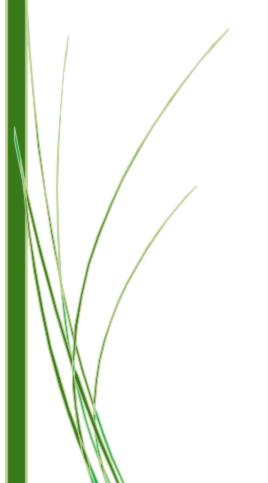
# **Berlin Middle High School**

**CURRICULUM GUIDE 2024-2025** 



Counseling Office BERLIN CENTRAL SCHOOL DISTRICT 17400 Route 22 CHERRY PLAIN, NY 12040

# BERLIN MIDDLE HIGH SCHOOL 2024-2025 CURRICULUM GUIDE

Berlin Middle/High School Department Contacts	5
Graduation Requirements & Diploma Types	6
Pathways to Graduation	7
Diploma Types	8
Earning Credit	9
Student Programming	10
Structi 1 rogramming	10
Visual Arts	14
Studio in Art	14
Introduction to Drawing and Painting	14
Introduction to Sculpture and Ceramics	14
Media Arts	15
Intermediate Studio Art	15
Yearbook Design	15
AP 2-D Design	15
HVCC Survey of Art History I/II	15
HVCC Introduction to Photography	16
Career and Technical Education in Engineering and Technology	16
Design and Drawing for Production	16
Materials Processing	16
HVCC CADD 100 Topics in 2D Auto CAD	16
HVCC Digital Electronics	17
Discovering Computer Science	17
Computer Science and Robotic Design	17
English	17
English 9	17
English 9 Honors	18
English 10	18
English 10 Honors	18
English 11	19
AP English Literature and Composition	19
The Individual in Society	20
Creative Writing	20
Media Literacy	20
Crime Literature	21
Film as Literature	21
Sports Literature	21
Life and Literacy	21
Foreign Language	22
Spanish Culture	22

Spanish 1	22
Spanish IA	22
Spanish IB	22
Spanish II	22
Spanish III	23
HVCC Spanish 200 – Language and Culture IV	23
HVCC Spanish 201 – Language and Culture V	23
Mathematics	24
Algebra I Common Core	24
Algebra Year 1 Common Core	24
Algebra Year 2 Common Core	24
Algebra II Common Core	24
Geometry - Regents	25
Math in Society	25
Consumer Math	25
Pre-Calculus	25
HVCC Math 170 - PreCalculus	26
HVCC Math 180 - Calculus I	26
Siena Math -Number, Logic, Chance and Change	26
Music	27
High School Band	27
Music Appreciation	28
High School Chorus	28
High School Chamber Choir	28
Jazz Band	28
Introduction to Musical Theatre	29
SCCC Music Fundamental Theory	29
Physical Education	29
PE 9/10	31
PE 11/12	31
Sports PE	31
Lifetime Fitness	31
Strength and Conditioning	32
High School Health	32
Health	33
Responding to Emergencies	34
Science	34
Earth Science	34
General Earth Science	34
Living Environment	35
Chemistry	35
Physics	35
General Physical Science	36
Marine Biology	36
Siena Chemistry	37

SUNY ESF Environmental Science	37
Freshwater Studies	37
Independent Study in Science	38
Social Studies	38
Global History I	38
Global History II	38
U.S. History & Government	39
Participation in Government	39
Economics	39
World War II	39
Cold War	41
United States History: Examining Conflicts	41
Siena Psychology	42
HVCC U.S. History	42
Distance Learning	44
Middle School	
Sixth Grade	45
6th Grade ELA	45
6th Grade Math	45
6 <sup>th</sup> Grade Social Studies	46
6th Grade Science	46
6 <sup>th</sup> Grade Health	47
Seventh Grade	47
7 <sup>th</sup> Grade English	47
7 <sup>th</sup> Grade Math	48
7th Grade Compression Math	48
7 <sup>th</sup> Grade Social Studies	49
7 <sup>th</sup> Grade Science	49
7 <sup>th</sup> Grade Spanish 1A	49
7 <sup>th</sup> Grade Technology	49
Eighth Grade	49
8 <sup>th</sup> Grade English	49
8th Grade Math	50
8th Grade Accelerated Math	50
8 <sup>th</sup> Grade Social Studies	50
8 <sup>th</sup> Grade Science	50
8 <sup>th</sup> Grade Spanish - Spanish IB	50
8th Grade Discovering Computer Science	51
8th Grade Family and Consumer Sciences	51
8 <sup>th</sup> Grade Health	51
Middle School Art and Music	52
Middle School Visual Art	52
6th Grade Art	52

