

**BH·BL**



CENTRAL  
SCHOOL  
DISTRICT

# CURRICULUM GUIDE

2024-2025



# ABOUT BH-BL



The Burnt Hills-Ballston Lake School District is proud to be one of the top performing school districts in the Greater Capital Region of New York State.

We have a long history of stability and excellence in education and of residents and staff working together. The district began in 1915, when three one-room school houses joined forces and became New York's first ever "consolidated" school district.

Our five schools have achieved an enviable record of pupil performance, staff accountability, and program efficiency. They have also been named National Schools of Excellence, National Exemplary Schools, and BH-BL High School has repeatedly been named a Reward School. These accomplishments are a reflection of students who are intelligent and willing to work hard, parents who value education and push their children to excel, and a community that demands outstanding schools. These accomplishments are also a reflection of staff who emphasize basic skills and work to improve programs annually, yet recognize the need to work within a budget.

We work hard to ensure our students are provided with extensive extra-curricular programs, a wide variety of clubs and athletic offerings, and numerous art- and music-related opportunities.

Located within both Schenectady and Saratoga Counties, the district serves a suburban and rural area of approximately 40 square miles and includes parts of the towns of Ballston, Charlton, Clifton Park, and Glenville. Modern residential developments are mixed in among the working farms, apple orchards, and lake front property surrounding Ballston Lake.

The proximity to educational, cultural, social, and outdoor activities makes BH-BL a popular place for families to settle. It's an easy commute to the cultural centers and employers in neighboring Schenectady, Albany, and Saratoga Springs. Major shopping malls, restaurants, theaters, and sporting facilities are only 15 to 30 minutes from the school district.

The BH-BL area also includes many houses of worship, excellent community libraries, a fully equipped YMCA, and several parks with playing fields, tennis courts, ice rinks, and hiking and ski trails.

Among the many different local activities and events, the community comes together during the holiday season for a tree lighting ceremony and holiday concert, as well as a community-wide parade on Flag Day.

## District by the NUMBERS

**3,093** Total students in Grades K-12

**595** Faculty & Staff

**\$81.5 M** 2023-24 Budget



**98%** Graduation rate



**89%** of the class of 2023 pursued higher education at colleges and universities in 18 states



**Top 10** ranking among Albany, NY Metro area schools from US News & World Report



**85** student musicians were selected to perform in prestigious county and state music festivals



**34** clubs at the High School



**33** Varsity Athletic Teams



**738** students participated in at least one inter-scholastic athletic team last school year



**\$112M** will be invested in renovations and new construction by 2029.





# District Highlights

## Burnt Hills-Ballston Lake CENTRAL SCHOOLS

*Ensuring opportunities for learning, personal growth and social responsibility*

PO Box 1389, Ballston Lake, NY 12019

(518) 399-9141, ext. 85002

(518) 399-1882 fax

Dr. Patrick McGrath, *Superintendent*

Dr. David Collins, *Assistant Superintendent  
for Curriculum & Instruction*

Dr. Christopher Abdoo, *Assistant Superintendent  
for Support Services*

The Burnt Hills-Ballston Lake Central School District does not discriminate on the basis of sex, race, national origin, or handicap in its employment or the educational programs it operates. Inquiries concerning this policy should be made to the Title IX Coordinator Michael Nickson, PO Box 1389, Ballston Lake, NY 12019.

This Curriculum Guide was produced in cooperation with the Capital Region BOCES Communications Service.

Editors & Photographers: Tara Mitchell & Lindsay Quackenbush

### ACADEMICS

- For the past 12 years, more than 50 high school students were recognized as commended students by the National Merit Scholarship program.
- Students involved in the Advanced Topics in Computer Science course have worked on developing user code for the computer science department of the University of North Carolina at Charlotte through the University's BRIDGES project.
- The school's Work-Based Learning Program, which includes Career Exploration Internship, Work Experience, and Corporate Sponsors programs, partnered with more than 80 businesses, organizations, and mentors to provide real-world internships/work experiences for students. Multiple students have been offered full or part-time jobs upon completion of their work experience.
- Students in the school's Science Research Program were once again recognized for their participation and research skills at both the NYS and Eastern Regional levels. Recent graduates have presented their projects nationwide at events in Albuquerque, Atlanta, and Boston.
- The FIRST Robotics team continues to participate in both local and regional competitions, and performs outreach and introductory programs to students across the district.
- The FACS department continues their partnerships with Habitat ReStore of Schenectady County. Housing and Design students redesign and refurbish previously unsellable furniture to produce high-quality items available for resale.

- Interact Club continued their involvement in the annual holiday food drive with a coalition of interfaith churches and CAPTAIN CHS. In 2023, students collected over 5,000 non-perishable items for local families in need.
- For the first time, a team of high school students represented BH-BL in the annual Model United Nations competition, joining students from 48 states and more than 130 UN member nations.

### MUSIC & ART

- For 11 consecutive years, BH-BL has been one of approximately 600 schools nationwide to be recognized as a Best Community for Music Education district by the NAMM Foundation.
- In 2022-23, 30 BH-BL musicians were chosen to perform in All-County Festivals.
- BH-BL students' artwork was featured in virtual and live exhibitions.
- BH-BL students' musical performances are now live streamed and featured on the district's YouTube channel.

### ATHLETICS

- In 2022-23, nine teams were suburban council divisional champs, five teams were sectional finalists, eight teams won sectional titles, two relay teams and one team won state titles.
- BH-BL was once again recognized as a Scholar-Athlete School of Excellence.

## PROFILE of the CLASS OF 2023

Regents Diploma VS Local Diploma BREAKDOWN	POST-GRADUATION PLANS	SAT TESTING CLASS OF 2022 MEAN SCORES						
<p>Total diplomas granted = <b>204*</b></p> <p>Graduates earning a Regents diploma or better: <b>99.5%</b></p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; border-right: 1px dashed black; padding: 5px;"> <p>Those earning an Advanced Regents diploma or better: <b>61%</b></p> </td> <td style="width: 50%; padding: 5px;"> <p>Those earning an Advanced Regents with a BH-BL Merit seal: <b>52%</b></p> </td> </tr> </table>	<p>Those earning an Advanced Regents diploma or better: <b>61%</b></p>	<p>Those earning an Advanced Regents with a BH-BL Merit seal: <b>52%</b></p>	<p>Members of the Class of 2023 pursued higher education at colleges and universities in 16 states, the District of Columbia, and Canada.</p> <div style="text-align: center;"> <p>Total to Higher Ed. <b>89%</b></p> <p>4-YR. COLLEGES <b>61%</b></p> <p>2-YR. COLLEGES <b>28%</b></p> </div>	<p><b>Reasoning Tests:</b></p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 70%;">Mathematics</td> <td style="text-align: right;">600</td> </tr> <tr> <td>Evidence-Based Reading/Writing</td> <td style="text-align: right;">590</td> </tr> </table>	Mathematics	600	Evidence-Based Reading/Writing	590
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Mathematics	600							
Evidence-Based Reading/Writing	590							

\* One additional student received SACC/CDOS certificates.

## Burnt Hills-Ballston Lake HIGH SCHOOL



Recognized by the United States  
Department of Education as a  
National Exemplary School

Accredited by the NY State Board of Regents  
and the Middle States Association of Schools  
& Colleges

88 Lakehill Road, Burnt Hills, NY 12027  
(518) 399-9141, ext. 83300  
(518) 399-4341 fax

Timothy Brunson, *Principal*

Tom DiAcetis *Assistant Principal*

Neil Estrada, *Assistant Principal*

Kerry Austin, Erin Hogan, Jennifer Raucci,

Russell Weinlein, *School Counselors*

### Stay Connected


Follow us @BHBLschools



**Burnt Hills Ballston Lake  
Central School District**



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

Curriculum Guide Key:  This symbol means it is Distance Learning course and is offered to other districts through the NERIC Distance Learning Network (see page 10).

Note to Students and Parents: The high school hopes to offer all the courses described in this Curriculum Guide during the 2024-25 school year, but some courses may get cancelled due to insufficient enrollment, scheduling conflicts, or budget constraints. Additionally, Regents/Common Core exam requirements are subject to change based on Board of Regents decisions. Please see your school counselor for the most recent updates.

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# Partnerships & Opportunities for a Successful Future

At Burnt Hills-Ballston Lake High School, we pride ourselves on being one of the top districts in the Capital Region. We believe our stellar academic program plays a major role in this distinction. As such we continue to strive to offer courses

that are enhanced through a variety of programs and local partnerships, and that introduce our students to real-world settings and environments as a way to better prepare them for the rigors of college and 21st-century careers.



Science, technology, engineering, and math—or STEM, as it is known in education circles—are rapidly growing fields of study. Yet, BH-BL also considers the arts to play an integral role in this foursome because of the creative and visual nature of these fields. As a result, BH-BL uses the acronym STEAM when referring to the many programs and courses developed over the years to accommodate these fields of study. STEAM is also connected to the broader academic program at BH-BL that has long been focused on preparing students to be critical thinkers, problem solvers, and global citizens across all academic departments. When coupled with an excellent academic program, STEAM opportunities bolster students' experiences and exposure to real-world scenarios and better prepares them for the rigors of college and the demands of high-tech careers.

## Popular STEAM-related Courses

- Computer-Aided Drawing & 3D Solid Modeling (p. 43)
- Computer Science Principles (p. 18)
- JAVA Programming (p. 18)
- Digital Art (p. 30)
- Forensic Science (p. 38)
- Introduction to Engineering & Technology (p. 42)
- Advanced Materials Process and Manufacturing (p. 44)
- Principles of Engineering (p. 44)
- Robotics (p. 44)
- Homeownership & Renovation (p. 43)
- Technical & Digital Photography (p. 44)

## STEAM Experiences

- **FIRST Technology Challenge.** As part of the Robotics course, students build and program a robot to compete in the internationally recognized FIRST Robotics Competitions. BH-BL's high school team has succeeded at both regional and national levels. See page 35 for the Robotics course description.
- **The Science Research Program** partners with such institutions as Albany Medical College, Wadsworth Labs, Columbia University, Albany College of Pharmacy as well as RPI, Skidmore and Cornell to further prepare students for post-graduate study and careers in the fields of science, technology, engineering, arts and math. Students work with professors or industry professionals in a one-on-one capacity in real-world labs and settings.



# Humanities



The study of the humanities provides a sound toolkit for personal and professional success: how to communicate what we think; how to interpret what we read, see and hear; and how to understand and respond to difference. Humanities are unique in their potential to help students develop the skills and wisdom needed to thrive in the digitized, globalized, discovery-driven economy of the 21st century. There have always been, and will continue to be, important and highly valued careers in the field of humanities, which is why for years BH-BL has offered students an array of courses and programs with a humanities theme.

## POPULAR HUMANITIES COURSES

- Adolescent Psychology (p. 24)
- Criminology (p. 39)
- Fleur de Lis: French Language & Culture in North America (p. 45)
- German Character and Culture (p. 46)
- La Paella de Cultura (p. 45)
- Mandarin Chinese (p. 46)
- Literature & Politics (p. 22)
- Psychology (p. 40)
- Public Speaking (p. 21)

- Science Fiction: Advancing One Step Beyond (p. 21)
- Sociology (p. 40)
- The American Experience (p. 21)
- Philosophy and Literature (p. 22)

## HUMANITIES EXPERIENCES

- **PEACE Exchange Program.** For more than 30 years, BH-BL has been sending students (and, in turn, welcoming students) from France, Germany, and Spain for an in-depth, three-week program where students receive a first-hand experience of the cultural, social, and academic life of another country.
- **Diversity Program.** BH-BL has participated in a diversity program for more than 20 years. Through the Schenectady County Study Circles/Schenectady County Embraces Diversity program students get to know one another, consider different points of view, explore disagreements, find common ground, and work together to take action on issues they care about.
- **Community Service.** For more than 20 years, BH-BL seniors have been involved in the heartfelt and patriotic Vietnam Veterans "Stand Down" community service event. Students work with staff to organize and participate in this annual event for veterans across the Capital Region.



# College Credit Opportunities



There are two methods by which BH-BL students can earn college credit for courses taken right at our high school.

## ADVANCED PLACEMENT

These are courses that typically follow a nationally standardized curriculum and culminate in an Advanced Placement exam (AP), for which a fee is charged. AP courses offered at BH-BL are:

- AP Biology\*
- AP Calculus AB\*
- AP Calculus BC\*
- AP Chemistry\*
- AP Computer Science\*
- AP Computer Science Principles
- AP English: Literature & Composition
- AP Environmental Science\*
- AP European History\*
- AP Macroeconomics
- AP Statistics\*
- AP US History\*
- AP US Government & Politics\*
- AP World History: Modern

\* students may pursue college credits

## AGREEMENTS WITH SPECIFIC COLLEGES

BH-BL High School administrators also have agreements with several colleges that will grant credit hours for specific courses we offer since our course is essentially equivalent to theirs.

Students successfully completing the BH-BL course and paying tuition will have a number of college credit hours to add to their resumé. Many times other colleges will accept these credits. For more details, see your guidance counselor and the course descriptions on the following pages for:

- Public Speaking (SCCC, pg. 21)
- College Composition (SCCC, pg. 22)
- AP U.S. History (SCCC, pg. 38)
- AP US Government & Politics (SCCC, pg. 39)
- AP European History (SCCC, pg. 40)
- College Algebra (SCCC, pg. 33)
- Statistics (SUNY Albany, pg. 33)
- AP Statistics (SCCC, pg. 33)
- Precalculus (SUNY Albany, pg. 32)

- Honors Precalculus (SUNY Albany, pg. 32)
- AP Calculus AB (SCCC, pg. 33)
- AP Calculus BC (SCCC, pg. 33)
- AP Computer Science (SCCC, pg. 18)
- AP Computer Science Principles (SCCC, pg. 18)
- Honors Chemistry (SCCC, pg. 36)
- Science Research (SUNY Albany, pg. 35)
- AP Biology (SCCC, pg. 37)
- Honors Physics (SCCC, pg. 37)
- Environmental Science (SCCC, pg. 36)
- AP Environmental Science (SUNY ESF, pg. 37)
- AP Chemistry (SCCC, pg. 37)
- La Paella de Cultura (SUNY Oswego, pg. 45)
- ¡Temas y Tapas! (SUNY Oswego, pg. 45)
- Fleur de Lis: French Language & Culture in North America (SUNY Oswego, pg. 45)
- Langue et Culture Françaises (Also known as Shaping of Contemporary France) (SUNY Oswego, pg. 45)
- Du Bist Deutschland (SUNY Oswego, pg. 45)
- German Character & Culture (SUNY Oswego, pg. 46)
- Health (Russell Sage, pg. 30)
- Mandarin II Chinese (Carnegie, pg. 46)
- Music Theory (SUNY Albany, pg. 26)
- Advanced Drawing (Sage, pg. 28)
- Advanced Ceramics (Sage, pg. 28)
- Advanced Digital Art & Design (Sage, pg. 29)
- Accounting (pg. 16)
- Business Law (SCCC, pg. 16)
- Marketing & Management (SCCC, pg. 17)
- Child Psychology & Development (SCCC, pg. 24)
- Computer Aided Drawing 1 and 2 (HVCC, pg. 42)
- Networking Technology (CISCO Systems) (SCCC, pg. 43)

**Important!** Colleges vary widely on the types of credit they grant and the grade or score required for such credit. For example, some accept a score of 3 on an AP exam, while others require a 4 or 5. For more information, seek details from the college you wish to attend.



# Eligibility

NCAA APPROVED COURSES

NCAA



## English

- American Experience
- American Literature
- AP English: Literature & Composition
- British Literature
- College Composition
- Creative Writing/Composition
- English 9
- English 10
- Honors American Literature
- Honors English 9
- Honors English 10
- Journalism
- Licit & Illicit Literature
- Literature of Film
- Literature & Politics
- Philosophy & Literature
- Public Speaking
- Readers' Workshop
- Science Fiction
- Shakespeare
- Short Story

## Mathematics

- AP Calculus AB
- AP Calculus BC
- AP Statistics
- Algebra
- Algebra A (0.5 credit)
- Algebra B (0.5 credit)
- Algebra 2
- Algebra 2A (0.5 credit)
- Algebra 2B (0.5 credit)
- Algebra 2 Honors
- College Algebra
- Geometry
- Geometry Honors
- Precalculus
- Precalculus Honors
- Statistics

## Science

- AP Biology
- AP Chemistry
- AP Environmental Science
- Biology
- Chemistry
- Honors Chemistry
- Earth Science
- Environmental Science
- Forensic Science
- Introductory Physics
- Physics
- Honors Physics
- Science Research

## Social Science

- AP European History
- AP Macroeconomics
- AP US History
- AP World History
- Criminology
- Economics
- Global History I
- Global History II
- Participation in Government
- Psychology
- Sociology
- Topics in US Military History

## Other Courses

- Du Bist Deutschland
- Fleur de Lis
- French I
- French II
- French III
- German I
- German II
- German III
- German Character & Culture
- La Paella de Cultura
- Mandarin I Chinese
- Mandarin II Chinese
- Langue et Culture Françaises (Also known as: Shaping of Contemporary France)
- Spanish I
- Spanish II
- Spanish III
- ¡Temas y Tapas!





# BH-BL + 1 Early College Program

**SUNY**  
SCHEENECTADY  
COUNTY COMMUNITY COLLEGE

For many years, Burnt Hills-Ballston Lake High School has offered its students a wide variety of Advanced Placement and College in High School (CHS) courses that allow them to earn college credit while still attending high school. The convenience and outcome of this opportunity has made it very popular and in high demand. A few years ago, BH-BL High School took this opportunity one step further when it launched the early college program, BH-BL+1. This program, in conjunction with Schenectady County Community College (SCCC), offers students the possibility of dual enrollment to earn an entire year of college credits in a general area of interest, while still earning a high school diploma. The

vision for BH-BL+1 is for students to graduate from high school with a SUNY transcript that could qualify them to enter college as a sophomore. Below are three potential programs of study at SCCC and the courses needed to complete the first year of college. After completing these courses at BH-BL, students can enter SCCC and complete an associate's degree in one year or directly transfer the courses into another college or university.

To learn more about the possibilities through BH-BL+1, please contact your guidance counselor. \*Due to master schedule conflicts, there is no guarantee students can be placed in every class they select.

## BUSINESS ADMINISTRATION

SCCC COURSES	CREDITS	BH-BL +1
College Composition	3	College Composition
US History I & II	6	AP History
Intro to Business Marketing & Management	6	Marketing & Management
Principles of Macroeconomics	3	AP Macroeconomics
Business Law I	3	Business Law
World Language	6	Tema/La Paella; Du Bist/German Culture; Fleur de Lis/French
Calculus I	3	AP Calculus AB
Statistics	3	Statistics
General Ed Science	3-4	AP Bio; AP Chemistry; Env. Sci; Honors Chem; Honors Physics; AP Env

**Total Credits: 30**

## LIBERAL ARTS: HUMANITIES & SOCIAL SCIENCES

SCCC COURSES	CREDITS	BH-BL +1
College Composition	3	College Composition
World Civilization	3	AP European History
World Language	6	Tema/La Paella; Du Bist/German Culture; Fleur de Lis/French
Math Elective	3	AP Statistics; College Algebra; Precalculus
US History I & II	6	AP US History
Science Elective	3-4	AP Bio; AP Chemistry; Env. Sci; Honors Chem; Honors Physics; AP Env
Behavioral Science	3	Child Psych
Social Studies	3	AP Euro History; AP US Gov & Politics

**Total Credits: 30**

## MATHEMATICS & SCIENCE

SCCC COURSES	CREDITS	BH-BL +1
General Chemistry I & II	6	AP Chemistry; Honors Chem
College Composition	3	College Composition
World Language	6	Tema/La Paella; Du Bist/German Culture; Fleur de Lis/French
Calculus	4	AP Calculus AB
Math Elective	3	AP Statistics; College Algebra; Precalculus
US History I & II	6	AP US History
Restricted Elective	4	AP Biology
Computer Info Systems	4	AP Computer Science

**Total Credits: 30**





## Early Assurance Program



BH-BL now supports an Early Assurance Program with Siena College to secure admission of qualified students to Siena to earn a BS and MBA degree—in four years.