7th Grade Art	52
8th Grade Art	52
Middle School Music	53
6th Grade General Music	53
6th Grade Chorus	53
6th Grade Band	53
7 <sup>th</sup> Grade General Music	53
7/8 Band	53
7/8 Grade Chorus	54
8 <sup>th</sup> Grade General Music	54

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# NYS Graduation Requirements

# REQUIREMENTS FOR GRADUATION FOR STUDENTS GRADUATING IN 2024

# **Regents Diploma**

# **Advanced Regents Diploma**

<b>Required Course</b>	Required Credits	Required Course	Required Credits
English	4	English	4
Social Studies	4	Social Studies	4
Math	3	Math	3
Science	3	Science	3
Language other than English (LOTE)	1	Language other than English (LOTE)	3
Fine Arts (art, music, technology)	1	Fine Arts (art, music, technology)	1
Health	.5	Health	.5
Physical Education (PE)	2	Physical Education (PE)	2
Electives	3.5	Electives	1.5
TOTAL	22	TOTAL	22

<sup>\*</sup>Students must earn a minimum of 22 credits to graduate.
\*Students must earn the course credits (listed above) in order to earn a Regents/Advanced Regents Diploma.

#### MULTIPLE PATHWAYS TO GRADUATION

Multiple pathways recognize the importance of engaging students in rigorous and relevant academic programs. The regulations approved in 2015 and 2016 recognize students' interests in the Arts, Biliteracy (LOTE), Career and Technical Education (CTE), Career Development and Occupational Studies (CDOS), Humanities, and Science, Technology, Engineering and Mathematics (STEM) by allowing an approved pathway to meet the students' graduation requirements.



Under the 4+1 Pathway Assessment option, NYS public school students must take and pass **four** Regents Exams or Department Approved Alternative Assessments. The four Regents exam subject areas include: *English language arts, mathematics, science, and social studies*.

#### Outlined below are the 4+1 Graduation Pathway Requirements:

#### NYS PATHWAY REQUIREMENTS

Pathway	Students eligible for this pathway must successfully complete:
Arts Pathway	<ul> <li>An additional Arts course (or sequence) culminating in a Department-approved pathway assessment; and</li> <li>The culminating Department-Approved Pathway Assessment in the Arts.</li> </ul>
Biliteracy (LOTE) Pathway	<ul> <li>Adequate LOTE coursework (based on student proficiency); and</li> <li>The culminating Department-Approved Pathway Assessment in Languages other than English.</li> </ul>
Career and Technical Education (CTE) Pathway	<ul> <li>A Department-Approved CTE Program; and</li> <li>The culminating 3-part technical assessment.</li> </ul>
Career Development and Occupational Studies (CDOS) Pathway	• The CDOS Commencement Credential Requirements (Option 1 or Option 2).
Humanities Pathway	<ul> <li>An additional Social Studies or English Language Arts course culminating in a Regents or Department-approved alternative assessment; and</li> <li>The culminating Regents Exam or Department-Approved Alternative.</li> </ul>
STEM Pathway	<ul> <li>An additional Science or Mathematics course culminating in a Regents or Department-approved alternative assessment; and</li> <li>The culminating Regents Exam or Department-Approved Alternative.</li> </ul>

# **DIPLOMA TYPES**

# Regents Diploma Advanced Regents Diploma (Traditional Pathway)

English Language Arts	English Language Arts
Algebra I	Algebra I, Geometry, Algebra II
Global Studies	Global Studies
U.S. History	U.S. History
One Science Regents (Living/Physical Science)	Two Science Regents (1 Living/1 Physical)
	Language other than English (LOTE) Exam

# Earning Credit

Once students transition into High School they begin to accumulate credits. Upon completing and demonstrating comprehension of the course content (overall passing grade of 65 or higher) students will earn credit for their classes.

NYS Department of Education requires students to meet a certain number of credits in specific content areas to graduate from high school. Students will progress to the next grade depending on the number of credits they accrued in their previous years.

#### Minimum Credits for Grade Level Promotion

Grade 9 = Less than 5 ½ credits Grade 10 = 5 ½ credits Grade 11 = 11 credits Grade 12 = 16 ½ credits GRADUATION = 22

Grad	e 9	Grade 10		Grade 11		Grade 12	
Physical Educat	ion ½	Physical Educati	on ½	Physical Educa	tion ½	Physical Education	on ½
English 9	1	English 10	1	English 11	1	English 12	1
Global Hist. 1	1	Global Hist 2.	1	U.S. Hist.	1	PIG Econ	1/ <sub>2</sub> 1/ <sub>2</sub>
Algebra 1	1	Geometry	1	Algebra 2	1	Math Elective	1
Living Env.	1	Earth Science	1	Chemistry	1	Science Elective	1
Art/Music	1	1 Elective	1	1-2 Electives	1	1-2 Electives	1
Spanish 2	1	Health	1/2				
8th Grade Cre Spanish 1A/1B	edit 1						
TOTAL	7 ½	TOTAL (13 ½)	6	TOTAL (18 ½)	5 ½	TOTAL (24)	5 ½

<sup>\*</sup>Sample 4-Year Student Plan - Regents Diploma Track

<sup>\*</sup>Bolded numbers indicate number of credits earned upon completion of course

<sup>\*</sup>Italicized courses are optional, but highly recommended

<sup>\*</sup>School counselors ensure that students stay on track for graduation by scheduling them for a minimum of 5.5 credits each year.

#### STUDENT PROGRAMMING

#### **ACADEMIC OPPORTUNITIES**

#### **Questar III/Career and Technical Education (CTE)**

11th and 12th grade students are eligible to apply to one of several Questar III's Career and Technical Education (CTE) programs. These hands-on programs provide students with the academic and technical skills necessary to succeed in future careers and to become lifelong learners.

During their 10th grade year, prospective students will have an opportunity to visit their facility at the Rensselaer Educational Center in Troy. After the visit, school counselors will check in with interested students and provide them with their application materials.

Upon acceptance students will earn credits through their program of study. Credits are counted toward diploma requirements at Berlin High School.

CTE courses are scheduled for one-half of the school day (2 ½ hours), Monday through Friday. Students will spend half of the day at the Rensselaer Ed Center and half of the day at the high school.

To be eligible to attend the Rensselaer Ed Center, the student must have successfully completed the following:

English	2 credits
<b>Social Studies</b>	2 credits
Science	2 credits
Mathematics	2 credits
Art/Music	1 credits
Phys Ed	1 credit

CTE courses include: Automotive Technology I & II, Construction I & II, Cosmetology I & II, Criminal Justice I & II, Culinary Arts I & II, Gaming & Multimedia I & II, Heavy Equipment I & II, HVAC I & II, Welding and Fabrication, CNA-Nursing (senior year only).

<u>Career Studies</u>: Auto Services I & II, Intro to Food Services

For more information regarding Questar III/CTE and the programs offered please see your school counselor or visit their website:

https://www.questar.org/education/career-and-technical-education/

#### **New Visions**

New Visions programs are offered through Questar to highly motivated, academically capable and mature high school seniors who are serious about learning more about careers in a specific field. Students will spend their entire day at the New Visions Program.

STEM – Science, Technology, Engineering and Mathematics at RPI.
Visual & Performing Arts – Arts Center of the Capital Region, Troy
Medical - Samaritan Hospital, Troy
Pathways in Education - University at Albany, Albany
Science Research & World Health – University at Albany's Health Sciences Campus,
Rensselaer

# Detailed descriptions of all Career and Technical Education Courses and the New Visions Program are available in the Questar III Course Catalog

http://www.questar.org/education/career-tech-ed

#### **HVCC College in the HS Courses**

Berlin HS is proud to be a part of Hudson Valley Community College's College in the HS program. Through this program, more than 90 college-level courses are offered at high schools across the Capital Region during the regular school day. These courses give students an opportunity to experience a college-level course while still in high school. *College credit can be applied to most four-year colleges and universities. Depending on the school, students may be able to transfer up to 15 credits or more.* 

The cost for college in the high school courses is \$70 per credit hour. Students who qualify for the free and reduced lunch program may also apply to receive the HVCC scholarship to cover the cost of their course. Eleventh and twelfth graders may also be eligible to apply for the Carelli-Gardner Memorial Scholarship.