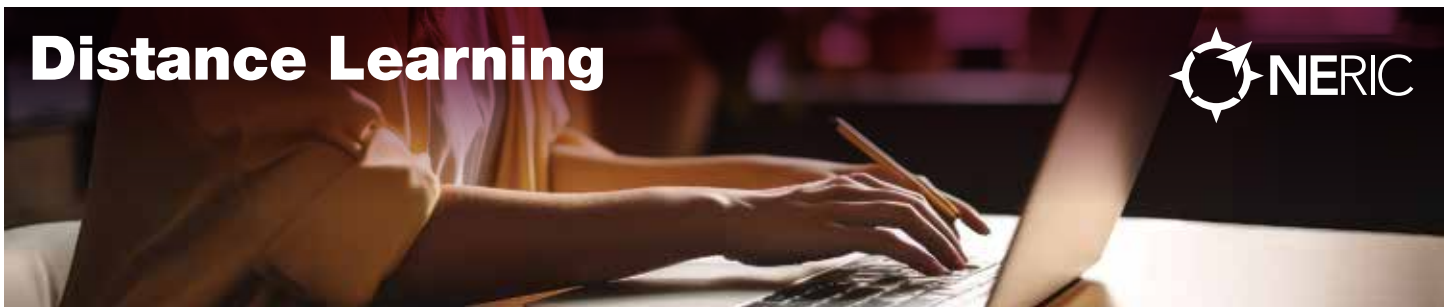
Eligible BH-BL students may apply for admission to Siena's School of Business as early as the tenth grade, based on their past and projected academic performance, to secure a seat for the customizable bachelor of science in business degree program, then a master of business administration, all within four years.

Students will need to complete Siena's free online application, including a short essay, requesting consideration to be admitted in the Early Assurance Program. Students must be on track to complete the required number of academic

units in English, social studies, math, laboratory science, and language. Students must also complete at least one college-level course through the Business Department at BH-BL.

There is also an accelerated track for students to earn both degrees in three years.

Students who are accepted to the Early Assurance Program will not be required to enroll or forgo application to other schools; rather they will be able to secure their admission and reserve a place at Siena. To remain in the program, students must earn a cumulative GPA of at least 3.0 to stay on track for the Siena MBA.



## Distance Learning



### NERIC DISTANCE LEARNING OPPORTUNITIES

**Grades 10, 11, 12**      **½ or 1 year**      **½ or 1 credit**

Burnt Hills-Ballston Lake High School joined the Northeast Regional Information Center (NERIC) Distance Learning Network in the 2017-18 school year. We created two new Distance Learning rooms as part of the district's 2013 renovations project. These rooms and accompanying technology give teachers the ability to deliver their curriculum to BH-BL students within the physical classroom while also broadcasting the course to students in other schools. The Distance Learning Network offers a catalog of courses for students, and BH-BL students may request to take courses

from the network that are not offered at BH-BL. Students enrolled in a Distance Learning Network course will connect with classmates remotely and foster connections beyond the walls of the classroom and BH-BL High School.

During the 2024-25 school year, more than two dozen BH-BL courses will be open to other school districts on the network. Courses that are offered on the network are noted in this guide with a computer (💻) symbol next the course credit line. Additional information about the Distance Learning Network and the courses offered can be found on the high school counseling section of our website.



# High School Counseling Program

## Planning Your Future



### Counseling Center Services

The High School Counseling Program is designed to enhance the academic, career, and social-emotional development of our students. School counselors provide students with comprehensive and developmentally appropriate activities, services, and counseling to maximize student success. School counselors help students apply academic achievement strategies, develop interpersonal skills, and explore career pathways. School counselors help set students on a path for postsecondary success including higher education, vocational training, military, and/or the workforce.

Each student is assigned a counselor for the duration of their high school career. Students and parents are encouraged to visit the Counseling Center pages on the BH-BL website or contact their child's counselor with questions or concerns.

### Course Load Requirements

Students must carry a minimum of five classes plus physical education each semester. Class and homeroom placement are based upon the number of credits previously earned. A student must have a minimum of 5.5 credits to be ranked as a sophomore; a total of 11 credits must be accumulated before the student is ranked as a junior; and 16 credits are required to be considered a senior.

### College Entrance Requirements

Colleges prefer a strong academic preparation in high school. Specific subject and grade point average requirements vary from one institution to another, as the institutions themselves vary in the programs they offer and the kinds of students they seek. Generally speaking, colleges prefer students who have completed:

- Four years of English & social studies
- Three to four years of mathematics
- Three to four years of science
- Two to three years of a world language

College-bound students who choose to drop one of these areas before they graduate should do so only after careful consideration. Teachers, counselors, and college admission officials can provide valuable information in these cases.

Taking a full academic program and obtaining a high level of achievement, together with activities to show the student is willing to participate in and contribute to the school or community, are the best ways to ensure a student will meet the requirements for college entrance. Students should check college bulletins and consult with their counselors for specific information as they make their choices.

### Courses Offering

#### College Credit

As shown on pages 6 and 7, there are three ways for BH-BL students to earn college credits while still in high school: through Advanced Placement (AP) exams, through agreements our school has with several colleges and through the new BH-BL+1 Early College Program. Students interested in taking any one of these college-level courses should consult with their teachers or school counselor.

Colleges have different policies when it comes to accepting credits earned during high school, so students and parents should contact colleges directly for information. Successful completion of an AP exam, for instance, may allow students to opt out of an otherwise required college course, to be placed in a more advanced college course or to receive college credit hours for work done in high school.

AP and college level courses are designed for students who demonstrate a high level of aptitude and academic success. Students recommended for these courses are highly motivated and demonstrate excellent academic achievement, classroom participation, high quality work, and a desire to be academically challenged. Students will demonstrate high performance on other standard indicators such as regents exams, final course grades, and final exam grades.

# Planning Your Future

## General Information



### Scheduling Timeline

Counselors meet with students in February and March to discuss academic progress, career goals, review their academic program and select courses for the following year. Course requests will be mailed home with final report cards. Any changes to these course requests should be made in early July.

Schedule changes are strongly discouraged once the school year is underway. However, there may be circumstances that precipitate a request to change courses. Below are the general guidelines. These guidelines may vary depending on the course and/or circumstance.

- The last day to switch or add a class is the Friday after the first full week of classes. Parent permission is needed for required courses.
- Level Changes - Students have until the end of Quarter 1 to change levels in a full year course (ex; Honors level to Regular level). Half-year course level changes should be made by the Friday after the first full week of classes.
- An elective course can be dropped for a study hall, as long as the student has enough credits in their schedule.
- All changes require counselor and administrative approval.

### Program Planning for Students

When you plan your high school program, you should take into consideration your special abilities, interests and goals. Your pattern of studies should be built around the courses and subjects required for graduation (see page 14), but it should go far beyond these. By carefully selecting electives that meet your needs and interests, you can work toward your own educational, career and technical and personal goals.



### Steps in Planning

1. Establish personal goals. Even though these may change, you should have some specific educational, career, and technical and personal objectives toward which you are working.
2. Evaluate your personal strengths, interests, aptitudes and needs.
3. Learn the typical entrance requirements for the kind of college or school or for the type of work you hope to pursue after graduation.
4. During 10th and 11th grade, take part in information nights and college fairs, and visit the colleges and vocational resources in which you are interested.
5. Consult your parents, teachers and counselor to benefit from their experiences and the information they can make available to you. Talk with others in the community who are working in the professions or vocations you are considering.
6. List the courses you would like to include in your high school study program. Choose those that will contribute most toward helping you achieve your goals.

### Exploring the Future

In planning your high school program, think about your hopes for the future. This is a time for learning as much about yourself as about the content of the courses you take. Pay close attention to what you like and what you do well. Think about how to apply that information to your future plans. Look for ways to try out ideas and suggestions about careers.

Both students and parents are encouraged to use Naviance Family Connection. This online program helps students explore academic, career, and college interests. Students can take a variety of assessments, do an interest profiler, search careers and do extensive college research. College bound students will use Naviance as part of the college application process so it is important to be familiar with the program. Students can log into Naviance using their Clever portal.

Several programs at BH-BL High School and local BOCES have been created with this goal in mind. They are programs that allow you to work directly and in a meaningful way in a variety of fields, to gain experience and knowledge about careers and about yourself. As you plan your high school program, you may wish to consider one of these programs, which are described later in this booklet:

- Career Exploration Internship Program
- Capital Region Career or Saratoga Career & Technical Education programs.



## Graduating in Less Than Four Years

BH-BL High School students may graduate in less than four years. The decision to do so should be made by parents and students based on the student's goals.

After parents and students have discussed the option thoroughly, they should consult the student's school counselor for a careful consideration of how such a decision could affect the student's future plans.

### Additional Information

Under some circumstances, a student may earn a maximum of 6-1/2 units of credit for a diploma without completing units of study as follows:

1. Based on the student's past record, the principal determines that the student will benefit academically by exercising this alternative; and
2. The student achieves a score of at least 85% on a Regents exam\* or on a second language proficiency test; and

3. The student passes an oral exam or successfully completes a special project approved by the State Education Department to demonstrate proficiency in the subject matter; and

4. The student attends school or receives substantially equivalent instruction elsewhere until the age of 16.

A student may obtain the required unit of credit in art and/or music by participation in exceptional situations in advanced out-of-school art or music activity. A course outline of the proposed study must be reviewed and approved by the art/music supervisor and the art/music teacher. The course must be consistent with the school's program and meet the equivalent time requirement. This alternative is not for private music study.

The student may obtain the required unit of credit by participation in a school's major performing organization such as orchestra, band or chorus.

\* Note: Specific requirements of laboratory time must be met for science credit.



To graduate from the Burnt Hills-Ballston Lake High School, students in the Classes of 2021 through 2025 must fulfill course and examination requirements as explained below.

In keeping with state and district standards, the high school offers three possible diplomas. All students are expected to challenge themselves and are required to work toward a Regents diploma as described below.

The eight-period alternate day block schedule requires ALL BLOCKS to be scheduled. Course selections and other options (such as the Learning Lab, Senior Release, Work Release, etc.) should be discussed carefully with your guidance counselor.

Unless otherwise noted in the departmental course listings that follow, a year-long course is equal to one credit toward graduation, and a semester course earns one-half credit.

## Sample Student Schedule for Grade 9 (Class of 2027)

- |   |  |
|---|--|
| English 9, Core English 9 or Honors English 9 | Language level 1 or level 2                      |
| Global History & Geography 1                  | Art/Music requirement                            |
| Earth Science, Biology, or Core Biology       | Elective (see course listings) and/or Study Hall |
| Algebra, Algebra A or Honors Geometry         | Physical Education 9 - 10                        |

## Course Requirements

Students must earn the following credits in order to graduate with one of three possible diplomas:

REGENTS DIPLOMA		ADVANCED REGENTS DIPLOMA		ADVANCED REGENTS DIPLOMA WITH BH-BL MERIT SEAL	
English	4	English	4	English	4
Social Studies	4	Social Studies	4	Social Studies	4
Math	3	Math	3	Math	4
Science	3	Science	3	Science	4
Art/Music	1	Art/Music	1	Art/Music	1
Health	0.5	Health	0.5	Health	0.5
Phys. Ed.	2	Phys. Ed.	2	Phys. Ed.	2
World Language	1	World Language**	3	World Language	3
Electives	3.5	Electives	1.5	Life Skills	1
Total of 5 exams*		Total of 9 exams*		Electives	2.5
<b>TOTAL CREDITS</b>	<b>22.0</b>	<b>TOTAL CREDITS</b>	<b>22.0</b>	<b>TOTAL CREDITS</b>	<b>26.0</b>

## Regents Requirements

Students must earn a minimum grade on ALL of the below listed Regents/Common Core Exams, which are subject to change based upon Board of Regents decisions.

### Regents Diploma\*

Total of 5 Regents with a grade of 65% or higher

- English
- Global Studies
- US History
- Algebra 1
- One Science exam

### Advanced Regents Diploma & Advanced Regents Diploma with BH-BL Merit Seal

Total of 8 Regents with a grade of 65% or higher

- English
- Global Studies
- US History
- Three Math exams
- Two Science exams
- World Language Level 3 Final Exam\*\*

**NOTES:** Life Skills courses are defined as those in technology education, family and consumer sciences, business education, computer education (with one-half unit of Computer Essentials strongly recommended) and fine arts classes beyond the one unit of art/music required for graduation. The school principal may approve appropriate course substitutions where schedule conflicts necessitate.

\* All students should seek to earn a Regents or Advanced Regents diploma, but students with an Individualized Education Plan (IEP) are also eligible to receive a Local diploma if they earn a grade of 55% or higher on five NY State Regents exams (English, Global Studies, US History, Algebra, and one science exam), OR if they successfully complete the NY state compensatory safety net option. Students should see their special education teacher or guidance counselor for detailed information regarding this option.

\*\*A student who completes a five-unit sequence in Career & Technical Education, Art, or Music in lieu of the World Language requirement may earn an Advanced Regents Diploma. Career & Technical Education includes courses in business education, family & consumer sciences, and technology education.





# Business Education



Business Education courses serve to prepare students for employment and offer life skills useful in high school, college and future work. If interested in completing the Business Administration Pathway and receive a CTE endorsement on your diploma, students must successfully complete the following requirements: Computer Essentials, Career and Financial Management I & II, and an approved Work-Based Learning course. Students must also complete two of the following courses: Marketing & Management, Accounting, College Accounting or Business Law. Senior year, students must pass a NOCTI Technical Assessment.

## PERSONAL FINANCE MANAGEMENT

**Grades 9, 10, 11, 12**     ½ year     ½ credit

This course is designed to promote financial literacy and provide students with financial fitness skills for life. Throughout this course, students will explore everything from how the economy works to personal finance topics including, money management and budgeting, building credit, and risk management. If you want to ensure a successful financial future, this is a course you won't want to miss out on!

## CAREER MANAGEMENT

**Grades 9, 10, 11, 12**     ½ year     ½ credit

Do you think about life after high school or ever asked yourself what is my next step in life: college, a trade school, military, the workforce? This decision is easier when you take the time to reflect on what interests, skills, and abilities you possess and what careers might be a good match for you. In this course, students will explore the endless career opportunities available to them as well as emerging workplace trends. In addition, students will develop essential employment skills, including resume and cover letter writing, interviewing, communication, leadership and teamwork, as well as create a professional portfolio. Take the first step towards building your future! Take the first step towards building your future!

## COMPUTER ESSENTIALS

**Grades 9, 10, 11, 12**     ½ year     ½ credit

The most useful class you will ever take! Students will learn how to use computer programs such as Google Programs to enhance their ability to complete assignments during their high school career and beyond. Touch typing will be emphasized. In addition, students will learn cyber-safety skills, social networking, email, and professional

documentation. BH-BL graduates have rated this course as one of the most important and useful courses they took in high school. This course is comprised of 20 percent keyboarding and 80 percent software applications.

## ACCOUNTING

**Grades 11, 12**     1 year     1 credit  
3 CHS credits

Majoring in Business in college? You will need to take Accounting. This course is an introduction to accounting terminology, and the analysis and application of financial knowledge. The students will learn about the application of financial systems. Topics will include: nature of assets, liabilities and equity; the recording and reporting cycle, financial reporting, and financial reporting standards. Students will be exposed to computer applications, cooperative learning, ethical issues, accounting careers, and will develop transferable skills. Students who successfully complete this course and pay a fee will receive three college credits.

## BUSINESS LAW

**Grades 10, 11, 12**     ½ year     ½ credit  
3 CHS credits offered through SCCC

This college credit-bearing course emphasizes law as it applies to one's personal, family and occupational life. Field trips and guest speakers enhance classroom learning. Students examine common legal situations involving civil law (torts), criminal law and contract law. College-bound students, particularly those thinking of Business Administration or Accounting degrees, will find this course indispensable.

## ENTREPRENEURSHIP

**Grades 9, 10, 11, 12**     ½ year     ½ credit

Interested in owning your own business? Entrepreneurship is the course for you! Learn how to structure a business, obtain financing, advertise, select a location and more. Students will identify and research a problem and develop an entrepreneurial business venture to solve the problem. Students will present their semester-long business venture projects at the conclusion of the semester in a Shark Tank style competition.



## Business Education, continued

### ENTERTAINMENT MARKETING

Grades 11, 12      ½ year      ½ credit

Motion pictures, music, art, video games, theme parks and television marketing is one of the most exciting, unpredictable and rewarding careers a marketer can choose. From understanding and developing audiences to creating eye-catching promotional artwork, it's all about putting customers into theater seats and buying eyes in front of televisions and computer screens. Course projects include—but are not limited to—restaurant theming, amusement ride development, music/movie legend exploration, and “create the next Grammy Winner for Best New Artist.” Students will also have the opportunity for hands-on experience in our video production studio. This is an in-depth, practical class for students interested in marketing and the entertainment industry.

### INTERNATIONAL BUSINESS

Grades 10, 11, 12      ½ year      ½ credit

*Offered in spring 2024 and spring 2025*

The Capital Region continues to attract businesses from all over the world. International Business includes all business activities needed to create, ship and sell goods and services across national borders. This course will focus on theories that can be applied to doing business with any country outside the U.S. and the specific culture, etiquette, protocol and behavior styles of countries around the world. Students will have the opportunity to pitch a business that would be successful in each country studied.

### INVESTING 101

Grades 10, 11, 12      ½ year      ½ credit

This is a chance to cash in by acquiring the knowledge to help make money! Students will learn about the Stock Market, Investing Sectors, Mutual Funds, Bonds, Compound Interest, Future Options, Crypto currency and the regulatory environment.. Start now on the road to financial literacy! Students will participate in the regional Stock Market Game and compete against other schools.

### MARKETING & MANAGEMENT

Grades 10, 11, 12      1 year      1 credit

*6 CHS credits offered through SCCC*

Are you thinking of pursuing a business/management career or maybe owning your own business someday? This college credit-bearing course focuses on different types of businesses, management and leadership theories, marketing and advertising, and managing and operating a small business. Students will also create commercials, design products, understand promotion and publicity, and develop pricing strategies. Highlights of the course include creating an advertising campaign for a community business and having hands-on experience in our video production studio.



College-bound students are encouraged to take this course to strengthen their management and leadership skills.

### SPORTS MARKETING

Grades 10, 11, 12      ½ year      ½ credit

Learn to think like a sports manager and solve problems related to the sports industry with an emphasis on event planning, scheduling, budgeting and promotion. Sports theories and philosophies, as well as leadership styles will be explored. Topics covered include legends in sports, press conferences, ethics and NCAA guidelines. Careers in sports marketing and management will be discussed. This course will provide students with an understanding of sports as a business.