College in the HS courses that will be offered for the 2024-25 school year at Berlin HS are:

Digital Electronics (Full Year) - ELET 210, 4 credits
Survey of Art History I (Fall) - ARTS 100 3 credits
Survey of Art History II (Spring) - ARTS 101 3 credits
Precalculus (Fall) - Math 170, 4 credits
Calculus I (Spring) - Math 180, 4 credits
Spanish Language & Culture IV (Fall) - SPAN 200, 3 credits
Spanish Language & Culture V (Spring) - SPAN 201, 3 credits
Interpretation of American History I (Fall) - HIST 110, 3 credits
Interpretation of American History II (Spring) - HIST 111, 3 credits

#### **Honors Criteria**

The honors courses for social studies 9-12 will provide students who demonstrate a desire to excel academically a more in-depth inquiry of various social studies themes. These themes will include areas in geography, world history, U.S. History, and U.S. Government and Economics

Parents will receive letters notifying them that their child has been selected to participate in the enrichment program. Please see the attached sheets for the criteria that will determine eligibility for these students.

Berlin High School's Social Studies Department will meet with middle school Social Studies teachers and school counselors to evaluate candidates for the enrichment program.

#### **School Within a School Program**

#### **Goals of the Program:**

- To identify and support students who may be at risk of failure in high school and may have the potential for early withdrawal or late graduation beyond their peers
- To offer an alternative educational program during the school day that meets the needs of those identified students
- This program will offer smaller classes for core subjects; the teaching of study, test-taking, and social-emotional skills; mechanisms for encouraging and celebrating success; and support to improve attendance

#### **Criteria for Student Identification**

- 1. Students must be in 9th, 10th, or 11th grade.
- 2. Students must have a history of struggling with academic content and may have failed one or more classes in the last two years.
- 3. Students may have missed 20 or more days of school in the last one to two years.
- 4. Students with IEPs can be included, contingent upon whether they can be successful in a classroom without direct consultation from a special education teacher.
- 5. Students with disciplinary problems may be welcome, but should be considered carefully. Any students with a history of bullying, aggression, or extremely distracting behaviors towards other students or adults should not qualify.
- 6. Students will be identified for this program by the principal, SWS coordinator, and guidance counselors. They may reach out to the ninth grade team for recommendations.
- 7. The program will be offered to a maximum of twelve students at each grade level 10-12.

#### **Essential Elements of the Program**

- 1. A teacher/SWS coordinator will be assigned to SWS as the lead teacher for the program. This teacher will assist students with work in his/her own class as well as other classes as needed. The teacher will communicate any issues, concerns, or celebrations between students, teachers, families, and the principal. This teacher will track each student's progress towards graduation.
- 2. SWS students will be welcome to use the SWS coordinator's classroom as a home base when they are in need of emotional or academic support. This will be contingent on the students not abusing the privilege.
- 3. SWS coordinator will work closely with guidance counselors, the school social worker, administrators, any special education case managers, and the school psychologist as needed to meet students' social-emotional needs and provide support.

- 4. Students and teachers will collaborate to create goals for students' progress. These goals will be posted in the classroom or otherwise documented and reviewed periodically.
- 5. Student success will be celebrated at regular intervals. The nature of celebrations and the time intervals can be decided upon by students and teachers.
- 6. TA support will be provided in non-co taught SWS courses.

#### **ACADEMIC SUPPORTS**

#### **Academic Intervention Services (AIS)**

Academic Intervention Services (AIS) are additional instruction and/or support services that supplement the instruction provided in the general curriculum and assist students in meeting the State Learning Standards. Academic Intervention Services are intended to assist students who are at risk of not achieving the State Learning Standards in English Language Arts, mathematics, social studies and/or science or who are at risk of not gaining the knowledge and skills needed to meet or exceed designated performance levels on State Assessments.

Academic Intervention Services shall be made available to students with disabilities on the same basis as non-disabled students, provided, however, that such services shall be provided to the extent consistent with the student's Individualized Education Program.

#### **COURSE SELECTION PROCESS**

Berlin Middle High School's goal is for parents/guardians to be informed and more involved in the scheduling process. As students enter and continue on through their high school career, they begin to have more choices in the courses they take. Throughout the scheduling process, we encourage parents and students to review the current year's Course Curriculum Guide to get an understanding of the course description and requirements.

Once your child meets with their school counselor to choose their courses, we encourage parents to look over the course selections your child has requested to take next year, discuss these selections, and reach out to your child's school counselor with any questions or concerns.

#### TRANSITIONING MIDDLE SCHOOL TO HIGH SCHOOL

All eighth grade students will meet individually with their assigned school counselor to discuss their courses for ninth grade. During this meeting, students and their counselor will explore their 4-year high school plan as well as post-secondary goals and interests they have for themselves. Counselors will explain graduation requirements including the required number of credits, courses, and multiple pathways for graduation.

#### Visual Arts

Satisfactory completion of one credit in Studio in Art may be used to meet the one credit of art or music required of ALL students to meet graduation requirements as prescribed by the New York State Education Department.

We believe the most common misconception students have about taking art classes is that you have to already be talented in the arts in order to take them. This is simply not true! Our philosophy is that...EFFORT, PARTICIPATION, ATTENDANCE and a GOOD ATTITUDE are more important than being a skilled artist at this age. That's what we are here for: To teach our students the skills and techniques they need to express themselves creatively within their individual abilities. We develop projects/courses that can cater to the more advanced students, as well as the children that need more guidance and practice.

College preparation is our biggest concern for those students interested in pursuing the arts as a career. Gaining basic knowledge, skills and appreciation for the arts is the goal for our students less interested in making the arts their career.

#### Studio in Art (Full Year Course - 1 Credit)

Prerequisite: None

#### \*You need to take this before taking any other art electives.\*

Studio in Art is the foundation for all other high school art courses. You need to take this before taking any other art electives below, and could be done in 8th Grade as an accelerated course. Students are taught the skills and techniques of how to use and investigate many art media, such as drawing, painting, printmaking, sculpture, ceramics, photography, architecture, illustration and design.

# **Drawing & Painting** (Full Year 1 Credit)

Prerequisite: Studio in Art

For the 2D Artists! Always wanted to learn to draw? In this course, you are taught the techniques of drawing in depth including different techniques in Graphite, Charcoal, Marker, Colored Pencil, Oil Pastel, Collage, Digital Art and more! In this course, you are also taught how to progress in your painting skills, including techniques in Watercolor, Inks, Acrylic and Oil Paint. You don't have to already be a great drawer/painter to take this course!

# Sculpture & Ceramics (Full Year 1 Credit)

Prerequisite: Studio in Art

For the 3D Artists! Do you love working with your hands and building with different types of materials? Love getting messy with clay? This course explores three-dimensional (3D) art through different mixed media. We learn about space and form through exploration of wire, paper, cardboard, polymer, plaster and wire sculptures, among others! We will also investigate many techniques within ceramic pottery (clay) including handbuilding and work on the potter's wheel. Students will learn different forms of construction, as well as surface treatments and glazing.

# Media Arts: (Full Year 1 Credit)

Prerequisite: Studio in Art

The field of "Media Arts" includes Digital Photography, Adobe Photoshop and Printmaking - the triad of tools for Graphic Designers. Graphic Design is the career that designs advertisements, logos, t-shirts, websites and the other media around us. Along with learning the Adobe Suite, including skills in Illustration, Film and Animation, you will learn how to take and edit proper photographs for a well-rounded skill set.

#### **Intermediate Studio** (Full Year 1 Credit)

**Prerequisite:** Studio in Art (It is recommended that some Beginner Electives are taken before this course, but could be taken ahead of time or concurrently with Teacher Recommendation)

Intermediate Studio is the middle level art course to allow students to explore their own fine art-making and get to know the Artistic Process in a deeper, more meaningful way. Students may choose their own path in many media areas including, but not limited to: Drawing, Painting, Collage, Printmaking, Graphic Design, Photography, Sculpture or Ceramics (or a mixture!). This course can also be used for pre-portfolio development for students wishing to take AP Studio Art: 2D Design the following year. It can be taken multiple school years.

# Yearbook (Half Year .5 Credit)

#### Prerequisite: Grades 11 or 12, Studio in Art or Teacher Recommendation

This course explores both Graphic Design and Photography. Students will work both independently and collaboratively designing this year's high school yearbook. Students will be responsible for layouts and documenting different events throughout the school year. Students will also explore a new design program along with Adobe Photoshop.

# AP Studio Art: 2-D Design (Advanced Placement Studio Art in

Two-Dimensional Design) (Full Year 1 Credit)

#### Prerequisite: Intermediate Studio and/or Teacher Recommendation

This college-level course develops a well-rounded AP portfolio demonstrating understanding of 2D Design through drawing, printmaking, photography, graphics and the Art Elements & Principles of Design. Successful completion of this course can be used for the Alternate Pathway to Graduation.