### MULTIMEDIA FOR BUSINESS

Grades 9, 10, 11, 12      ½ year      ½ credit

As experts in business, students will act as multimedia specialists to create campaigns using strategies that mirror industry standards in the field of business. The production studio in the business education department will be the backdrop for real-life simulations. WeVideo and Adobe Express will be used to create marketing campaigns. Students will work both individually and in teams as they learn how to apply the technology and software for media creation, distribution and evaluation within the world of business. Topics include, but are not limited to, marketing through social media, TV commercial production, infomercial production, fundamentals of multimedia production, business communication techniques and marketing/business fundamentals.

# Computer Science Department



Computer science plays a significant role in nearly all aspects of our daily lives from medicine, education, and business to entertainment and politics. Our comprehensive sequence of courses develops the foundational skills needed for understanding, using, and creating new technologies that solve problems in the 21st century, no matter the student's primary area of interest for college and career.

## EXPLORING COMPUTER SCIENCE

**Grades 9, 10, 11, 12**    **1 year**    **1 credit** 

This is an introductory course for students with minimal prior experience in computer science. The course presents an overview of the history, principles, and transformative applications of computer science, as well as a comprehensive introduction to programming. Students will start by programming in Netsblox, a friendly graphical language that will allow them to express themselves by creating interactive games, animations, and stories, while learning the fundamentals of computer programming. Students will continue to develop their programming and problem solving skills using the text-based language Python. Finally, students will learn how to design their own website using HTML, CSS, and JavaScript.

## COMPUTER SCIENCE PRINCIPLES

**Grades 9, 10, 11, 12**    **1 year**    **1 credit** 

Almost every aspect of daily life is supported by or enabled through computer science. In this course, students will learn the underlying principles of computation. Through hands-on laboratory and project-based experiences, students develop significant programming skills and understanding of computing's impact on society. Student work addresses real-world problems and leads to the creation of relevant solutions. Students explore computer science's influence on the arts, sciences, and business, as well as social and economic change. This engaging, problem based course develops problem solving, computational thinking, and algorithmic development skills. *Prerequisite: Algebra*

## AP COMPUTER SCIENCE PRINCIPLES

**Grades 9, 10, 11, 12**    **1 year**    **1 credit** 

*3 CHS credits offered through SCCC*

This is the AP version of the Computer Science Principles course. In this college-level introduction to computer science, students learn underlying principles of computation through creation of computing applications that address real

world problems. Hands-on laboratory and project-based experience develop students' understanding of abstraction, algorithms, cyber security, programming, large data sets, and the Internet. Students explore computer science's influence on the arts, sciences, and business, as well as social and economic change. An emphasis is placed on developing problem-solving skills, as well as computational and algorithmic thinking skills. In accordance with AP requirements, students will complete an in-class portfolio assignments and take the AP exam in May. Colleges may grant credit or advanced placement based on AP exam results. *Prerequisite: Algebra.*

## AP COMPUTER SCIENCE A (JAVA PROGRAMMING)

**Grades 10-12**    **1 year**    **1 credit** 

*3 CHS credits offered through SCCC*

Through hands-on labs and project-based experiences, students learn to design and implement programs in Java that solve complex computing problems relevant to today's society. This includes the development and analysis of algorithms and fundamental data structures, and the use of logic and formal methods. Students who take the AP CS A course and exam are well prepared to pursue computer science and its integration into a wide array of computing and STEM-related fields. Students take the AP exam in May. Colleges may grant credit or advanced placement based on exam results. *Prerequisite: Computer Science Principles or AP Computer Science Principles.*

## ADVANCED TOPICS IN COMPUTER SCIENCE

**Grades 11-12**    **1 year**    **1 credit** 

This course begins as an extension to AP Computer Science A, engaging students in solving increasingly complex problems using the Java programming language and in the study of data structures. The course then extends out to other languages and emerging fields of computer science. For example, these may include SQL and dynamic web programming, data science, and machine learning. Students complete a capstone project in an area of their choice. *Prerequisite: AP Computer Science A (Java Programming).*

# English Department



## GENERAL EDUCATION ENGLISH COURSES

### ENGLISH 9

Grade 9                      1 year                      1 credit

Most ninth graders take this comprehensive English course. They will read, discuss and write about short stories, novels, poems, plays, and works of true experience, including *To Kill a Mockingbird*, *Of Mice and Men*, *Romeo and Juliet*, and *Speak*. Students will write a variety of analytic and research-based papers, focusing on literary analysis and argument writing. In addition, students will have multiple opportunities to improve their vocabulary and their speaking and listening skills.

### CORE ENGLISH 9

Grade 9                      1 year                      1 credit

This course is designed to provide support and remediation in basic reading and writing skills. Using short stories, novels, poems, plays, and works of true experience, students will work on developing proficiency in the NYS Language Arts Standards. Students will do many of the same tasks listed for English 9, but the materials and the sequencing of the tasks may differ.

### HONORS ENGLISH 9

Grade 9                      1 year                      1 credit

Honors English 9 is a 40-week course designed to enhance the common 9th grade curriculum. Students will read *To Kill a Mockingbird*, *Of Mice and Men*, *Speak*, *Macbeth*, short stories, poetry, and will participate in a literature circle unit. In addition, students will write two mini research papers, memoir, fictional short story, poetry, journals, argument-based essays, and text-based analyses. Students are also required to complete three outside reading assignments.

### ENGLISH 10

Grade 10                      1 year                      1 credit

All tenth graders not recommended for Core or Honors English 10 will take this full-year course. There are two distinct sections of the course: analysis and interpretation of novels, short stories, plays, and poetry; and integration of the writing process into both analytic and creative writing pieces. Students will be challenged as readers, writers and thinkers as they explore some of the greatest literature of the last hundred years and plumb the depths of their own ideas and language. Additionally, students will learn to evaluate their own and other students' writing by engaging in all facets of the writing process.

### CORE ENGLISH 10

Grade 10                      1 year                      1 credit

This course will provide support and remediation in basic reading and writing skills. Students will work on developing proficiency in the NY State Language Arts Standards. Students will do many of the same tasks listed for English 10, but the materials and the sequencing of the tasks may differ.

*Prerequisite: Recommendation from previous English teacher*

### HONORS ENGLISH 10

Grade 10                      1 year                      1 credit

Honors English 10 provides a challenging course for students seeking World Literature texts to complement the curricula of AP World and Global History. Honors English 10 provides a 40-week full credit of English for sophomore students and integrates thematic coverage in order to bridge historical and literary worlds. Texts are selected and tasks are crafted to supplement the following units: comprehensive insight into identity; technology; peopling; politics and power; America in the world; environment and geography; physical and human ideas; beliefs; and culture. *Prerequisite: Recommendation from previous English teacher*





## English Department, continued

## ENGLISH ELECTIVES

**AMERICAN LITERATURE**

Grade 11      ½ year      ½ credit

This course is required of all students who have successfully completed English 10. Students will read, discuss, analyze, interpret and write about important American literature and trace main ideas in American literature. Students will choose an elective or an advanced elective to complete their junior English requirement.

**CORE AMERICAN LITERATURE**

Grade 11      1 year      1 credit

This course is designed for juniors who have successfully completed Core English 10 or English 10. In the first 20 weeks, students will read, discuss, analyze, interpret, and write about important works of American literature. There will be intensive review of the tasks and format of the Regents examination in English Language Arts, which all juniors need to pass for graduation. The second 20 weeks will sample from our rich collection of elective courses. *Prerequisite:* *Recommendation from previous English teacher*

**HONORS AMERICAN LITERATURE**

Grade 11      ½ year      ½ credit

This is a 20-week course designed for juniors who have successfully completed Honors English 10. Students will read, discuss, analyze, interpret and write about significant American literature including *The Scarlet Letter*, *The Great Gatsby*, *The Crucible*, and a variety of fiction and poetry that reflects the thematic and stylistic growth of our nation and its written word. Recommendation from previous English teacher is required.

**READER'S WORKSHOP**

Grades 10, 11, 12      ½ year      ½ credit

Do you want to read more books by your favorite author?  
Do you want time and credit for reading what interests you?

Reader's Workshop is a course designed to give students an opportunity to read literature types and subjects that they might not meet in other literature courses. In this course students create self-directed reading projects, make independent choices of reading materials and experiment with different kinds of responses to and evaluations of their reading.

**JOURNALISM**

Grades 10, 11, 12      ½ year      ½ credit

Journalism is an intensive writing course developed around the genres of features, editorials, reviews, columns and news stories. In preparing publication-quality pieces, students will improve their writing and their skills regarding organization, paragraph development, sentence variety and usage. Students must be comfortable gathering information using both interviews and intensive research, and must be able to frame and complete long-term, self-directed assignments.

**CREATIVE WRITING/COMPOSITION**

Grades 11, 12      ½ year      ½ credit

Students may pick a theme or issue to pursue throughout the semester and read related fiction or nonfiction. Both creative writing and college essay writing will be explored. In addition, groups will be formed for editing and evaluation. Students will work in the areas of grammar, usage and vocabulary development. This course provides opportunities to work in the areas covered by the NYS Standards: writing for information and understanding; writing for literary response and expression; writing for critical analysis and evaluation; and writing for social interaction.

**SHORT STORY**

Grades 11, 12      ½ year      ½ credit

Everyone loves a good story! In this course, students will read a wide variety of short stories. In addition, they will be introduced to a number of literary strategies that will help them learn to think critically about the stories and to develop their interpretive skills. Students will also have a chance to try their hand at a variety of writing tasks, including short story writing.

**THE NARRATIVE OF SPORTS**

Grades 11, 12      ½ year      ½ credit

Pop culture, professional athletes, Olympians, student athletes, and even youth-sports participants all live under the same mythology of sport. The common narrative associated with it is powerful, but is also changing. How, why, and in what ways is the story of sports changing? How will alterations in this fabric of larger societal narrative affect the overall story we tell ourselves about our culture? Using contemporary sports-related articles, *30 for 30* documentary films and a variety of fiction and nonfiction texts, students will explore their own world and world view through the lens of competitive athletics.

## English Department, continued

### THE AMERICAN EXPERIENCE

Grades 11, 12      ½ year      ½ credit

Students will gain an understanding of what it means to grow up in American culture and be part of the largest cultural stew pot of the modern world. Students will read works from a variety of American perspectives and choose units as a class that they wish to study. Texts will vary in style, voice, length, genre and author's ethnicity, and offer student-driven narratives. Media is integrated in all units through the study of film, podcasts, and music. Assessments include formal writing, projects, film analysis, online writing and presentations. Students will be expected to confront their own preconceived notions of the larger world around them and contribute their own unique American experience.

### ENGLISH IN THE 21<sup>ST</sup> CENTURY

Grades 11, 12      ½ year      ½ credit

In this course, we will take in information using a wide variety of sources (articles, podcasts, movies, videos, historical and current events) and apply them to our emerging world view. The unifying thread? We live in a digital world, and most humans consume information from a wider variety of sources than novels, plays and books of poetry. Since we all collect and process information to help us understand ourselves and others, we need to give time and attention to sharpening our ability to navigate this rapidly changing world. To this end, English in the 21<sup>st</sup> Century is a course designed to develop and sharpen our critical thinking and discussion skills.

### LICIT & ILLICIT LITERATURE

Grades 11, 12      ½ year      ½ credit

The world around us contains justice and injustice, law and lawlessness, and order and chaos. Students of varied ability levels, interests and viewpoints are encouraged to take the course to learn to be tolerant and receptive to different opinions. The literature will reflect both traditional and contemporary thought.

### SCIENCE FICTION: ADVANCING ONE STEP BEYOND

Grades 11, 12      ½ year      ½ credit

When does a society become oversaturated with technology? Could technology eventually replace humanity? How will our colonizing spirit and presence on alternate environments in space affect the pre-existing universal balance? This course explores these potential scenarios as well as many others through literature, film and intensive critical analysis and discussion. This course is perfect for any students who have pondered any of the aforementioned and are intrigued by the possibilities of "advancing one step beyond." A limited number of sections of this course will be offered and seniors are given priority.



### LITERATURE OF FILM

Grade 12      ½ year      ½ credit

In this course, students will explore and analyze critically acclaimed films. They will think about them, read about them and write about them through a variety of lenses. Individually and in peer discussion, students will learn to distinguish between what's well-made and what isn't, and discover how films challenge—and even shape—our beliefs. This course is for all students who are interested in analyzing and *writing about* all components of what makes film culture thrive.

### PUBLIC SPEAKING

Grade 12      ½ year      ½ credit

3 CHS credits offered through SCCC

The most important skill you can learn as a young adult is the ability to think and speak in front of others. In this course students will learn to see themselves as others see them and to make the most of who they are and what they have. Students who are reluctant speakers will gain confidence. Students who are accomplished speakers will polish their skills. Students will learn communication theory, speech, writing skills, audience assessment techniques and personal evaluation tools. Students can earn college credit while evolving as speakers, writers, and human beings.

## English Department, continued

## ADVANCED ENGLISH ELECTIVES

**LITERATURE & POLITICS**

Grades 10, 11, 12      ½ year      ½ credit

A “must” course for college-bound juniors and seniors. The readings, papers, lectures and discussions will examine relationships between individuals, an individual and a group, as well as between groups. In addition to assigned novels, short stories and essays, periodical reading will present contemporary issues for comparison. *Prerequisite: Recommendation from previous English teacher*

**PHILOSOPHY AND LITERATURE**

Grades 10, 11, 12      ½ year      ½ credit

This class will consider the challenges and questions that arise at the intersection of literature and philosophy. Texts and coursework include literature and activities that unpack the great existential concerns of the modern human experience. We will read literature that has philosophical qualities and philosophies with literary qualities, and both will force us to question the nature of the world and our place in it. This course will be run with the expectations and the freedoms of a college course, so students who register will need to be self-motivated contributors to our collective understanding of the challenging texts and questions that comprise the curriculum. *Prerequisite: Recommendation from previous English teacher*

**BRITISH LITERATURE**

Grades 10, 11, 12      ½ year      ½ credit

In this course students will read some of the most studied literature of our language and investigate some of our deepest fears by examining the monster in *Beowulf*; the anguish of Dr. Faustus; the torment of Frankenstein and the timely warning from Orwell. Students will also celebrate the human condition through the courage and honor in the Arthurian legends, the human foibles in Chaucer’s tales and the deepest thoughts of the Romantics. *Prerequisite: Recommendation from previous English teacher*

**SHAKESPEARE: TO SEE OR NOT TO SEE**

Grades 10, 11, 12      ½ year      ½ credit

While Shakespeare is credited as the greatest writer in the history of the stage, his work is full of material that some find questionable or even objectionable. Is his work inherently misogynistic (*Taming of the Shrew*, *Hamlet*, *Much Ado About Nothing*), anti-Semitic (*The Merchant of Venice*), or racist (*Othello*)? Does his perpetual use of the supernatural (*Macbeth*, *A Midsummer Night’s Dream*, *King Lear*, *Hamlet*, *Romeo and Juliet*, *The Tempest*, et al.) unburden his characters from owning their own actions or inaction? People have been studying his work for 400 years, and yet there is more room for debate now than

ever before. Students will read and discuss plays and sonnets, and how these works are a portal to understanding contemporary human interactions. Students will become proficient in Shakespeare’s written word through reading, analytical and creative writing, and performance. *Prerequisite: Recommendation from previous English teacher*

**COLLEGE COMPOSITION**

Grade 12      ½ year      ½ credit

*3 CHS credits offered through SCCC*

This course challenges students in a workshop environment to focus on audience, voice, diction and purpose in their writing. It includes conferencing, revision and editing to improve writing, as well as collaboration and cooperation among class members. In this course, a process approach is taken and writing is read, responded to and evaluated throughout the process. Students are responsible for selecting topics, establishing criteria for assignments and evaluation, selecting pieces for evaluation, seeking strategies for editing, setting goals for writing, etc. *Prerequisite: Recommendation from previous English teacher*

**AP ENGLISH: LITERATURE & COMPOSITION**

Grade 12      ½ year      ½ credit

This course for second semester seniors gives qualified students an opportunity to complete college-level English in high school. Students will read, analyze and interpret significant literature from a number of time periods and genres. Students qualify if they have received 90’s on the Common Core ELA exam and previous English courses, and have completed at least two of the following courses: British Literature, Philosophy and Literature, Shakespeare, College Composition and/or Literature & Politics. Students are required to take the AP Exam (fee charged) in May. *Prerequisite: Recommendation from previous English teacher*



# Family & Consumer Sciences (FACS)



Family & Consumer Sciences (FACS) offers students opportunities to learn and practice skills that will prepare them to be successful in their personal, family, school, community and work lives.

If interested in completing the Human Services Pathway and receive a CTE endorsement on your diploma, students must successfully complete the following courses: child studies, adolescent psychology, child psychology & development, lifespan nutrition, and career and financial management I & II. In addition, students must also complete an approved work-based learning experience as well as pass a NOCTI early childhood development and career technical assessment.

## Food, Nutrition & Wellness Courses

### FOOD PREPARATION & NUTRITION

Grades 9, 10, 11, 12     ½ year     ½ credit

This introductory course gives lifetime skills to all students who love cooking and good eating. During the lab-oriented course, students will expand their basic food knowledge and preparation skills, knife skills, and nutrition awareness. They will learn about sustainable and agricultural food practices and improve meal management skills.

### INTERNATIONAL FOODS

Grades 9, 10, 11, 12     ½ year     ½ credit

In this lab-oriented course, students will explore the impact culture, geography and climate have on the food choices and customs of different regions and countries. Each unit includes preparation of foods from that culture and culminates in a full-meal buffet shared by the entire class. Students will have the opportunity to research culinary travel.

### CULINARY ARTS

Grades 9, 10, 11, 12     ½ year     ½ credit

This is an advanced foods course emphasizing food preparation techniques, food trends, garnishing and plating. Students will explore careers in the culinary field as well as obtain real-world insight as they tour local restaurants and compete in classroom competitions. *Prerequisite: Food Preparation & Nutrition.*

### FOOD FOR FITNESS

Grades 9, 10, 11, 12     ½ year     ½ credit

Learn to be at peak performance through healthy eating. Techniques for those involved in sports or anyone wanting to maintain a healthy lifestyle are emphasized in this course. Students will study the impact of nutrition on the cardiovascular system and on their overall health. Topics include sports nutrition, vegetarianism, food and diet trends, healthy cooking techniques and health and fitness throughout the life cycle. Recommended for students interested in health fields such as physical therapy, medicine and nutrition.

## Textiles & Design Courses

### FASHION & TEXTILES

Grades 9, 10, 11, 12     ½ year     ½ credit

Discover the exciting world of fashion. Explore the history of fashion and textiles and how it impacts what we wear today. See how artistic expression is applied through the principles and elements of design. Students who learn to sew will acquire a life skill they can use forever. NOTE: This course can be used to satisfy half of the one year art/music graduation requirement. Students who successfully complete this course plus Fashion Design & Illustration, in the same year, (and pay a fee) will receive college credits through SUNY Oneonta.



## Family & Consumer Sciences, continued



### FASHION DESIGN & ILLUSTRATION

**Grades 9, 10, 11, 12**     ½ year     ½ credit

This course provides students with the opportunity to expand their artistic expression in the world of fashion. Students who are interested in an art-related field such as merchandising, illustration, graphic drawing or fashion design shouldn't miss the chance to explore this worthwhile course. Basic sewing skills will be improved through clothing construction, which is an important part of fashion design and illustration. Students who successfully complete this course plus Fashion & Textiles, in the same year, (and pay a fee) will receive college credit through SUNY Oneonta.

### HOUSING DESIGN & INTERIOR ENVIRONMENT

**Grades 9, 10, 11, 12**     ½ year     ½ credit

In this course students will design and decorate their own home! The portfolio-based course allows students to experience individualized, art-related activities including creating floor plans, designing furniture and evaluating architectural styles. Creative students interested in careers such as architectural design, engineering, interior design, real estate, or any art-related field will find this course especially enjoyable and worthwhile. We will work with Habitat for Humanity to upcycle outdated furniture pieces to be sold at their store. NOTE: This course can be used to satisfy half of the one year art/music graduation requirement.

## Human Development Courses

### CHILD STUDIES

**Grades 9-12**     ½ year     ½ credit 

This course offers students the chance to explore the exciting world of child development. Students will focus on creating a nurturing home environment for children, learning the basics of child care and developing effective parenting skills. Projects include participating in a community service project and Baby-Think-It-Over. Recommended for all students whose interests or career goals include psychology, counseling, social work, education or the human services.


### CHILD PSYCHOLOGY & DEVELOPMENT

**Grades 11, 12**     1 year     1 credit 

*4 CHS credits offered through SCCC*

This college credit-bearing class is our capstone course and designed for students who are interested in pursuing a career working with children. Students will take an in-depth look at the knowledge, skills and attitudes necessary to promote quality growth and development of children from conception to school age. Course topics include: physical, intellectual, emotional and social growth and development of children; major theorists and their models of child development; how play enhances the development of children at different ages; and components of early childhood education. Students will also be given multiple opportunities to learn, practice and apply the knowledge and career skills essential for success in a child-oriented career through our Kids' Korner Preschool. The major highlight of the course is when students create and use learning experiences that promote self expression and encourage social skills in children attending the preschool. Students with the interest and personal characteristics necessary to be successful in fields such as education, psychology, counseling, social work or medicine will find this course valuable. *Prerequisite: Child Studies.*

### ADOLESCENT PSYCHOLOGY

**Grades 10, 11, 12**     ½ year     ½ credit 

Why do adolescents behave the way they do? This course focuses on the scientific study of the biological, cognitive, emotional, personality, and social changes that occur during adolescence. Topics include the effects of heredity and culture, major theorists, moral development, gender role issues, and peer and family relationship issues. Students will learn active citizenship through completing a community service project. Students who have taken Child Studies and Child Psychology will find this a valuable transition to the next stage in the human life cycle.



# Fine Arts Department



The Fine Arts Department offers students a wide variety of music and visual art courses. Various Fine Arts sequences are available by combining courses in music, visual arts or both. One credit of art or music is required to graduate

from any New York state high school. In addition, Fine Arts electives meet the Life Skills credit requirement for an advanced diploma with a BH-BL Merit Seal.

## MUSIC COURSES

This curriculum is the culmination of a program that begins in elementary school; however, opportunities exist for students who have not yet made music a part of their academic lives. Students are required to participate in all concerts and other activities of the organization(s) of which they are members. Students also have the opportunity to participate in the county, area, state and other music festivals. Courses are offered so that a student can participate in several major music organizations simultaneously. Students who wish to perform in multiple ensembles will be required to demonstrate musical ability of a level that will allow them to contribute and grow in each ensemble. The schedule for participation will be determined by the ensemble directors.

### Performance Music Courses

#### MIXED CHORUS

**Grades 9, 10, 11, 12**    **1 year**    **1 credit**

The ability to read music is desirable, but it is not a requirement for students to be in chorus. Mixed Chorus performs at four school concerts each year. Students are introduced to quality choral music from many time periods and cultures, including some of today's popular music. Musical characteristics of these time periods, cultures and composers are studied. Students learn to sight read music and develop their vocal technique and musicianship. All ninth- and tenth-grade choral students are required to have weekly group lessons, which meet on a rotating basis. Through these group lessons, students will be able to work more intensely on proper technique, breath control and overall poise and confidence in their singing ability. Students are encouraged to participate in county, area and state music festivals, as well as school musicals and community productions. This course meets the music/art graduation requirement and may be used as a component in a five-unit music or fine arts sequence.

#### SYMPHONIC BAND

**Grades 9, 10, 11, 12**    **1 year**    **1 credit**

This is open to any student who has been studying a band instrument and participating in the BH-BL instrumental program. Symphonic Band enables students to further develop musicianship and skills on a chosen instrument, and to experience the thrills of live performance. The band performs a variety of challenging and exciting level 3 and 4 music at four concerts throughout the school year. Members are welcome to participate in the Pep Band at all home football games. Students are encouraged to participate in county, area, and state festivals and competitions. Students may also have the opportunity to perform in the Jazz Ensemble and Musical Pit Orchestra. Ninth- and tenth-grade students have small group instruction, which is scheduled on a rotating basis. This course meets the music/art graduation requirement and may be used as a component in a five-unit music or fine arts sequence.





## Fine Arts Department, continued

### ORCHESTRA

Grades 9, 10, 11, 12      1 year      1 credit

The Orchestra is open to students who have been studying an orchestral instrument and participating in BH-BL performing ensembles. Students perform a wide variety of classical, modern, and popular music at four concerts throughout the school year. Students are encouraged to participate in county, area and state festivals and competitions. Orchestra students may also play in the Musical Pit Orchestra for the spring musical. Ninth- and tenth-grade students have small group instruction, which is scheduled on a rotating basis. This course meets the music/art graduation requirement and may be used as a component in a five-unit music or fine arts sequence.

### MIXED CHORUS/SYMPHONIC BAND/ ORCHESTRA COMBINATION

Grades 9, 10, 11, 12      1 year      1 credit

This option is available to music students who are very strong instrumentalists and vocalists, and are performing at a NYSSMA level 4 or higher. Students approved for this music configuration by vocal audition will be full-time members of Symphonic Band or Orchestra and take regular instrumental lessons. Once a week students will attend a Mixed Chorus rehearsal for half a block. Students will be required to attend a choral lesson/evaluation prior to each concert during a study hall or activity period. An audition and permission of the high school band, orchestra and choral directors (who will consult with appropriate middle school staff) are required for admission to this class. Students choosing this option will receive one full credit for Symphonic Band or Orchestra while also having the opportunity to participate in a choral experience. This option is based on enrollment and not an option for Concert Choir. This course meets the music/art graduation requirement and may be used as a component in a five-unit music or fine arts sequence.

### CONCERT BAND

Grades 10, 11, 12      1 year      1 credit

Concert Band is open to sophomores, juniors and seniors who have been studying band instruments and participating in the BH-BL instrumental program and who are recommended by the band director. The band performs a variety of challenging and exciting level 5 and 6 music at concerts and festivals. The band also performs during annual Veterans Day and Memorial Day ceremonies. Members may participate in the Pep Band at all home football games. Students may also perform in the Jazz Ensemble and Musical Pit Orchestra. Tenth-grade students have small group instruction, which is scheduled on a rotating basis. This course meets the music/art graduation requirement and may be used as a component in a five-unit music or fine arts sequence.

### CONCERT CHOIR

Grades 10, 11, 12      1 year      1 credit

Concert Choir is open to sophomores, juniors, and seniors who have successfully completed one year in Mixed Chorus and who have demonstrated proficiency in basic vocal technique and musicianship. Other students may be admitted by audition or with the recommendation of their current chorus director. Recommendation by the choral director is required. Students will continue to develop sight reading and other skills to prepare a vocally challenging Level 5 and 6 repertoire from all musical periods and styles. Concert Choir performs four concerts each year. In addition to the activities available to Mixed Chorus, Concert Choir members will perform short major works with the Orchestra and participate in state and out-of-state festivals. Students in Concert Choir are also given the option to audition for Albany Pro Musica Festivals and Melodies of Christmas. Tenth-grade students have small group lessons which are scheduled on a rotating basis. Through these group lessons, students will be able to work more intensely on proper technique, breath control, and overall poise and confidence in their singing ability. This course meets the music/art graduation requirement and may be used as a component in a five-unit music or fine arts sequence.

## Classroom Music Courses

### MUSIC TECHNOLOGY 1

Grades 9, 10, 11, 12      ½ year      ½ credit

Students will learn 21st-century skills already being used in the fields of composition, music business, music technology and the recording industry. Applications to be used include Garage Band, O-Generator and Sibelius. Students will learn basic music theory. Field trips and guest artists will provide insight into how music is commercially produced and the opportunities available in the music industry. Students will compose and perform their own original compositions and will examine how music composition relates to other fields, including video games and film.

### MUSIC TECHNOLOGY 2

Grades 9, 10, 11, 12      ½ year      ½ credit

The emphasis of this course is on students continuing to develop their compositional skills. Projects may include writing and composing a short commercial and composing music to accompany a video game. Prerequisite is Music Technology 1. A full year of Music Technology meets the music/art graduation requirement and may be used in a music or fine arts sequence.

## Fine Arts Department, continued

### MUSIC THEORY

Grades 9, 10, 11, 12 1 year 1 credit

4 UHS credits offered through SUNY Albany for students in grades 10-12

This course is offered on an alternate year rotating basis with Introduction to Theater. It will be offered in the 2024-25, 2026-27 etc. school years.

Music Theory offers students the opportunity to study harmony and other elements of music through actual writing, arranging, analyzing, and hearing music from different periods of history. Computer software is utilized for skill development as well as composition. Students in grades 10-12 enrolled in this course have the opportunity to earn up to four college credits through SUNY Albany. This course meets the music/art graduation requirement and can be used in a music sequence leading to an Advanced Regents Diploma. Basic skills in music reading is a prerequisite for this course. Students in grade 10 must have a 93 overall average to apply for the UHS credit.

### INTRODUCTION TO THEATER

Grades 9, 10, 11, 12 1 year 1 credit

This course is offered on an alternate year rotating basis with Music Theory. It will be offered in 2025-2026, 2027-2028, etc. school years.

This course will explore the theater arts. Since this is a performance class, students will be required to perform daily as well as in an end-of-the-year showcase. Students will learn this art through various exercises in improvisation and team building, and will create characters through work on monologues, scenes and script writing. Students will study the scope and sequence of theater history through dramatic reading and will learn the technical aspects of production, including costume, makeup design, lighting, properties, stage

management and set design. Students will be encouraged to observe professional and amateur theater in the school and community. Participation in these productions will be encouraged but not required. Written and performance assessments will be used to evaluate students. This course will meet the art/music graduation requirement and may be used as part of a five-unit fine arts sequence.

### PRIVATE MUSIC STUDY (APPLIED MUSIC)

Grades 9, 10, 11, 12 1 year ½ credit

Students may earn one-half credit for private study outside the school by meeting the following requirements:

1. Students must have completed one year of private study without credit.
2. Students must receive 1/2 hour of instruction each week for 36 weeks and must practice a minimum of five hours per week.
3. Students must perform a minimum level 3 or 4 NYSSMA solo at the spring festival and/or perform an equivalent solo, major scales and sight reading for a designated district teacher.
4. Quarterly progress reports must be filled out and have a grade issued by the private music teacher. Private study should focus on solos, technique development and scale studies each quarter.

Applications may be picked up at the Fine Arts office. Students must complete the application process during the first two weeks of school or at the end of the preceding year. Applied Music will not meet the graduation requirement for one credit of art/music study, and it may not be used as part of a three or five credit fine arts sequence. Grades in this course are Satisfactory/Unsatisfactory.



## Fine Arts Department, continued

## VISUAL ARTS COURSES



All students are invited to participate in the art program. Students interested in careers or a sequence in the visual arts or fine arts are required to begin this process with Studio Art 2-D and/or 3-D in their freshman year, which satisfy the NYS graduation requirement but are also prerequisites for additional art courses, including those offered for college credit. Students who plan to attend college for art, computer graphics, animation, architecture or photography will need a portfolio to apply for these programs and should take an art sequence that includes the Portfolio course. Students who are interested in both music and art should explore the fine arts sequences offered.

## Foundation Courses

### STUDIO ART 2-D

Grades 9, 10, 11, 12      ½ year      ½ credit

Studio Art 2-D is the beginning course for all advanced art training. Basic concepts, skills and techniques are developed through experiences in fine arts areas such as drawing, painting and mixed media. Satisfies half of the one credit art/music requirement. *Prerequisite: None*

### STUDIO ART 3-D

Grades 9, 10, 11, 12      ½ year      ½ credit

Studio Art 3-D is the second beginning art course for all advanced art training. It includes basic concepts, techniques and experiences in sculptural media (such as clay, plaster, relief, etc.), and graphic arts. Satisfies half of the one credit art/music requirement. *Prerequisite: None*

## Fine Arts Electives

*NOTE: A full year (1 credit) of Studio Art (2-D and 3-D) is the prerequisite for all the advanced fine art and graphic art courses listed on pages 29 and 30.*

### DRAWING & ACRYLIC PAINTING

Grades 10, 11, 12      ½ year      ½ credit

In this class students will learn to draw and paint what they see, as well as explore creative ways to work with several drawing mediums. They will learn professional techniques for mixing colors and painting with acrylic tube paint. A great half-year class for portfolio building. Successful completion of this course will allow students to take Advanced Drawing for college credit and/or Advanced Painting during their junior or senior year.

### DRAWING & WATERCOLOR PAINTING

Grades 10, 11, 12      ½ year      ½ credit

In this course students will experiment with fun techniques in watercolor and multimedia drawing. They'll develop their skills and create a variety of quality pieces to add to their portfolio. Drawing & Acrylic Painting is not a prerequisite. Successful completion of this course will allow students to take Advanced Drawing for college credit and/or Advanced Painting in their junior or senior year.

### EXPERIMENTAL PAINTING

Grades 11, 12      ½ year      ½ credit

This course is an opportunity to explore and experiment! Further develop your painting skills through the use of a variety of creative paint materials and painting surfaces. This is your chance for an in-depth, individual study in your favorite color mediums. The finished pieces will be original and portfolio ready. *Prerequisite: Either Drawing & Acrylic Painting or Drawing & Watercolor Painting*

### ADVANCED DRAWING

Grades 11, 12      ½ year      ½ credit

*3 UHS credits offered through The Sage Colleges*

Students in this course will continue to build their skills as they concentrate on drawing from observation. They'll work with a variety of media and subjects to create dynamic compositions that express their ideas. This in-depth focus will result in quality life drawings that are a must for college entrance portfolios. *Prerequisite: Either Drawing & Acrylic Painting or Drawing & Watercolor Painting.*



## Fine Arts Department, continued

### CERAMICS

Grades 10, 11, 12      ½ year      ½ credit

Students will explore the creative and fundamental aspects of clay in this introductory course. Students will be inspired by the influences of past cultures and contemporary ceramic artists, and will produce both functional and sculptural work. Basic techniques covered are hand building, glazing and introductory wheel throwing. A great half-year class for portfolio building. Successful completion of this course will allow students to take Advanced Ceramics for college credit their junior or senior year.

### ADVANCED CERAMICS

Grades 11, 12      ½ year      ½ credit

*3 UHS credits offered through The Sage Colleges*

Students will broaden their understanding and hone their skills in this course that focuses on advanced hand-building and glazing techniques. This class offers students a greater opportunity to showcase technical skills, design expertise and creative expression. Additionally, students can choose to further develop their skills at the pottery wheel. *Prerequisites: Studio 2-D, Studio 3-D and Ceramics*

### SCULPTURE

Grades 10, 11, 12      ½ year      ½ credit

This course is offered on an alternate year rotating basis with Mixed Media. It will be offered in the 2024-2025, 2026-2027, etc. school years.

In this course students will explore creative concepts and materials as related to current trends in sculpture. Students will utilize a variety of materials such as clay, stone, wood, plaster, etc. and learn more advanced construction processes including modeling, carving, casting, armature building, etc. Students will view both historical and contemporary trends in sculpture as they explore their own artistic expression to create meaningful three-dimensional artwork. Students will experience the creative process both as an independent artist planning then constructing their sculptures and as a member of a creative studio sharing ideas with their peers.

### MIXED MEDIA

Grade 10, 11, 12      ½ year      ½ credit

This course is offered on an alternate year rotating basis with Mixed Media. It will be offered in the 2025-2026, 2027-2028, etc. school years.

This is a course intended for students to experiment with art materials and techniques to create unique and non-traditional art. Students will try new materials and expand their creative possibilities by combining painting, sculpting, print making and other techniques to produce 2- and 3-dimensional mixed media artwork. Projects may include: mixed media on paper, wood or other surfaces; collages; found- object sculptures; wall hangings and assemblages.

### ADVANCED STUDIO

Grades 11-12      ½ year      ½ credit

This is a great class for self-motivated art students who have taken multiple art classes and wish to further develop their creative voice and personal style in art. Emphasis will be on the continued development of a portfolio for personal satisfaction and expression or for college entry. Drawing and painting will be the main focus for portfolio development, however, students may explore other media they are proficient in to create original artwork. Looking at both traditional and contemporary art, students will be encouraged to take risks and explore new ways of visual communication. In addition, information about college art programs and individual assistance in career planning will be available to interested students considering art beyond high school. Students will also maintain a drawing journal with observational drawings and create a digital portfolio or website featuring their best artwork just as a professional artist does. *Prerequisite: Two art credits or teacher permission.*



## Fine Arts Department, continued

### Graphic Art Electives

#### DIGITAL ART

Grades 10, 11, 12 ½ year ½ credit

Digital art is changing the way we create art as a design tool and illustrative medium. In this introductory graphic arts course students can express themselves by combining state-of-the-art technology with creativity. Students will use drawing tablets and graphic software especially designed for artists (Adobe Illustrator and Photoshop) to draw, paint, create and manipulate images just like professional artists and designers. Successful completion of this course allows students to take Advanced Digital Art & Design for college credit in their junior or senior year.

#### FINE ART PHOTOGRAPHY & PHOTOJOURNALISM

Grades 10, 11, 12 ½ year ½ credit

In today's world, most everyone takes pictures, but not everyone is a "photographer." This course is designed for those who wish to develop a photographic practice with emphasis in fine art photography and photojournalism. Students will develop the skills necessary to capture beautiful photos through the understanding of light, exposure, and composition using digital single lens reflex (DSLR) cameras. In addition, students will learn how to process images in the digital darkroom using professional Adobe software, and how to produce beautiful photographic prints. Students will be introduced to influential photographers of the 20th and 21st centuries. Assignments will be both teacher and student driven. DSLR cameras are supplied. *Prerequisite: Either Studio Art 2D and 3D, or Technical & Digital Photography*

#### ADVANCED DIGITAL ART & DESIGN

Grades 11, 12 ½ year ½ credit

*3 UHS credits offered through The Sage Colleges*

This course is a more in-depth exploration into digital art and design, especially helpful for students considering a career in digital or graphic arts. Using the same graphic software and techniques from Digital Art, students will apply basic principles of design and composition as they conceptualize and create original art and designs that communicate ideas. Digital projects may include illustrations and paintings, logos, T-shirt designs, packaging and posters. *Prerequisite: Digital Art*

#### CARTOONING & ANIMATION

Grades 10, 11, 12 ½ year ½ credit

Students can draw their own characters and animate them! In this class students will look at the styles and techniques of successful animators as they develop their own characters and animations. They'll learn techniques for drawing

expression and character design, and how to illustrate movement in cartoons and animated scenes both on and off the computer. Projects may include comic strips, flip books, mini graphic novels and animated short films using Adobe Animate.