# HVCC Credit Survey of Art History I & II\_(Full Year 1 Credit )

#### Prerequisite: None, Any Student Grades 10-12 with Teacher Recommendation

Most college programs require at least one Art or Art History Course to get your degree. Why not earn those credits while still in High School? We will be exploring the Art and culture from the ancient civilizations to the mid-gothic period in Survey I, and the late gothic period to modern art in Survey II, both through projects, reading, writing, analyzing and, most importantly, discussion! You will leave this course with 6 humanities credits from HVCC. Taking this course is highly recommended for a student wishing to pursue the Visual Arts/Design post-graduation.

# HVCC Introduction to Photography (1 HS Credit, 3 HVCC Credits) Grades 11-12

Why not earn Hudson Valley Community College (HVCC) college credit while learning the basics of the field of photography? Students will learn basic digital photography skills, alternative processes, and manipulation/editing through Adobe Photoshop.

# Career and Technical Education in Engineering and Technology

# Design and Drawing for Production "DDP" (Full Year -1 Credit)

**Grades 9-12** 

\*Fulfills Art/Music Credit

#### **Course Description**

DDP provides students with opportunities to be creative and to apply your decision-making and problem-solving skills to various design problems. Each student will use powerful computer hardware and software (Inventor) to develop 3-D models of objects. Using this computer aided design system you will learn the design process by creating, analyzing, drawing, and producing a model.

# Materials Processing (Half Year .5 credit)

Grades 10-12
Prerequisite: None
Course Description

The Material Processing course is designed to give the learner a wide overview of materials and processes used to transform them. This course focuses on the classifying, properties, and processes of materials and the selection of those materials to be used in applications. Topics explored in processes and materials used in metals, woods, plastics, ceramics, and composites. This course demonstrates unchanging processes used on different materials, as well as specific processes used on certain materials. This course also offers a selection of the use of materials in different applications. Special attention is given to safety in the workshop environment. Major activities include reports, analysis of materials, hands on projects, minor hands on projects, and safe techniques used to process materials.

# HVCC CADD 100 Topics in 2D Auto CAD (Full Year 1 credit)

Grades: 11-12
Prerequisite: None
Course Description

Utilizing current computer aided drafting (CAD) software students will apply standard drafting theory to a diverse set of two-dimensional computer aided drafting applications. Topics included in this comprehensive, introductory level course are: preliminary CAD software techniques, basic computer skills, creation and editing of geometry, plotting, single and multiple views of drawings, coordinate systems, dimensioning and basic block use.

# **HVCC Digital Electronics:** (Full Year 1 credit)

**Grades 11-12** 

\*Eligible for 4 HVCC College Credits, School of Engineering

#### **Course Description**

An introductory course in digital systems. The topics covered include: number systems, Boolean algebra, logic gates, logic simplification, implementation and analysis of digital systems, flip-flops, and counters. Students will explore topics through lectures reinforced by hands-on circuitry labs.

# <u>Computer Science & Robotic Design</u> (Full Year 1 Credit) <u>Grades 9-12</u>

#### **Course Description**

The Computer Science & Engineering Design class will provide extensive learning outcomes, giving students a strong understanding of basic engineering concepts through fun projects that create a collaborative learning environment. Students will be able to connect what they learn with real-world industries, will be encouraged to think critically, and improve their depth of knowledge by learning through experimentation, using an Arduino microcontroller coded using C++ language. The engineering concepts covered include: an introduction to DC motors, servos, encoders, motor drivers, PWM signals, a variety of analog and digital sensors, model based design, signal processing and applied mathematics.

# English

All students must pass four credits of English and the New York State Comprehensive English Regents Examination to meet requirements for graduation.

**English 9** (Full Year 1 credit)

#### Grade 9

#### **Course Description**

This is the first of the 3 years' preparation for the English Regents Examination, administered at the end of the third year of high school English. Emphasis is upon the reading and interpretation of various types of texts, including classical literature, short stories, poetry, investigative journalism, visual texts, and more. Writing skills in a variety of rhetorical contexts are developed and strengthened, in particular in the genre of argument. Students will engage in a variety of conversations and debates in high-interest topics for which they must study a variety of positions and perspectives, determine their own position, and use the "moves" of argument writing. Other genres of writing students will study include expository, letter-writing, and free writing. Vocabulary, spelling, and grammar conventions are studied. Students are expected to work collaboratively, consistently, and conscientiously.

# **English 9 Honors** (Full Year 1 credit)

#### Grade 9

#### **Course Description**

This course takes the English 9 requirements and some of the texts and adds additional rigor and enrichment to the classroom experiences. Students will use more complex texts, delve deeper into topics and discussions, and be expected to read and write at higher levels while exhibiting greater stamina.