#### EXPERIMENTAL VIDEO

Grades 10, 11, 12 ½ year ½ credit

Make unique original short films! Using fresh and innovative techniques students will explore non-narrative and alternative methods to traditional filmmaking. Emphasis will be on experimentation with video using creative editing techniques in an artistic and compelling manner. Students will use Adobe Premiere and After Effects to alter video content with unique effects and sound. This class will also include learning about effective lighting for mood, camera angles and how to get the best moving images for original visual communication. Students may use their own video cameras or borrow one from the class. *Prerequisite: Studio 2D and Studio 3D.*

#### PRIVATE ART STUDY

Grades 10, 11, 12 1 year ½ credit

Students may earn one-half credit for private study outside of school by meeting the following requirements:

1. Students must have completed one year of private study without credit.
2. Students must receive one hour of instruction each week for 10 weeks and must do a minimum of three hours a week of independent artwork.
3. Students must produce a portfolio with a minimum of eight finished pieces in the designated medium. This portfolio will be reviewed by a district art teacher. The portfolio will serve as a final exam in this course.
4. Quarterly progress reports must be filled out and have a grade issued by the private art teacher. Private study should focus on skill, concept development, aesthetic study and art appreciation.

Applications are available in the Fine Arts office. Students must complete the application process during the first two weeks of school or at the end of the preceding year. Applied art will not meet the graduation requirement for one credit of art/music study, nor be used as part of a fine arts sequence.

# Health Education



Health Education at the high school is a continuation of what was learned and practiced in middle school. The curriculum is responsive to the needs of students enrolled in the class and is focused on developing skills that will enhance all dimensions of their health as a teenager and as an adult.

## HEALTH

**Grades 10, 11**       $\frac{1}{2}$  year       $\frac{1}{2}$  credit

This course will help students develop and enhance skills that will enable them to live healthfully in an ever-changing environment. Students participate in relevant learning experiences that incorporate planning and goal setting, stress management, decision making, communication and advocacy with topics such as nutrition, sexual health, substance abuse, and injury and violence prevention. Successful completion of this course is required for graduation.

## ADVANCED HEALTH SKILLS & WELLNESS CAREERS

**Grades 11, 12**       $\frac{1}{2}$  year       $\frac{1}{2}$  credit

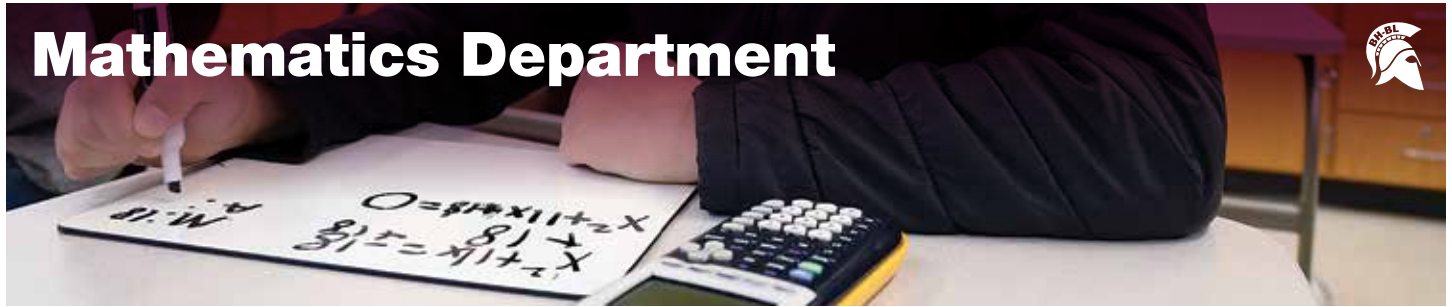
This course is offered on a rotating basis. It will be offered in 2025-26, 2027-2028, etc. school years.

This course focuses on a personalized approach to health-enhancing life skills. It combines a blended learning model using the Internet and Google classroom technology as well as face-to-face classroom instruction. Students will earn American Red Cross CPR and First Aid certification. They will also assess their personal health and wellness, and select and practice individual health improvement strategies. Students will focus on a variety of health fields such as wellness, health and physical education, and various medical fields. Students will research and explore career options, interview people in these fields, research college programs, and visit a local college that offers a health focus area of study. This course is a stepping stone in the exploration of a career in a growing field. *Prerequisite:* Health





# Mathematics Department



The Mathematics Department provides a sequence of courses intended to meet the needs and abilities of every student. Basic concepts and skills are stressed at every level. Mastery of mathematical skills, critical thinking, logical reasoning, the beauty of mathematics, the contributions of mathematics to society, familiarity with technology and preparation for future study are all objectives of the curriculum. Students may be required to use a calculator. See individual course descriptions for specifications.

## ALGEBRA

Grade 9                      1 year                      1 credit

This course is a comprehensive and rigorous study of elementary algebra, linear, quadratic and exponential functions. It will prepare students for the NYS Regents exam in Algebra. The course will follow the NYS Algebra Learning Standards. This course ends with a local exam and with the NYS Regents exam in Algebra. The TI-84 Plus CE graphing calculator will be used in this course. *Prerequisite: Passing math 8.*

## ALGEBRA A

Grade 9                      1 year                      1 credit

This is a two-year algebra course. The main topics covered are variables, equations, operations with integers, formulas, graphing, linear and exponential functions and problem-solving skills. This course is the beginning preparation for the NYS Regents exam in Algebra. The course will follow



the first half of the NYS Algebra Learning Standards. This course ends with a local exam. The TI-84 Plus CE graphing calculator will be used in this course.

## HONORS GEOMETRY

Grade 9                      1 year                      1 credit

This course is for incoming ninth-graders who took prerequisite courses in middle school and have met predetermined requirements. Teacher recommendation is required. This is a rigorous Regents-level course that focuses on the study of geometry, problem solving, logical reasoning proof, and the integration of algebra and geometry with real world situations. The course will follow and exceed the NYS Geometry Standards. It will end with the Regents exams in Geometry. The TI-84 Plus CE graphing calculator will be used in this course. *Prerequisites: Honors Algebra and passing NYS Algebra Regents exam.*

## GEOMETRY

Grade 10                      1 year                      1 credit

This is a Regents-level course that focuses on the study of geometry, problem solving, logical reasoning, proof and the integration of algebra and geometry with real-world situations. The course follows the NYS Geometry Standards and ends with a local exam and the NYS Regents exam in Geometry. *Prerequisite: Passing the NYS Algebra Regents.*

## ALGEBRA B

Grade 10                      1 year                      1 credit

This course is the second year of the NYS Algebra curriculum. It focuses on the study of elementary algebra, linear and quadratic functions. It will follow the second half of the NYS Algebra Learning Standards. The course ends with a local exam and the NYS Regents exam in Algebra. The TI-84 Plus CE graphing calculator will be used in this course. *Prerequisite: Algebra A.*

## APPLIED GEOMETRY

Grades 10, 11                      1 year                      1 credit

This course will focus on fundamental geometry concepts, including real-world situations and hands-on activities. The use of algebra to solve geometric problems will be part of this course. A final exam is taken at the completion of the course in June. The TI-84 Plus CE graphing calculator or scientific calculator will be used in this course. *Prerequisites: Passing the Algebra Regents and successful completion of Algebra or Algebra B.*

**Mathematics Department, continued****HONORS ALGEBRA 2****Grade 10**      **1 year**      **1 credit**

Honors Algebra 2 will be available for tenth-grade students who have taken the prerequisite courses, such as Honors Geometry, and have met other predetermined requirements. Teacher recommendation is required. This is a rigorous Regents-level course that focuses on the study of polynomial, rational, and radical relationships; trigonometric functions; exponential and logarithmic functions; and drawing inferences and conclusions from data (probability and statistics). The course will follow and exceed the Algebra 2 Common Core Learning Standards adopted by NYS and will end with a local exam and the NYS Regents exam in Algebra 2. The TI-84 Plus CE graphing calculator will be used in this course. *Prerequisite: Honors Geometry and passing NYS Algebra and Geometry Regents exams.*

**ALGEBRA 2****Grade 11**      **1 year**      **1 credit**

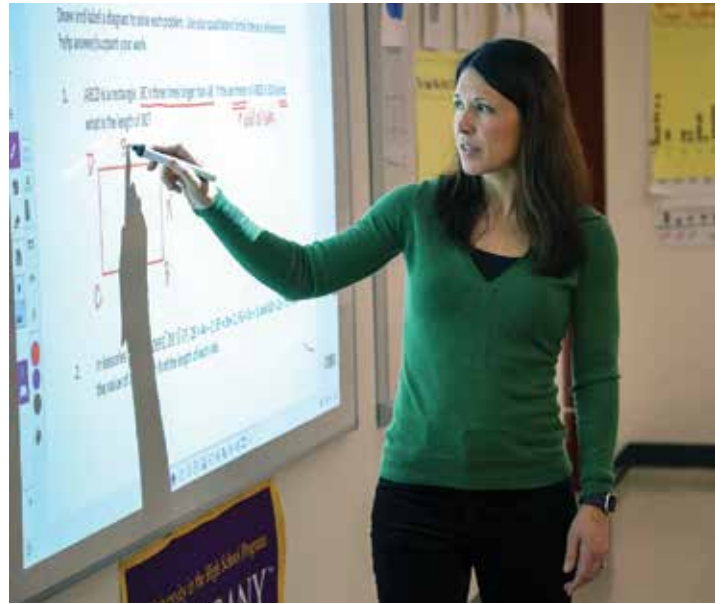
This Regents-level course follows successful completion of Regents Algebra and Regents Geometry. It is strongly recommended that a student entering this course has earned a grade of 85% or better as an overall average in both prerequisite courses. The course includes such topics as polynomial, rational, and radical relationships; trigonometric functions; exponential and logarithmic functions; and drawing inferences and conclusions from data (probability and statistics). The course will follow the Algebra 2 Common Core Learning Standards adopted by New York state and will end with a local exam and the NYS Regents exam in Algebra 2. The TI-84 Plus CE graphing calculator will be used in this course. *Prerequisites: Passing the NYS Algebra and Geometry Regents exams.*

**ALGEBRA 2A****Grade 11**      **1 year**      **1 credit**

This course will focus on the first half of the Algebra 2 course listed above. A local final exam is taken at the completion of this course in June. Successful completion of this course, the Algebra 2 B course and a grade of 65% or better on the State Algebra 2 Regents exam will complete the Regents sequence in mathematics and may lead to an Advanced Regents diploma. The TI-84 Plus CE graphing calculator will be used in this course. *Prerequisites: Successful completion of Algebra, Geometry, and a grade of 65% or better on both the Algebra and Geometry Regents exams.*

**ALGEBRA 2B****Grade 12**      **1 year**      **1 credit**

This course will focus on the second half of the Algebra 2 course listed above. Successful completion of this course and a grade of 65% or better on the Algebra 2 Regents exam will complete the Regents sequence in mathematics and may lead to an Advanced Regents diploma. Students will take a



local exam and a NYS Regents exam in Algebra 2 at the end of the course. The TI-84 Plus CE graphing calculator will be used in this course. *Prerequisites: Successful completion of the Algebra 2A course.*

**PRECALCULUS****Grades 11, 12**      **1 year**      **1 credit***3 UHS credits offered through SUNY Albany*

Precalculus is a course designed for students who intend to continue their education beyond high school in a scientific or technical field and will, therefore, study calculus at some time in the future. Advanced algebra and analytic geometry are studied in this course, plus topics that are basic to calculus, such as limits. Success in this course is more likely if students earned a grade of at least 80% in Algebra 2. A TI-84 Plus CE calculator will be used in this course. *Prerequisites: Passing Algebra 2 & Algebra 2 Regents exam.*

**HONORS PRECALCULUS****Grade 11, 12**      **1 year**      **1 credit***3 UHS credits offered through SUNY Albany*

Honors Precalculus is designed for juniors (and qualifying seniors) who have successfully taken the prerequisite courses, such as Honors Algebra 2, and have met other predetermined requirements. Teacher recommendation is required. This is a rigorous college-level course for students who intend to take AP Calculus in high school. Advanced algebra and analytic geometry are studied in this course, plus topics from calculus, including limits and derivatives. A TI-84 Plus CE calculator will be used in this course. *Prerequisites: Honors Algebra 2 and passing the NYS Mathematics Regents exams.*

**ESSENTIAL ALGEBRA (PRE-COLLEGE ALGEBRA)****Grades 11, 12**      **1 year**      **1 credit**

This course is designed for students who have completed at a minimum a Geometry course and are looking for a fourth year of math. It targets students who are interested

**Mathematics Department, continued**

in a 2- or 4-year college track and who are looking for additional support in Algebra as they prepare for college. This course prepares students with the essential Algebra skills to be successful on the college placement test, which may allow them to enroll in a credit-bearing Algebra course as a freshman in college. A TI-84 Plus CE calculator will be used in this course. *Prerequisite: Geometry or Applied Geometry.*

**COLLEGE ALGEBRA**

**Grade 12**                      **1 year**                      **1 credit**

*3 CHS credits offered through SCCC*

This course is designed for college bound seniors who have completed three high school mathematics courses. This course will follow the curriculum provided by SCCC. Topics include functions, polynomial and rational functions, exponential and logarithmic functions, systems of equations, matrices, and sequences and series. Good attendance is key to a student's success in this college-credit bearing course. Successful students often take Essential Algebra prior to this course. *Prerequisites: Successful completion of 3 high school mathematics courses. Students who have successfully completed Algebra 2 are not eligible for this course.*

**STATISTICS**

**Grades 11, 12**                      **1 year**                      **1 credit**

*3 UHS credits offered through SUNY Albany*

In our data-driven world careers in statistics are in high demand and salaries for statisticians are rising fast. This course will introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. This introductory course is designed for students who are considering any major from science or business to psychology or social sciences. It follows the syllabus provided by SUNY Albany UHS program. A classroom set of TI-Nspire handheld calculators will be used in class. Students are not required to buy this calculator. Strong verbal and reading skills along with good attendance are key to a student's success in Statistics. *Prerequisites: Successful*

*completion of Algebra 2, Algebra 2A, Algebra 2B, or an 85% or better in Applied Geometry.*

**AP STATISTICS**

**Grades 11, 12**                      **1 year**                      **1 credit**

*3 CHS credits offered through SCCC*

This course follows a concept-oriented, rather than skills-oriented, curriculum. Students must have strong verbal skills because they will be required to think critically and defend their decisions in writing. AP Statistics will cover the material normally covered in a college introductory statistics course: exploratory data analysis, planning and conducting a study, probability and statistical inference. The instructional approach will include projects, group problem solving, and the use of technology and writing. In general, a student who earns a 3 on the AP Statistics exam will earn credit for a college's introductory statistics course. At the most selective universities, students must earn a 4 or 5 on the AP exam to receive credit. A TI-Nspire CX calculator is provided for student use throughout this course. *Prerequisite: Successful completion of Algebra 2.*

**AP CALCULUS AB**

**Grade 12**                      **1 year**                      **1 credit**

*4 CHS credits offered through SCCC*

This course is offered to qualified students who have completed the four-year high school mathematics sequence at the end of their junior year. The topics covered in this course are the topics normally covered in one and a half semesters of college calculus. Students who successfully complete this course will be prepared and required to take the AP calculus exam, for which a fee is charged. Generally, students who successfully complete this course and score well on the AP exam receive one semester of college credit. A TI-Nspire CX calculator is provided for student use throughout this course.

**AP CALCULUS BC**

**Grade 12**                      **1 year**                      **1 credit**

*8 CHS credits offered through SCCC*

This course is offered to qualified students who have completed the four-year high school mathematics sequence at the end of their junior year. Teacher approval is required. The topics covered in Calculus AB are also covered in this course in the same depth. However, Calculus BC is an extension of AB in that BC will cover several additional topics. Hence this course will move at a quicker pace. Students who complete Precalculus with an average of 95% or better are eligible for this course. Students who successfully complete this course will be prepared and required to take the AP calculus exam, for which a fee is charged. Generally, students who successfully complete this course and score well on the AP exam receive up to two semesters of college credit. The TI-84 Plus CE graphing calculator will be used in this course.



# Physical Education Department



Physical education is an important lifestyle habit because it relates directly to good health—and is also a powerful social agent. The program provides opportunities for students to interact with their peers and become involved in activities that can be enjoyed now and for much of life. Physical education develops skills and provides knowledge for physical fitness and enjoyment of physical activity.

Activities presented to students include conditioning and body mechanics, aquatics, self-testing activities, games, team sports, rhythm and dancing and skill and knowledge tests. In addition to the daily physical education program, students can further their interests through the intramural and interscholastic athletic program. These programs provide extra participation time for the students.

## **PHYSICAL EDUCATION:** **GRADES 9-10** **Meets every third day** **½ credit per year**

Students are required to take physical education each semester. Some sophomores may be eligible to sign up for Lifeguarding as an alternative (see below).

## **PHYSICAL EDUCATION:** **GRADES 11-12** **Meets every third day** **½ credit per year**

To meet their physical education requirement, juniors and seniors can take regular physical education or Lifeguarding each semester.

## **LIFEGUARDING** **1 semester** **½ year** **¼ credit**

This course teaches students age 15 and older the basic requirements of lifeguarding. Students earn a lifeguard, COR and waterfront certificate upon successful completion of this course.

*Prerequisites: Students must have passed Level 5 of the American Red Cross swimming requirements and pass a swim test.*

## **PERSONAL FITNESS/CONDITIONING** **Grades 11 and 12** **½ credit per year**

This full-year course provides students the opportunity to enhance their learning of personal fitness concepts and conditioning techniques used for obtaining optimal physical fitness. Students will benefit from comprehensive weight training and cardiorespiratory endurance activities. Students will learn the fundamentals of strength training, aerobic training and overall fitness training and conditioning. This course includes both lecture and activity sessions. Students will be expected to make wise choices, meet challenges and develop positive behaviors in fitness, wellness and movement activity for a lifetime.

## **UNIFIED PHYSICAL EDUCATION** **Grades 9-12** **½ credit per year**

This course combines students of all abilities to participate in developmentally appropriate activities including lifetime activities, physical fitness, and sport. Students will work together to increase competence and confidence in a variety of physical activities. Through ongoing leadership opportunities, members of this course will be empowered to help create a more inclusive and accepting school environment for all students.

# Science Department



The Science Department aims to offer all students the opportunity to investigate fundamental laws and principles that govern the universe and to understand the phenomena that affect our daily lives. Although the sequence of Biology, Earth Science, Chemistry and Physics is standard, personalized scheduling to match needs is considered based on individual situations. Advanced courses are open to all qualified students. For courses ending in a Regents exam, student must satisfactorily complete 1,200 minutes of documented laboratory work to be eligible for the Regents exam and earn credit for the course.

## CORE BIOLOGY

**Grades 9, 10, 11, 12**      **1 year**      **1 credit**

Core Biology is the study of living organisms and their environment. Students will study the key ideas and major understandings in the New York State P-12 Science Learning Standards. Students will study the key ideas and major understandings in the NYS Living Environment Core Curriculum. Some major topics that will be covered are unity and diversity among living organisms, human body systems and their role in maintaining homeostasis, genetics, evolution, reproduction and development, and ecology. Related lab activities and 1,200 minutes of documented lab work are course requirements. The Regents Living Environment exam will conclude the course.

## BIOLOGY

**Grades 9, 10, 11, 12**      **1 year**      **1 credit**

Biology is a college-preparatory, lab-based program that focuses on the important concepts of the study of life. Emphasis will be placed on conceptual understanding, the development of important ideas of biology and the relationship between biology and the everyday lives of students. Topics and key ideas are similar to, but not restricted to, those presented in Core Biology. Topics will be presented at a more complex level and a faster pace. Related lab activities and 1,200 minutes of documented lab work are course requirements. The Living Environment Regents exam will conclude the course.