# English 10 (Full Year 1 credit)

#### Grade 10

# **Course Description**

The primary goal of English 10 is to integrate learning with engaging activities that promote fun ways to strengthen student's depth of knowledge regarding worldly themes. Many interesting units serve as supplements to personal exploration and interaction with literature—both classic and modern. From the shortest stories to the longest novels, with plenty of pit stops in between; we have a full load of reading and analyzing ahead of us. Lectures and notes will be taken regularly, but they are not the best way for everyone to learn. Students can be ready to get up and move around as they weave their own ideas and their own learning strategies into the dynamic curriculum. Writing is a central focus in this course and students will be encouraged to explore creative writing outlets as well as practice more formal and analytical styles of writing. Through analysis of songs, poems, short stories, novels, videos, movies, and TED Talks, students will exit English 10 with a broader mindset that is ready to engage with the modern world. Important themes discussed throughout the year are Personal Narrative, Self-Discovery, The American Dream, and Perception vs. Reality, Morality, Ambition, Corruption, Young Adult Life, School Society, Acceptance, Violence, and Bullying. Key novels we will focus on are: Jellicoe Road by Melina Marchetta, Monster by Walter Dean Myers, Of Mice and Men by John Steinbeck, Macbeth by William Shakespeare, and Speak by Laurie Halse Anderson.

# English 10 Honors (Full Year 1 credit)

#### Grade 10

#### **Course Description**

The grade 10 honors course will be designed to challenge those students coming from ninth grade who demonstrate a desire for a superior skill level in reading and writing. Objectives: There will be less time reviewing basic skills and more time on analytical and critical discussions of literature. There will be a broader range of literary works covered, which will enable the students to make comparisons between different writers' perspectives on common themes. Because of this broader range of literary examples studied, the student will be able to "see" how these relate to other fields of study such as global studies, science, etc. There will be four major writing assignments. These will relate to the themes covered in each quarter. The major literary forms covered will include: biographies, fiction, critical essays, non-fiction works, and drama.

# English 11 (Full Year 1 credit)

#### Grade 11

#### **Course Description**

"The New York State grade 11 curriculum...continue[s] to develop students' skills in analyzing complex literary and informational texts as students delve deeply into works by acclaimed authors and historical figures.... Through the study of a variety of text types and media, students build knowledge, analyze ideas, delineate arguments, and develop writing, collaboration, and communication skills.... Students read, discuss, and analyze literary and nonfiction texts focusing on how authors relate textual elements, such as plot, character, and central ideas, within a text.... Key protocols and routines for reading, writing, and discussion will continue throughout the year... Students read, discuss, and analyze literary and informational texts, focusing on how authors use word choice and rhetoric to develop ideas and advance their points of view and purposes.... Students engage in an inquiry-based, iterative process for research. Building on [earlier] work with evidence-based analysis..., students explore topics that lend themselves to multiple positions and perspectives. Students gather and analyze research based on vetted sources to establish a position of their own.... Students read, discuss, and analyze literary texts, focusing on authors' choices in developing and relating textual elements such as character development, point of view, and central ideas, while also considering how a text's structure conveys meaning and creates aesthetic impact. Additionally, students learn and practice narrative writing techniques as they examine the techniques of the authors whose stories students analyze."

Students self-select independent books based on interests and reading levels; they are expected to read independent texts several times a week. Vocabulary and grammar are also studied. Regents practice is incorporated, and the Common Core ELA Regents examination is administered.

# AP English Literature and Composition (Full Year 1 credit) Grade 12

#### **Course Description**

The AP English Literature and Composition course aligns to an introductory college-level literary analysis course. The course engages students in the close reading and critical analysis of imaginative literature to deepen their understanding of the ways writers use language to provide both meaning and pleasure. As they read, students consider a work's structure, style, and themes, as well as its use of figurative language, imagery, symbolism, and tone. Writing assignments include expository, analytical, and argumentative essays that require students to analyze and interpret literary works.

Students enrolled in this course will be expected to take the AP Literature and Composition exam in May (cost of exam for the 2018-19 school year was \$85/\$53 for students qualifying for F&R lunch).