## CORE EARTH SCIENCE

**Grades 9, 10, 11, 12**      **1 year**      **1 credit**

Core Earth Science is the study of our physical environment and will introduce students to geology, meteorology, astronomy, and oceanography. Students will study the key ideas and major understandings in the New York State P-12 Science Learning Standards, including celestial phenomena as described by relative motion and perspective and the

interactions among components of the air, water, and land. Some major topics that will be covered are unity and diversity among living organisms, human body systems and their role in maintaining homeostasis, genetics, evolution, reproduction and development, and ecology. Related lab activities and 1,200 minutes of documented lab work are course requirements. The Regents Living Environment exam will conclude the course.

## EARTH SCIENCE

**Grades 9, 10, 11, 12**      **1 year**      **1 credit**

Earth Science is a college-preparatory, lab-based program that focuses on our physical environment through the study of geology, meteorology, astronomy, and oceanography. Emphasis will be placed on conceptual understanding, the development of important ideas in the earth sciences and the relationship between the earth sciences and the everyday lives of students. Topics and key ideas are similar to, but not restricted to, those presented in Core Earth Science. Topics will be presented at a more complex level and faster pace. Related lab activities and 1,200 minutes of documented lab work are course requirements. The Earth Science Regents exam will conclude the course.

## SCIENCE RESEARCH

**Grades 10, 11, 12**      **3 years**      **3 credits**

*Up to 12 UHS credits offered through SUNY Albany*

This three-year course offers students the opportunity to conduct original scientific research under the guidance of a research scientist. Students are required to take another science class simultaneously with Science Research, attend and present at local symposia and enter local, regional and/or national scientific competitions, such as Intel and Regeneron. In addition to having their work published, students may pursue college credits.

## CHEMISTRY

**Grades 10, 11, 12**      **1 year**      **1 credit**

Chemistry is a college-preparatory, lab-based course for students planning to pursue a four-year college degree who have successfully completed two years of high school science. Related lab activities and 1,200 minutes of documented lab work are course requirements. The Chemistry Regents exam will conclude the course.

*Prerequisite: Geometry. Algebra 2 is a preferred co-requisite.*

**Science Department, continued****HONORS CHEMISTRY****Grades 10, 11, 12**                      **1 year**                      **1 credit***8 CHS credits offered through SCCC*

This is a faster-paced course than Chemistry with a more comprehensive view of certain concepts, including quantum mechanics, chemical reactions, stoichiometry, chemical bonding, reaction kinetics, thermodynamics, and oxidation-reduction reactions. Emphasis is placed on laboratory work and problem solving. Related lab activities and 1,200 minutes of documented lab work are course requirements. The Chemistry Regents exam will conclude this course. Students will also be eligible for the SAT Subject exam in Chemistry (optional). *Prerequisites: Recommendation from current science teacher, Math Regents exam scores of an 85% or greater, Science Regents exams scores of a 90% or greater, and currently enrolled in Algebra 2 are required.*

**INTRODUCTION TO CHEMISTRY****Grade 11**                                      **1 year**                                      **1 credit**

This lab-based course is designed for students who have successfully completed Core Biology and Core Earth Science. It will expose students to selected topics in chemistry, such as solution chemistry, nuclear chemistry, and physical and chemical changes. Case studies and projects are used to present various topics. A final exam and/or project will conclude the course.

**ENVIRONMENTAL SCIENCE****Grades 11, 12**                      **1 year**                                      **1 credit***3 CHS credits offered through SCCC*

This course is designed for students who have successfully completed Biology and Earth Science. The goal of this course is to build an understanding of local, regional, and global environmental issues. Topics include air and water pollution, ecology, endangered species, natural resource management, population growth, food production and alternative energy sources (solar, wind, hydropower, geothermal, etc.). Hands-on activities, labs and projects will be used to present various topics. A final exam will conclude the course.

**PHYSICS****Grades 10, 11, 12**                      **1 year**                                      **1 credit**

The course uses lab-based and guided-discovery learning methods that involve the use of computers and computer-based lab equipment to gather and analyze experimental data. Students use mathematics and reasoning skills to discuss these experimental results and how they model phenomena present in the real world. The course will investigate topics including measurement uncertainty, mechanics, energy, electricity and magnetism, waves, light, and nuclear physics. This course will provide an excellent background for any college course in physics and will serve any student well in further study of the sciences. Related



lab activities and 1,200 minutes of documented lab work are course requirements. The Physics Regents exam will conclude the course. *Prerequisite: Algebra*

**HONORS PHYSICS****Grades 10, 11, 12**                      **1 year**                                      **1 credit***8 CHS credits offered through SCCC*

This is an algebra-based college level physics course. A more rigorous course than Regents Physics, it includes a more in-depth view of most topics and covers some additional topics such as oscillatory motion, fluids, thermodynamics and geometric optics. A greater emphasis is placed on problem solving. Related lab activities and 1,200 minutes of documented lab work are course requirements. The Regents Physics exam will conclude the course. *Prerequisites: Recommendation from current science teacher and Math and Science Regents exam scores of 85% or greater are recommended.*

**INTRODUCTION TO PHYSICS****Grade 11, 12**                                      **1 year**                                      **1 credit**

This course takes a hands-on approach to physics. It is geared toward students who are not likely to take further science in college. Topics to be covered include motion, electricity, magnetism and light. This course will require a final examination and/or project.



## Science Department, continued



### FORENSIC SCIENCE

Grade 12                      1 year                      1 credit

This course is for students who have completed 3 years of science. Forensic techniques are used to teach scientific principles. Activities and inquiry-based labs develop the skills and confidence necessary for students to become proficient at critical thinking and problem solving. Topics include processing a crime scene, estimating post-mortem interval (rigor, livor, and algor mortis, forensic entomology, digestive system anatomy, eye anatomy), forensic anthropology, physical evidence vs. testimonial evidence (eyewitnesses, confessions), analysis of glass, forensic toxicology and drugs, serology, DNA analysis, hairs, fibers, fire investigation, fingerprinting, document examination, and careers in forensic science.

### AP ENVIRONMENTAL SCIENCE

Grades 11, 12                      1 year                      1 credit

3 CHS credits offered through SUNY ESF

This lab- and project-based, college-level course provides students with the scientific principles, concepts and methodologies needed to understand the complex interrelationships of the natural world. Students will be able to identify and analyze both natural and man-made environmental problems, evaluate the relative risks

associated with these problems and examine alternative solutions for resolving or preventing them. Students will work cooperatively with SUNY Environmental Science & Forestry, with opportunities for guest lectures and off campus field trips. The AP Environmental Science exam in May, for which a fee is charged, is required. College credit may be attained in this course in one of two ways: Students may either receive credit upon successfully completing the coursework and meeting all requirement through the college in the high school program or by earning a specific grade on the mandatory AP exam. An additional fee is charged to receive college credits. *Prerequisites: Biology, Earth Science, and Chemistry.*

### AP BIOLOGY

Grades 11, 12                      1 year                      1 credit

8 CHS credits offered through SCCC

This course is equivalent to a two-semester college introductory biology course. Students will spend time learning essential biological concepts while developing advanced inquiry and reasoning skills. Areas of study include designing a plan for collecting and analyzing data, applying mathematical routines, and connecting concepts across domains of study (molecules and cells, heredity and evolution, organisms and populations and the structure and function of plants and animals). The AP Biology exam in May, for which a fee is charged, is required. College credit may be attained in this course in one of two ways: students may either receive credit upon successfully completing the coursework and meeting all requirements through the college in the high school program or by earning a specific grade on the mandatory AP exam. *Prerequisites: Biology and Chemistry.*

### AP CHEMISTRY

Grades 11, 12                      1 year                      1 credit

8 CHS credits offered through SCCC

This college-level chemistry course examines in detail the intricacies of chemical reactions, including kinetics, equilibrium and thermodynamics. The kinetic and atomic theories of matter also constitute a major portion of the course. The AP Chemistry exam in May, for which a fee is charged, is required. College credit may be attained in this course in one of two ways: Students may either receive credit upon successfully completing the coursework and meeting all requirements through the college in the high school program or by earning a specific grade on the mandatory AP exam. To enroll in AP chemistry, students must meet department selection criteria. Summer work is also a requirement of this course. *Prerequisites: Biology, Chemistry, and Algebra 2. Recommendation from current science teacher. Math Regents exam scores of 88% or greater and Science Regents exams scores of 93% or greater.*

# Social Studies Department



The Social Studies Department has designed courses that will help you become a well-informed citizen, knowledgeable about America's heritage and capable of participating in American life. In order for students to graduate from high school, they are required to earn 4 credits in social studies, as well as pass Regents exams. To do so, they must successfully complete:

- Grade 9: Global History & Geography 1
- Grade 10: Global History & Geography 2 or AP World History
- Grade 11: US History or AP US History

- Grade 12: Economics or AP Macroeconomics, and Participation in Government or AP US Government and Politics

Students will learn to be effective lifelong learners, to appreciate their own culture and the cultures of others. They will develop learning and communication skills and they will use the knowledge and skills needed to be effective citizens. NOTE: To enroll in AP/CHS history and economics courses, students must meet department selection criteria.

## GENERAL EDUCATION SOCIAL STUDIES COURSES

### GLOBAL HISTORY & GEOGRAPHY 1

Grade 9                      1 year                      1 credit                      

The course is a comprehensive study of global history up to 1750. It will be taught in a chrono-topical manner and will include such themes as diversity, interdependence, scarcity, geography and economic and political systems. Major emphasis is on concepts, key trends, attitudes and skills. Students take a departmental exam, but earn credit toward a Regents diploma.

### GLOBAL HISTORY & GEOGRAPHY 2

Grade 10                      1 year                      1 credit

The globe is studied in chrono-topical fashion. Students will begin with the Enlightenment and the French Revolution, study global trends in the 19th Century and explore developments in the 20th Century. Students will develop a deeper understanding of and appreciation for Western and Eastern heritages and their impact on their lives, while improving their learning skills.

### AP WORLD HISTORY: MODERN

Grade 10                      1 year                      1 credit

This college-level course studies the cultural, economic, political, and social developments that have shaped the world from c.1200 CE to the present. Students will analyze texts, visual sources, and other historical evidence and write essays expressing historical arguments. There is a fee for taking the AP examination, which is a required part of the course. To enroll in AP history courses, students must meet department selection criteria. The Social Studies Department strongly recommends students have earned an overall grade of at least 93% in their current social Studies and English courses. Summer work is also a requirement of this course.

### US HISTORY & GOVERNMENT

Grade 11                      1 year                      1 credit

U.S. History deals with fundamental political, economic, social and cultural concepts and understandings within a chronological framework with special emphasis on modern America. This organization allows students to explore interrelationships among peoples, events, ideas, etc., as well as learn the valuable lessons of history and the social sciences.

### AP US HISTORY

Grade 11                      1 year                      1 credit                      

*6 CHS credits offered through SCCC*

This is a traditional course in American History, but with a greater emphasis on historical interpretation and development of individual writing skills. Upon successful completion of the AP examination, students will be eligible for college credit and/or placement. There is a fee for taking the AP examination, which is a required part of the course. The Social Studies Department strongly recommends students have earned an overall grade of at least 93% in their current social studies and English courses.


### PARTICIPATION IN GOVERNMENT

Grade 12                      ½ year                      ½ credit

This one-semester course emphasizes the interactions among citizens and government at all levels. The knowledge, understanding and skills needed for effective citizenship will be developed and enhanced through readings, discussions, speakers, videos, field trips and research based on current issues.

## Social Studies Department, continued

### ECONOMICS

Grade 12                      ½ year                      ½ credit                      

In this course students learn basic economic concepts and skills to equip them for economic decision making. The course focuses on concepts affecting the development of the United States economy. It involves acquainting students with other economic systems as well as with domestic and international challenges occurring in today's global economy. Through a variety of activities, students learn to apply economic analysis tools to personal, community and national economic issues they face today.

### AP MACROECONOMICS

Grade 12                      ½ year                      ½ credit                      

This in-depth, half-year, college-level introductory course is reading, writing and graph-creation intensive. Students will study the economy as a whole functioning unit, as opposed to looking at individual entrepreneurs and their decision making (micro-economics). Topics that will be covered are measuring economic performance, national income and price determination, the financial sector of the economy, inflation, unemployment, government stabilization policies, economic growth, productivity and international trade. There is a possibility for college credit depending on a student's score on the AP Macroeconomics exam, for which a fee is charged. This course also fulfills the Economics graduation requirement. The Social Studies Department strongly recommends students have earned an overall grade of at least 93% in their current social studies and English courses.

### AP US GOVERNMENT & POLITICS

Grade 12                      ½ year                      ½ credit

*3 CHS credits offered through SCCC*

This course introduces students to key political ideas, institutions, policies, interactions, roles, and behaviors that characterize the political culture of the United States. Students will study general concepts used to interpret U.S. government and politics and analyze specific topics, including: Constitutional Underpinnings; Political Beliefs and Behaviors; Political Parties, Interest Groups, and Mass Media; Institutions of National Government; Public Policy; and Civil Rights and Civil Liberties. An integral part of the course includes analysis and interpretation of basic data relevant to U.S. government and politics, and the development of connections and application of relevant theories and concepts. There is a fee for taking the AP exam, which is a requirement of the course. This course fulfills the Participation in Government graduation requirement. The Social Studies Department strongly recommends students have earned an overall grade of at least 93% in their current social studies and English courses.

## Social Studies Electives

### THE AMERICAN REVOLUTION

Grades 10, 11, 12                      ½ year                      ½ credit

Students are invited to explore the founding of the United States from its colonial experience through the American Revolution to the early republic period including the War of 1812, America's second war for independence. The American Revolution is a political, economic, social, and military history of the United States, 1763-1815. The study of period history is combined with skills development providing the study and mastery of essential skills for the college student. This course provides the student with opportunities to focus on specific interests of the American Revolution through seminar discussions, research, presentations, book and film reviews, and field trips.

### HISTORY OF AMERICAN AGRICULTURE

Grades 10, 11, 12                      ½ year                      ½ credit

This course will examine the history of agriculture, local and national agricultural production, our food system, animal welfare, as well as a host of other areas surrounding this important topic. This course will include a few local and regional site visits, as well as some active hands-on participation.

### TOPICS IN US MILITARY HISTORY

Grades 10, 11, 12                      ½ year                      ½ credit

This is a military history of the United States where students will receive an overview of key American conflicts exploring cause and effect, technology, tactics, strategy, campaigns, and key players. Topics include but are not limited to: Barbary Wars; War of 1812; Mexican War; Civil War; Native American Wars; Spanish-American War; World War I; World War II; Korean War; Vietnam War; Cold War Military Operations; Persian Gulf War, 1990-91; and the War on Terror. This is a student interest driven elective course where there are opportunities for in-depth topic exploration based on the students' particular interests through seminar discussions, research, presentations, book and film reviews, guest speakers, and field trips.

### CRIMINOLOGY

Grades 11, 12                      ½ year                      ½ credit

Criminology is an introduction to criminal justice. Topics that will be covered are the nature of crime, law and criminal justice, police and law enforcement, courts and adjudication, corrections and the nature of the juvenile justice system. Relevant topics for today will be stressed through the use of current materials, guest speakers and field trips. A career unit will also be explored.



## Social Studies Department, continued

### PSYCHOLOGY

Grades 11, 12                      ½ year                      ½ credit

This course will explore human behavior using scientific techniques developed by social scientists. Students will study learning, motivation and intelligence, as well as the development of the human personality. Readings, discussions and research will be stressed.

### SOCIOLOGY

Grades 10, 11, 12                      ½ year                      ½ credit

Sociology is the scientific study of human relationships, social structure, norms, and institutions. In class students will study sociological theories, social norms, cultural differences, and much more. This course is project based. Students will create surveys, experiments, and presentations as a way to investigate and present new understandings of society and how it functions.

### AP EUROPEAN HISTORY

Grades 11, 12                      1 year                      1 credit

*3 CHS credits offered through SCCC*

In this full-year course students will study European chronology, major events and trends from approximately 1450 to the present. They will develop an understanding of some of the principal themes in modern European history, as well as the ability to analyze historical evidence and express historical understanding in writing. Major themes to be addressed include intellectual, cultural, political, diplomatic, social and economic history. Students will take the AP European History exam, for which a fee is charged. The Social Studies Department strongly recommends students have earned an overall average of 93% in their current social studies and English courses.

### SPORTS IN AMERICAN CULTURE & SOCIETY

Grades 11, 12                      ½ year                      ½ credit

This course will give students an opportunity to investigate issues related to American sports that are part of our larger culture and society. The course will provide the backdrop of American history to some of the biggest eras and events of American sports from the late 19th century through the present day. Students will look at athletes, sports and sporting events not simply from the competitive or athletic perspective, but rather how those athletes and events illustrate the attitudes of American society and the larger issues facing the country throughout its history (social issues, economics, politics and legal issues, etc.)



### DEEP DIG INTO THE DECADES: THE 60'S, 70'S AND 80'S REVEALED

Grades 11, 12                      ½ year                      ½ credit

This semester course will examine the 1960's, 70's and 80's in America. It will concentrate on how events and ideas shaped American culture today. From the Vietnam War, to the advance of Rock 'n Roll along with the Counter Culture of the late 60's, the bell bottom and disco fads of the 70's, as well as the materialism and consumerism of the 80's. This course will dig into the interesting social, economic and political aspects of these important decades and examine how they reflect on you today. Tie Dye Shirts, Vinyl records, 8 track and Cassette Tapes, Rotary Dial Phones, CB Radios, Pet Rocks, Video Games, Classic Automobiles, Sporting Events, Iconic Entertainment on Television and in Theatres will all have a part in this Historical Dig. "Can you dig it, man?" - "Got It!"

# Technology Education



Technology Education courses are designed to meet the needs of all students and offer a unique opportunity to develop skills that will be of value now and in the future. Our department offers several courses in the areas of Manufacturing and Materials Processing, Engineering and other Emerging Technologies. Students can take a variety of courses to prepare them for collegiate study and/or career development while providing life skills beneficial to all in the future.

An articulation agreement is in effect with the Advanced Manufacturing Program at Hudson Valley Community College for any student that successfully completes 1 unit of technology with a grade of C or better.

## DESIGN AND DRAWING FOR PRODUCTION

**Grades 9, 10, 11, 12**      **1 year**      **1 credit**

This is an excellent course for students planning to pursue a technical or STEM-related career. Students will be introduced to SolidWorks and Chief Architect software. Students will also have the opportunity to use the technology labs to construct solutions to design problems. Units include sketching, isometric and orthographic drawing, CAD, architectural development and the design process. Problem solving, tools and careers will also be explored. NOTE: This course can be used to fulfill the one-year art/music graduation requirement for all students.

## INTRODUCTION TO ENGINEERING & TECHNOLOGY

**Grades 9, 10**      **½ year**      **½ credit**

Are you interested in being an innovator, designer or engineer?

Do you like inventing things that solve real-world problems in order to make life easier for you and those around you? Students will have the opportunity to use their ideas to solve real-world problems through hands-on projects using the software, equipment, tools and modern manufacturing technologies in the high school technology labs. Using the engineering design process, students will transform their ideas into products by designing and creating prototypes using CAD software, and various manufacturing techniques such as 3-D printing, thermoforming, and automated machining.

## POWERSPORT EQUIPMENT & TRANSPORTATION

**Grades 9, 10, 11, 12**      **½ year**      **½ credit**

This course is a comprehensive study of today's transportation. Three different modes of transportation will be studied—air, marine and land. Activities include service and repair work on a variety of internal combustion engines, ATVs, snowmobiles and motorcycles. Students will also participate in field trips.

## BASIC ELECTRICAL CONCEPTS

**Grades 9, 10, 11, 12**      **½ year**      **½ credit**

This course is ideal for students who want to familiarize themselves with the fundamental concepts that govern everyday electrical devices. Using a project-based approach, students will be exposed to topics such as electrical units and measurement, green power generation, conversion from AC to DC, residential infrastructure and music amplification.

## METAL TECHNOLOGY

**Grades 9, 10, 11, 12**      **½ year**      **½ credit**

Students will attain an introduction to the field of metals fabrication and manufacturing, which has a very high demand for employment. Metal technology is a hands-on course with an emphasis on welding, machining, precision measurements, and finish. Students will be introduced to concepts in Sheet Metal working, Lathe and Mill operations, Gas, Stick and MIG welding, all with an emphasis on safety and precision.

## ADVANCED METAL

**Grades 9, 10, 11, 12**      **½ year**      **½ credit**

As a continuation of the knowledge built in Metal Technology, This course will build upon student knowledge within the field of metals manufacturing and fabrication, and dive deeper into concepts involving precision metal work, Computer Numeric Controlled (CNC) machining, milling machine operation and advanced welding processes, such as TIG welding and plasma cutting. Students will learn advanced skills that will be of great value to them later in life, as well as in manufacturing and engineering college programs. *Prerequisite: Metal Technology.*

## Technology Education, continued

### WOOD TECHNOLOGY

Grades 9, 10, 11, 12      ½ year      ½ credit

This course introduces students to the essentials of woodworking. Skills will be developed in hand tools, power tools, wood identification and finishes while constructing various approved projects. Engineering-bound students will become familiar with the characteristics of wood products. All students will be introduced to careers and job opportunities in the wood industry.

### ADVANCED WOODWORKING

Grades 9, 10, 11, 12      ½ year      ½ credit

After successful completion of Wood Technology, students may wish to further develop their talents and interests in woodworking. Students are encouraged to construct reasonable projects as determined by the instructor. Emphasis is placed on design, product development and construction techniques. Skills learned in this course could lead to a career in cabinet or furniture making or simply a relaxing, satisfying hobby. *Prerequisite: Wood Technology.*

### COMPUTER-AIDED DRAWING (CAD) 1 – 3-D SOLID MODELING

Grades 10, 11, 12      ½ year      ½ credit

Learn to use SolidWorks, the next generation of 3-D CAD software. SolidWorks is solid modeling CAD software used in industry to produce 3-D drawings and models. In this course students will be introduced to the fundamentals of engineering, drafting and design. Students will first learn 3-D concepts by completing practical 3-D projects, such as small engines, electronics and tire and rim designs. In the end, students will experience reverse engineering through 3-D solid modeling. Students will also be introduced to Chief Architect, which is software used in industry for architectural design. *Prerequisite: Design and Drawing for Production.*

### COMPUTER-AIDED DRAWING (CAD) 2 – 3-D SOLID MODELING

Grades 10, 11, 12      ½ year      ½ credit

Topics in this course are a continuation of those in Computer-Aided Drawing 1 – 3-D Solid Modeling. Advanced and more challenging projects will include, but are not limited to, the application of animation and rendering. Students will be required to present their designs as if they were in the business world. *Prerequisite: Computer-Aided Drawing 1 – 3-D Solid Modeling.*

### HOMEOWNERSHIP & RENOVATION

Grades 10, 11, 12      ½ year      ½ credit

This course is an excellent choice for future homeowners, builders or architects. This class explores all the steps involved in building a home. Through hands-on activities, students will participate in planning, budgeting and building a small structure. The use of alternative energies will be explored as well as “green” building materials and construction methods. Home design, permitting and construction and repair will be covered, exposing students to many of the areas of expertise required to create and maintain living spaces. Students completing this course will have the advantage to not only understand what goes into home construction, but gain the ability to take on home repairs and be “knowledgeable homeowners.”

### ARCHITECTURAL DRAWING I

Grades 9, 10, 11, 12      ½ year      ½ credit

This course includes a brief history of residential designs, as well as the study of energy-efficient homes. Students will use CAD or Chief Architect software to develop detailed plans that will lead to a set of working drawings for their own individually designed home. *Prerequisite: Design and Drawing for Production or Housing Design & Interior Environment.*

### ARCHITECTURAL DRAWING II

Grades 10, 11, 12      ½ year      ½ credit

This course is a continuation of Architectural Drawing I. The exciting difference in this course lies in students’ designs of a house with computer-assisted design software (CAD). The course ends with the construction of a scale-model house using students’ plans. A number of former students in this course are now practicing, licensed architects. *Prerequisite: Architectural Drawing I.*





## Technology Education, continued



### AUTOMOTIVE TECHNOLOGY

Grades 11, 12      ½ year      ½ credit

Students who are planning to own an automobile in the future should consider this course. Do you know how the automobile operates? Can you maintain and repair your own car? This course can help students find the answer to these and many more questions about the automobile. Tune-ups, maintenance, undercar/underhood safety inspections, road emergencies, insurance and purchasing are covered. A field trip to the New York City Auto Show is part of this course.

### ADVANCED MATERIALS PROCESS AND MANUFACTURING

Grades 11, 12      ½ year      ½ credit

What are the skills that are sought after in the modern manufacturing, construction, and industrial markets? This course will have students explore the answer to that question while learning the technological processes that are used to turn various materials into consumer products. Students will build upon the knowledge gained in previous technology department classes, and translate those skills into advanced manufacturing processes that utilize Computer Numeric Control and Computer Aided Manufacturing software (CAD/CAM), while also building other sought after skills of designing, collaborating, and communicating their ideas. The machines/programs used in this course include HAAS Machining Center, HAAS Lathe, CNC Plasma Cutter, CNC Router (Shop Bot), Tabletop CNC Machines, Manual Metals/Woods Machines, SolidWorks, SolidWorks CAM, 3D Printers and Laser Engravers

*Prerequisites: DDP and at least one advanced course in Metals or Woods.*

### PRINCIPLES OF ENGINEERING

Grades 11, 12      1 year      1 credit



Propel yourself into the world of engineering! Get a head start on all the rest! Principles of Engineering is a hands-on, laboratory based course that introduces engineering concepts through a variety of problem-solving projects and competitions. The engineer's approach to problem solving is applied to real-world challenges. Principles of Engineering provides a solid foundation in technology related to engineering. *Prerequisites: Two units of math, two units of science, and completion of the Design and Drawing for Production course.*

### ROBOTICS

Grades 9, 10, 11, 12      1 year      1 credit

This STEM (Science Technology, Engineering & Math) course is an introduction to robotics. In this course students will have the opportunity to learn basic computer programming, apply engineering concepts, and develop technical skills needed to design, build and program robots in order to solve real-world problems. A major part of this course is participation in the FIRST Technology Challenge®. FIRST is an internationally recognized organization whose mission is to combine the excitement of sport with the rigors of science, technology, engineering and math. Each year, teams of students build and program robots to perform specific tasks and then take part in robotic competitions. Participation outside of class is expected and impacts a student's grade. Although some flexibility is given, attendance at events is a class requirement.

### TECHNICAL & DIGITAL PHOTOGRAPHY

Grades 9, 10, 11, 12      ½ year      ½ credit

This course is designed to acquaint students with the operation of a digital single lens reflex (DSLR) camera and use of Adobe Photoshop CC to alter and enhance photographs for personal, artistic or commercial purposes. Topics include camera operation, composition, and lighting. This class also includes instruction in image capture using 3-D scanning and the conversion of 2-D electronic content into 3-D media through the use of laser engraving and 3-D printing. DSLR cameras will be supplied by the district.



*A different language is like a different vision of life.*


*- Federico Fellini*

The World Languages Department provides students with an awareness of and sensitivity towards the cultural and linguistic diversity of an increasingly interconnected world. Language courses offer an exciting academic and cultural experience for students. Through these courses students will be empowered to experience the richness of the world and to take advantage of global opportunities for individual growth and world citizenship. Language proficiency can make the difference in obtaining challenging and exciting employment in business and industry, government, engineering, education and international organizations.

All language courses focus on the four basic communicative skills—listening, speaking, reading and writing—with an emphasis on vocabulary and structure. Students who continue language study throughout high school will reach an advanced level of proficiency. In addition, all language courses promote the understanding of other cultures and a deeper appreciation of one's own culture. Sophomores, juniors and seniors also have the extraordinary opportunity to experience home and school life in France, Germany or Spain through the PEACE (Partners in Education and Cultural Exchange) program. Language teachers will provide more information about these exciting exchange opportunities.

Students must earn one credit of language in order to graduate with a Local or Regents diploma. Successful completion of three units of language and an exam for Regents credit will fulfill the language requirement for an Advanced Regents Diploma.

### **ENGLISH AS A NEW LANGUAGE (ENL)**

**Grades 9, 10, 11, 12    1 year    1 credit** 

All students who have a language other than English spoken at home will be given a speaking proficiency screening. Students who qualify on the NYSITELL test will be enrolled in ENL, and will be assessed again in May to determine continued eligibility. The curriculum emphasis includes a focus on academic listening and speaking, presentation skills (for group and class work), close reading and comprehension of academic texts, and refining academic and literary writing. The class will focus on student needs and on strengthening participation in the school academic environment.

### **COURSE LEVEL I    FRENCH/GERMAN/SPANISH** **Grades 9, 10, 11, 12    1 year    1 credit**

This course is the first step in the language sequence. The curriculum includes the study of the vocabulary and structures from the NYS Syllabus for Modern Language topics. Students work toward proficiency in the four communication skills. Communication in the target language and knowledge of the target culture are stressed.

### **COURSE LEVEL II    FRENCH/GERMAN/SPANISH** **Grades 9, 10, 11, 12    1 year    1 credit**

Course level II is the second step in the language sequence. This course continues to emphasize all four communicative skills bringing the students to a stronger level of proficiency. Students will start to be able to express themselves beyond simple phrases and structures. Cultural understandings and sensitivities continue to be developed.

### **COURSE LEVEL III    FRENCH/GERMAN/SPANISH** **Grades 10, 11, 12    1 year    1 credit**

In course level III, students continue to work towards an intermediate level of proficiency in the language. By the end of this course, students will be able to communicate beyond simple phrases and structures about a variety of topics and be able to demonstrate a sensitivity to tense and nuance. All four communication skills are studied and there is strong emphasis on oral/aural skills. An exam for Regents credit is taken at the conclusion of this course.

## World Languages Department, continued

### ADVANCED-LEVEL ELECTIVES

In order to truly be able to communicate and function in another language, students should continue their language study beyond level three. The curriculum in these courses will educate them for a world in which a more sophisticated understanding of other cultures has become increasingly important. These courses reinforce skills in listening, reading, speaking, writing, grammar and vocabulary, while also introducing students to more advanced and sophisticated language structures and nuance.

The following six advanced language courses are taught in the languages of study (French, German or Spanish). In addition to regular assignments and assessments, a high level of oral participation is mandatory in all advanced language courses. For this reason, these courses are recommended for students who have maintained a 75% or better average in their level 3 courses or have received teacher recommendation.

#### LA PAELLA DE CULTURA

Grades 11, 12      1 year      1 credit      

3 UHS credits offered through SUNY Oswego

Just as a paella is made up of more than simple rice, the culture of a country contains many hidden perspectives or “ingredients.” This exciting course will explore various cultural aspects of the Hispanic countries and Spain through literature, music, cultural events, food, film and art. The course offers the opportunity to improve speaking, pronunciation and listening skills in a comfortable environment through the use of informal roundtable discussion. Students will also advance their reading and writing skills through fictional stories, children’s books, cultural readings and individualized grammar instruction. Students may develop a more personal understanding of their own language and culture as they continue to discover that of the Hispanic world. *Prerequisite: Successful completion of the Spanish exam for Regents credit.*

#### ¡TEMAS Y TAPAS!

Grades 11, 12      1 year      1 credit      

3 UHS credits offered through SUNY Oswego

Just as an order of “tapas” allows you to sample some of the many flavors of a country, students in this course will sample a variety of themes and ideas to explore the various “flavors” and perspectives of culture. From the ancient civilizations of Mexico to modern day Spain, this course will open doors to the Spanish-speaking world in new and interesting ways. Students will sample cultural aspects of Spain and Latin America through film, children’s literature, music, cultural events, literature, art and culinary arts. The course offers the opportunity to improve speaking, pronunciation and grammar skills in a non-threatening way through the use of songs, informal discussions, formal and informal writings and targeted grammar study. *Prerequisite: Successful completion of Spanish exam for Regents credit.*

#### FLEUR DE LIS: FRENCH LANGUAGE & CULTURE IN NORTH AMERICA

Grades 11, 12      1 year      1 credit      

3 UHS credits offered through SUNY Oswego

Who are the Acadiens, the Cajuns and the Quebecois? How has the French culture and language, as symbolized by the fleur de lis, endured and blossomed in North America

despite the predominant Anglo cultures that surround it? In this course students will explore the history and traditions of these francophone cultures through discussions, journaling, films, guest speakers and literature study. Students will discover the importance of music as a guardian of language, culture and traditions. Students will advance their knowledge of grammar and vocabulary through analysis of lyrics and will improve their speaking and pronunciation skills in a non-threatening way. Response journals and specific grammar study will help students in their language development. Active class participation is mandatory. *Prerequisite: Successful completion of the French exam for Regents credit.*

#### LANGUE ET CULTURE FRANÇAISES

Grades 11, 12      1 year      1 credit      

3 UHS credits offered through SUNY Oswego

This course (formerly known as Shaping of Contemporary France) is designed for students who have passed French III and/or the French exam for Regents credit and are interested in exploring a variety of topics related to French culture. Students will continue to develop their fluency in French by studying stories, books, music, poems, films, culture and current issues. They will develop their language skills by engaging in a variety of classroom activities and projects. Reinforcement of language structures, thematic vocabulary and communicative devices are included in each theme. Students will be encouraged to actively participate and use their creativity with the French language. *Prerequisite: Successful completion of French exam for Regents credit.*

#### DU BIST DEUTSCHLAND

Grades 11, 12      1 year      1 credit      

3 UHS credits offered through SUNY Oswego

This course stresses the basic skills of listening, reading, speaking and writing to develop students’ senses of language and its relationship to culture. Instruction in the German language helps students gain an awareness of the significance of grammar, syntax, idiom and different levels of diction. The course will focus on German-speaking countries’ specific historical experiences and on their contributions to literature, other arts (such as film, music, painting) and many other areas including regional cuisine. *Prerequisite: Successful completion of German exam for Regents credit.*



## World Languages Department, continued

### GERMAN CHARACTER & CULTURE

Grades 11, 12      1 year      1 credit        
 3 UHS credits offered through SUNY Oswego

Germany is the most populous nation in Europe. It also has the most vital economy. Don't forget about Germany's ancient, yet varied, and vibrant culture! In this class students will explore this fascinating country and language on a variety of levels. Students will explore current events, the German political system, dialect, cuisine, history, art, and literature. They will also have the opportunity to improve speaking and grammar skills in a non-threatening way through the use of songs, sayings, films, informal discussions, formal and informal writings, projects, and some targeted grammar study. *Prerequisite: Successful completion of the German exam for Regents credit.*

### CHINESE 1C

Grade 9      1 year      1 credit

This ninth grade course will complete instruction in Checkpoint A of the New York State standards for the study of a world language. Basic, formative grammatical concepts are practiced, reviewed and refined with the intent for success on the regional NYCAL Proficiency exam. Vocabulary will continue to be expanded upon. Students will converse in Chinese with each other and one-on-one with the teacher. Students will be expected to write a paragraph of at least 50 Chinese characters without the use of pinyin at the termination of this course. Practice in listening and reading will also be stressed. *Prerequisite Chinese Level 1A & 1B.*

### CHINESE 2A

Grade 10      1 year      1 credit

This course is open to grade 10 students who have completed the Checkpoint A sequence in Chinese (Chinese 1A, 1B, 1C in grades 7-9) and will be the first course of a two-year sequence to complete instruction in Checkpoint B of the NYS World Language Syllabus. Intermediate grammatical concepts are practiced and reviewed. Vocabulary will continue to be expanded upon. Students will converse in Chinese with classmates, the teacher and with native speakers. Students will continue to learn simplified Chinese characters. Practice in listening, speaking, reading and writing will continue to be stressed.

### CHINESE 2B

Grade 11      1 year      1 credit

This course is open to 11th grade students who have completed the Checkpoint A sequence in Chinese (Chinese 1A, 1B, 1C in grades 7-9) and Chinese 2A in grade 10. This will be the second course of a two-year sequence to complete instruction in Checkpoint B of the NYS World Language Syllabus. Intermediate grammatical concepts are practiced and reviewed and vocabulary will continue to be



expanded upon. Students will converse in Chinese with each other and one-on-one with the teacher. Practice in listening, speaking, reading and writing will continue to be stressed. Students will be expected to write a paragraph of at least 100 simplified Chinese characters without the use of pinyin at the termination of this course.

### MANDARIN CHINESE LEVEL 1

Grades 11, 12      1 year      1 credit      

Mandarin Chinese, the official language of Mainland China and Taiwan, is classified as one of the world's most difficult languages to learn due to the written Characters and tonal changes. In this course, the students will learn the Pinyin-Chinese phonic system, five tones, character writing, and how to formulate basic sentences. Students will be provided with listening, reading, speaking and Chinese Simplified Characters writing skills. The course will also incorporate cultural lessons, learning about various holidays, and an online exchange opportunity with a Taiwanese high school. By the end of this course, students will be able to communicate through basic conversation and navigate their way through simple Chinese. *Prerequisite: Completing a WL sequence through Checkpoint B in French, German or Spanish.*

**MANDARIN CHINESE LEVEL 2****Grades 11, 12**      **1 year**      **1 credit**      

Mandarin Chinese, the official language of Mainland China and Taiwan, is classified as one of the world's most difficult languages to learn due to the written Characters and tonal changes. In this course, the students will review the Pinyin-Chinese phonic system, five tones, character writing, and how to formulate basic sentences. Students will be provided with listening, reading, speaking and Chinese Simplified Characters writing skills. The course will build upon grammar and vocabulary learned in Level 1 and will also include cultural lessons, learning about various holidays, and an online exchange opportunity with a Taiwanese high school. By the end of this course, students will be able to communicate at an Intermediate level of conversation and writing. *Prerequisite: Completing Mandarin Chinese Level 1.*

**CHINESE LANGUAGE AND CULTURE****Grade 12**      **1 year**      **1 credit**      

Mandarin Chinese is classified as one of the world's more difficult languages to learn due to the language's written characters and tonal changes, the traditional levels of learning a world language have been altered to insure appropriate acquisition. Therefore, this 12th grade course will be the continuation for those students who pass the NYS Checkpoint B exam in Mandarin Chinese. Intermediate-Advanced grammatical concepts are practiced, reviewed and refined with the intent for success in the course. Vocabulary will continue to be expanded upon. Students will converse in Chinese with each other and one-on-one with the teacher. Practice in listening, speaking, reading and writing will continue to be stressed. Students enrolled in this course will be eligible to earn the NYS Seal of Biliteracy and University in the High School credits. *Prerequisite: Successful completion of the Mandarin Chinese exam for Regents credit.*

**Additional Scheduling Options****DRIVER EDUCATION****Grades 10, 11, 12**      **1 semester or summer**      **No credit**

This course is designed to produce a safer, more skillful and knowledgeable driver. Students will develop positive attitudes toward safety and learn how to be a driver who has few accidents and infractions. Upon successful completion of both the theory and driving portions of this course, students may qualify for a substantial reduction in insurance premiums and gain full driving privileges at the age of 17. During the school year, this course is offered on a tuition basis in both the fall and the spring, after school on selected days. Driver Education is also offered during summer school. This course is open to any student 16 years old or older with priority being given to upperclassmen, then older students in the other classes.

**VOLUNTEER PROGRAM**

The Volunteer Work Experience Program is open to all students interested in an opportunity to test their aptitudes, interests and skills in the area of helping other people. In cooperation with community agencies, participating students will determine an out-of-school service project to pursue. Successful completion of the volunteer community service (60 hours minimum) will result in one-half credit. Community service forms are available in the Guidance Office. For further information, students should meet with their counselor.



# Capital Region Career & Tech Education Programs



The following programs are offered to a limited number of juniors and seniors at the Capital Region BOCES Career & Technical School (formerly Vo-Tec) in Colonie. They are part of the regular school program. Students typically spend half a day (AM or PM) at Career & Tech and the rest at BH-BL.

Detailed descriptions of these courses are available through your counselor. Students in many programs continue their studies in college, and some courses allow students to earn early college credit.

## Criteria for participation in BOCES CTE programs

Interested students must:

- Demonstrate strong daily attendance.
- Complete required ninth and tenth grade academic courses.
- Demonstrate appropriate conduct and behavior in school.



The Tech Prep programs listed on the following pages are the result of partnerships with local colleges. Through hands-on training, Tech Prep students learn about the field from industry-trained instructors and earn college credits in the process. Upon completion of the one-year program, students are ready to go on to college with a strong academic foundation, advanced technical skills and a college transcript.

### AUTO BODY I

Students learn how to repair and refinish today's vehicles and return them to pre-accident condition. They use single-stage paint, base coat, clear coat as well as three stage pearl finishes. From preparing for paint to spraying paint and adding the final details, students learn what is needed to get cars looking good again. Students also work towards obtaining an Automotive Service Excellence (ASE) certification.

### AUTO BODY II

Students repair damaged vehicles back to pre-accident condition. They learn the proper way to repair vehicles per manufacturer's recommendations. Students perform high-tech welding methods such as MIG and STRSW as well as Nitrogen plastic welding. Additionally, students will create damage appraisals, calculate repair costs, and establish estimates. Students can work towards obtaining an Automotive Services Excellence (ASE) certification. The program is accredited by the National Institute for Automotive Excellence (ASE).

### AUTOMOTIVE TECHNICIAN – AYES

Students can learn the basics of auto technology in their junior and senior years while receiving paid and unpaid work experience at a local auto dealership. Students in this program are prepared for National Automotive Service Excellence certification. The program is NATEF/ ASE certified and supported by General Motors and Chrysler Corporation. Students can also earn college credit.

### AUTOMOTIVE TRADES TECHNOLOGY I & II

From computerized diagnostics to hands-on repair, students will learn to repair and maintain all types of cars and trucks. This two-year program takes them from engine theory and customer relations to the use of specialized tools and equipment. Many graduates go on to college or automotive training schools to qualify for more advanced jobs.



## Capital Region Career & Tech Education Programs, continued



### **BUILDING TRADES I & II**

In this two-year course students will learn skills through standardized craft training programs developed by the Home Builders Institute (HBI) and the National Center for Construction Education and Research (NCCER). They will learn about green construction, insulation and energy conservation. On- and off-campus projects provide valuable, real-life experience. Students who pass written exams and performance tests gain a portable skill set and may earn HBI and NCCER certifications, which are recognized by contractors and employers nationwide.

### **COSMETOLOGY I & II (2 YEARS PLUS SUMMER SCHOOL)**

This program offers theory and practical experience to assure that students receive a complete and balanced training in all phases of this most interesting and challenging occupation. The cosmetology classroom is fully equipped with facilities and equipment one would find in a modern beauty salon. Upon successful completion of the program, students are eligible to take the New York State Licensing exam.

### **CRIMINAL JUSTICE I & II**

This two-year program focuses on civil and criminal law, emergency tactics, patrol functions, crime prevention and detention equipment, polygraph techniques, fingerprinting, investigation methods, client contact and business management.

### **CULINARY ARTS & HOSPITALITY TECHNOLOGY I & II**

This program provides students with foundations in quality food preparation from American to classical cuisine. Areas of emphasis include meats, poultry, seafood, appetizers, soups, sauces and beverages. The course can be taken for one or two years.

### **CULINARY ARTS – TECH PREP**

Students who want to cook at a higher degree will be interested in the Tech Prep Culinary Arts program. Students receive college credit and begin preparing for a college degree while they're still in high school through an accelerated curriculum that features the full spectrum of culinary techniques. They'll learn about restaurant management, international cuisines, health and nutrition. Internships at local businesses help bring classroom work to life.

### **DIESEL TECH I & II**

Medium and heavy-duty trucks require educated and experienced technicians for their maintenance and repair. Students in this two-year program will work on late-model trucks and diesel engines. They'll learn electrical and electronic theory, which they will apply to computerized control systems used on today's trucks. They'll also learn how to service and maintain steering, suspension, chassis and braking systems. Alternative fuels, such as biodiesel, and hybrid vehicle technology will also be studied. Automotive Service Excellence (ASE)-style testing during the program prepares students to pursue certification after graduation. Upon completion of the program, students may secure employment as entry-level technicians or advance their education and training. Medium/Heavy-Duty Truck Repair at Career & Tech is the only high school-level program in the state to earn certification by the National Automotive Technician Education Foundation/Institute for Automotive Service Excellence (NATEF/ASE).

### **DIGITAL MEDIA DESIGN**

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

## Capital Region Career & Tech Education Programs, continued



students participate in a variety of work-based learning activities designed to provide professional level practice including exposure to the expectations they will encounter in their future employment.

### EARLY CHILDHOOD EDUCATION I & II

Interested in a career in education or operating your own daycare center? The Early Childhood Education program is for you! In this new course, students learn the fundamentals of how children develop as they prepare for entry-level employment or further educational training. Students learn the basics and methodology of child development and early childhood education while gaining a solid foundation in classroom arrangement, classroom management and curriculum development for infants/toddlers/preschoolers and young children. Students will also learn how to communicate and work with parents/guardians and staff in an education setting. Through on-site work-based learning in a daycare center, students also gain formal childcare hours required to apply for Child Development Associate (CDA) certification.

### ELECTRICAL TRADES I & II

Experienced electricians are in serious demand. This program offers students the opportunity to learn basic electrical skills and progress to the cutting-edge of 21st-century green technologies. Students learn fundamental skills in electrical theory, and through classroom instruction and hands-on shop lessons, they can become successful residential wiring professionals. In each theory class and lab, students construct the circuits discussed, gaining skill and experience as they move from residential into commercial

and industrial wiring. The materials, meters, and methods used in Electrical Trades gives students an in-depth understanding of their field and the knowledge needed to work with the latest environmentally friendly technologies. Electrical Trades students may earn advanced standing in the National Joint Apprenticeship and Training Committee (NJATC) and International Brotherhood of Electrical Workers (IBEW) programs.

### ENTERTAINMENT TECHNOLOGY I AND II

Based at the historic Proctors Theatre in Schenectady, students in this program experience the world of theater and film production, hands-on building skills and knowledge. Students learn about the technical aspects of theatre and film production including history, art and design interpretation, scenery construction and painting techniques, tools and equipment, sound and recording, stage electrics and lighting and. costuming and makeup. Backstage education is complemented by experiences in performance, art, music and practical building trades in a fun and creative atmosphere. Internships and job shadowing advance students' marketable skills while helping them explore careers First-year students can earn credit for integrated science, and second-year students can earn credit for integrated English. Upon completion of the program, students are well-prepared to continue their studies at college or enter the workforce. This program is a direct pathway into the Entertainment Technology program at Fulton-Montgomery Community College (FMCC).

### GAME DESIGN AND IMPLEMENTATION

This is a two-year program for students interested in the creative worlds of video game design, 3-D modeling, and computer programming. Students learn the history of games from ancient times to present. They create board games, card games and dice games while learning the fundamentals of Game Design. Then students create digital games using Game Maker software, GameSalad and Unity. Students will explore various art concepts during the first year and 3D modeling during the second year. Finally, students will design their own video games in groups as well as create a virtual video game design company.

### GLOBAL FASHION STUDIES

In this two-year program students will learn about garment theory, textiles, fashion and apparel manufacturing, sales and promotion and college and career opportunities. First-year students will focus on merchandising; second-year students will learn about marketing and master National Retail Federation customer service standards. The course features specialized software, hands-on projects, lectures and guest speakers, videos, field trips, job shadowing and internships and community service. Through a year-long entrepreneurship project, students design a product, conduct



## Capital Region Career & Tech Education Programs, continued



market research and then produce and sell their creations. They create a professional portfolio to showcase their best work and earn college credits. After completing Global Fashion Studies, students may start their careers or advance their education at college.

### HEATING, VENTILATION, AIR CONDITIONING AND REFRIGERATION (HVAC/R)

This two-year program teaches the skills and technical knowledge required for entry-level employment in this challenging field. Units of instruction include heating, refrigeration, air-conditioning systems, heating pumps, reverse-cycle systems, heat loss and cooling load calculations, electrical circuit troubleshooting and repair and solar energy. Students participate in highly individualized lab projects.

### INTERNET APPLICATION DESIGN

Students interested in designing for the Web, creating smartphone apps or videos, or learning about the latest security software will love this program. This one-year course teaches Web technology for web designers, video creation, Internet security, servers, e-commerce and smartphone applications. Students will be prepared to take Adobe Certified Associate exams in Dreamweaver and Flash. Upon completion, students may continue their Career & Tech studies in Gaming, MultiMedia & Web Design or Computer & Network Technician/Information Technology.

### MANUFACTURING AND MACHINE TECHNOLOGY

Students in this program focus on skilled manufacturing, machining and advanced manufacturing, and learn how products are taken from concept to consumer using the latest technology to compete in a global marketplace. They learn computer-aided design (CAD), engineering drawing and sketching and a number of computer programs used in today's highly technical manufacturing operations. Students benefit from partnerships with such advanced manufacturers as Greno Industries Inc., GE Energy, Simmons Machine Tool, PVA and Atlas Copco, which offer opportunities for field trips, job shadowing and internships. Developed in cooperation with local businesses and industries, colleges and professional associations, our Manufacturing & Machining Technology program working to meet our region's growing demand for advanced manufacturing professionals.

### NETWORK CABLING TECHNICIAN/SMART HOME TECHNOLOGY I & II

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

### STERILE PROCESSING TECHNICIAN

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



## Capital Region Career & Tech Education Programs, continued

### WELDING AND METAL FABRICATION

Welders and sheet metal fabricators are in high demand globally. The Welding and Metal Fabrication program is a two-year program that is aligned with American Welding Society standards. During the duration of the program, students learn the skills and techniques necessary for success in a career that values well-trained, experienced professionals. Students learn shielded metal arc welding (SMAW), gas metal arc welding (GMAW), flux cored arc welding (FCAW), gas tungsten arc welding (GTAW), oxy fuel cutting and plasma cutting. They also learn about the operation of welding and metal fabrication machinery, blueprint reading and shop theory. Upon completion, students are prepared to seek employment or proceed with more advanced training at a technical school or college. Career information may be found at American Welding Society website.



### TWO-YEAR SEQUENCE OF HEALTH CAREERS

With double-digit job growth forecast across the nurse assistant, home health aide, personal care assistant, and direct support professional careers, this is a great program for someone looking to get into the healthcare industry! Students can take courses during their junior and senior years. Students may also have the option of taking a one-year program to earn certification as a Direct Support Professional (DSP), Home Health Aide (HHA), Personal Care Aide (PCA), or a separate one-year program to earn certification as a Certified Nurse Assistant (CNA). Through both plans students will earn American Heart Association

BLS/CPR and First Aide certifications while also gaining valuable hands-on experience in area healthcare and direct support facilities. Below is the breakdown of how the sequences work:

#### CERTIFIED NURSE ASSISTANT - YEAR ONE

Students learn total patient care through training in the classroom and off campus. They prepare to take the Certified Nurse Assistant examination (Prometric) that qualifies CNAs to work in any nursing home in NYS. Students complete 108 hours of clinical work in a nursing home.

#### DIRECT SUPPORT PROFESSIONAL/HOME HEALTH AIDE/PERSONAL CARE AIDE - YEAR TWO

Students learn through clinical training and classroom preparation how to provide valuable skills in conjunction with professional nurses in a home health care setting. Services range from health-related tasks such as obtaining vital signs to doing laundry, personal care and housekeeping. Students will complete 108 hours in a clinical setting. New for the 2020-21 school year, students will also learn about the burgeoning demand for DSPs. These professionals assist people with developmental disabilities of all ages and ability levels. Students learn the skills necessary for a career that's all about helping people with developmental disabilities live fulfilling lives. Students gain such important skills as putting people first; developing positive relationships; being professional; supporting the health and safety of a person with a developmental disability; assisting them in their needs for life at home and being active members of their community.





# Saratoga Career & Tech Educational Programs

The following programs are offered at the Washington/Saratoga BOCES Career & Technical Education Center (formerly Vo-Tec) in Saratoga.

## ENVIRONMENTAL CONSERVATION & FORESTRY

Environmental Conservation and Forestry is a two-year program that aligns with the Society of American Foresters Programs in Forest and Technology standards and procedures. The program emphasizes forest ecology and silviculture, forest management, woods safety, forest land usage, forest protection, fish and wildlife management, forest recreation, trends in urban forestry, and current and emerging environmental conservation issues. Students learn land/forest management practices, tree identification, wildlife identification, tree scaling and lumber grading, timber harvesting and reforestation techniques, orienteering, soil conservation, stream bank repair, equipment safety and operation, and wood utilization/forest products production. Students spend over 75% of their time outdoors in "land labs." These labs enable students to participate in approved projects that put theory into practice. There are a number of different types of land labs from entrepreneurial endeavors to community service projects.

## HEAVY EQUIPMENT MAINTENANCE & OPERATION

Heavy Equipment Maintenance and Operation is a two-year program based on the National Center for Construction Education and Research™ Learning Series for Heavy Equipment and Repair. Modules include introduction to the trade, safety, identification of heavy equipment, basic operational techniques, tractors, grades and slopes, diesel engines, and hydraulics. Students learn to operate, maintain, diagnose, and repair construction-related equipment such as backhoes, bulldozers, bucket loaders, excavators, dump trucks, and skid steers, and apply these skills in "hands on" exercises that include site grading/leveling, materials transportation, and excavation.

## HORSE CARE

Horse Care is a two-year program that includes training of Standardbred horses for racing, using all related tack and equipment. It encompasses equine systems and physiology, nutrition, health, disease, emergency medical care, and stable management. Students learn about bloodlines, breeding, purchasing, selling, the daily care of horses, the role of the caretaker, safety, professionalism, handling of horses, and breaking a yearling. Students spend a majority of their time

at the Upstate Equine Vet Clinic, where they learn and apply equine and veterinary science on Standardbred horses.

## HORTICULTURE, LANDSCAPING & FLORAL DESIGN

A two-year program aligns with the New York State Nursery & Landscaping Association and incorporates contemporary knowledge, skills, and trends in the horticulture, floral, and landscaping industries. Students design and implement landscaping for some of the area's finest gardens. They operate and manage on-site greenhouses and floral shops that are open to the public, gaining hands-on experience in retail sales, merchandising, customer service, and shop management. The curriculum includes commencement level math and English language arts. All students are given the opportunity to participate in a work-based learning experience, which exposes them to the operation of a business and specific job duties related to future careers.

## SMALL ANIMAL SCIENCE

A two-year program based on Industry Standards from National Agricultural, Food & Natural Resources. The Cornell University Veterinary Curriculum is used as the guide for developing topics to be covered. The program is integrated with ELA and math aligned to NYS Next Generation Standards. Topics covered include: Personal Safety & Animal Handling, Animal Roles in Society, Issues in the Animal Industry, Veterinary Terminology, Care & Management of Species: Small Animals, Exotic Animals, Microbiology, Biosecurity, Anatomy & Physiology, Various Body Systems: Skeletal, Muscular, Nervous, Cardiovascular, Respiratory, Digestive, Urinary, Endocrine, Immune; Animal Reproduction & Genetics, Pharmacology, Parasitology, Physical Exams, Hospital Procedures, Office Management, and Laws & Ethics. Students can earn the following certifications & endorsements: NOCTI Small Animal Science & Technology or Precision Small Companion Animal Science; OSHA 10; Cat and Dog First Aid (American Red Cross); and Groomer (not certified).

# Career Exploration Internship Program



The Career Exploration Internship Program (CEIP) is a 1/2-year, 1/2-credit (or 1-year, 1-credit) non-paid internship open to all juniors and seniors. CEIP provides a link between school and possible careers. The program gives students hands-on experience in a variety of careers so that they can become aware of what it is really like to work in those careers.

Students will gain an understanding of the importance of a positive work ethic, timeliness and good study habits. In addition, they will have an opportunity to improve their teamwork and human relation skills. Relationships will be developed between the mentor and the student that could result in recommendation for employment, future careers and/or college. A classroom component is also required.

Individual student interests will be accommodated as much as possible. Internships may occur outside the school day. Students will need to provide their own transportation. Interns must be willing to make completing internship hours a priority. All interested students must complete an application and be interviewed by a Work-based Learning Coordinator.

CEIP was developed cooperatively between the NYS Departments of Education and Labor and fulfills credit toward graduation.

Examples of internships that CEIP students may explore include, but are not limited to:

- Accounting
- Interior Design
- Architecture
- Journalism
- Athletic Training
- Marketing
- Culinary Arts
- Medicine
- Education
- Pharmacy
- Graphic Design

# Work Experience Program



This program allows students to combine work experience with school. Students selecting this program plan a program of work and education with the assistance of their counselor and the Work Experience Coordinator leading to success on the job and in school. The Work Experience Office assists students in their search for a job and, through weekly sessions, explores with students their future career choices and job retention skills. During the working portion of the school day, students are supervised by a Work Experience Coordinator and the employer.

## WORK STUDY - IN DISTRICT

Grades 9, 10, 11, 12  $\frac{1}{4}$ ,  $\frac{1}{2}$  or 1 credit

Students in ninth and tenth grade often work for the school district in a paid work experience position. Job sites are located throughout various district buildings, offices,

cafeterias and with building custodial. A student's work performance is regularly reviewed by the supervisor and the Work Experience Coordinator. Students usually work during blocks 3 and/or 4. Students who successfully complete this program may earn up to one credit.

## WORK EXPERIENCE - OUT OF DISTRICT

Grades 11, 12  $\frac{1}{4}$ ,  $\frac{1}{2}$  or 1 credit

Students in grades 11 and 12 select a school program with afternoon blocks left open to work. Job sites are targeted in the private sector. The Work Experience Coordinator assists students in their search for a job and, through required weekly sessions, explores with students their future career goals. Students who successfully complete this program may earn up to one credit.





**IT'S A  
GREAT DAY  
2 BE A  
*Spartan***

# BHBL

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88 Lakehill Rd, Burnt Hills, New York 12027  
(518) 399-9141, ext. 85002

**[www.bhbl.org](http://www.bhbl.org)**