#### **ENGLISH DEPARTMENT ELECTIVES**

# The Individual in Society (Half Year .5 credit)

#### **Grade 10-12**

#### **Course Description**

The Individual in Society is an elective English course that prompts students along a journey of introspection and self-discovery through the modern lens of society. With roots and philosophy stemming from both sociology and literature, the course promotes societal thinking while students ask themselves just what kind of influencer they want to be. Primarily taught through discussion and small projects, The Individual in Society engages with the concept of change, who one wants to be, how one wants to act, and how the world is influenced by individual choice and reason. In this class students will be encouraged to push boundaries and explore beyond traditional conventions of the classroom. Thinking of modern issues, seniors will have the opportunity to interact with their learning and tailor certain elements to their own personal interests. Using English and literary conventions as background tools, seniors will construct a unique learning experience that prepares them for the next step in their young adult lives.

# **Creative Writing** (Half Year .5 credit)

#### **Grade 10-12**

#### **Course Description**

This is a half-year course to be offered to seniors as half of an English 12 credit. The course requires students to explore and complete writing in a variety of genres, including poetry, creative nonfiction, short fiction, and drama. The writing process involves peer response. Reading from a variety of contemporary literature is also required. At the end of the course, the class may publish a compilation of student work.

# Media Literacy (Half Year .5 credit)

#### **Grades 10-12**

#### Course Description

Media Matters is an inquiry into the role of the news media in our country. Using a wide-range of texts, including news articles, interviews, and film, students will study the ten central tenets of journalism and how they are demonstrated or distorted by a wide range of press. Students will learn how to guard against echo chambers, assess a site's credibility, and search for shards of truth in the abundance of information that inundates us by the minute. Students will learn how they can use the foundations of journalism to be more aware, informed, and empowered citizens.

#### Crime Literature (Half Year .5 credit)

#### **Grades 10-12**

# **Course Description**

This course will examine true crime literature and crime in fiction since its inception. Texts may run chronologically from Poe to Capote to Cranor and everything in between. Because of the nature of the subject matter, some material may be graphic.

# Film as Literature (Half Year .5 credit)

#### **Grades 10-12**

#### Course Description

Introducing a brief history of film before bringing students to modern cinema, *Film as Literature* aims to develop students' ability to analyze various film genres, techniques, thematic connections, social messages, and more. The course will focus on six general units, with at least one essay or project due per unit. By the end of the course students will have the knowledge, skills, and ability to lead the class in a 30-40 minute lesson on a classic film of their choosing. To culminate the course students will submit a detailed portfolio of film review as well as a final essay that examines their literary perspective as a film critic.

# **Sports Literature** (Half Year .5 credit)

#### **Grades 10-12**

#### **Course Description**

From baseball to boxing - and bowling? - Americans love sports. This course will examine the varied roles sports play in our culture and lives. Using a variety of texts, including statistical data, news and magazine articles, and documentaries, students will investigate the issues that interest sports enthusiasts. Topics include concussions in football, paying college athletes, women in sports, and the intersection of patriotism in the sports industry. Students will engage in discussions, debates, and writing using evidence-based arguments, as well as be expected to demonstrate good intellectual sportsmanship on the classroom field.

# Life and Literacy (Full Year 1 credit)

#### **Grades 10-12**

#### Course Description

Life & Literacy is an English elective focused on giving students life skills they can use after graduation and finding enjoyment in reading and writing. Throughout this year-long course, students read books that introduce them to experiences and perspectives different from their own, work on creative projects, apply English skills to their own lives and interests, and prepare for life after high school by doing presentations, drafting resumes, cover letters, and completing mock interviews.

# Foreign Language

# Spanish Culture (Full Year 1 credit)

#### Grades 9-10

#### Course Description

Students will learn about the culture and geography of Spanish speaking countries through the use of readings, movies, and documentaries. They will do weekly current events about a Spanish speaking country. This course is only offered to students that did not successfully complete Spanish 1A and 1B or have never taken a second language.

# **Spanish 1A** (Full year .5 credit)

#### Grade 7

#### **Course Description**

This course is an introduction to the basics of the Spanish language and cultures. The four primary language skills of hearing, speaking, reading and writing will be covered. Students will learn grammar and vocabulary through reading short stories. They will develop speaking skills through conversation and working with partners and in groups. Students will explore Hispanic cultures.

# **Spanish 1B** (Full year .5 credit)

#### Grades 8

#### **Course Description**

This course is a continuation of Spanish 1A. The completion of both 1A and 1B give students their first HS credit of Spanish. The four primary language skills of hearing, speaking, reading and writing will be covered. Students are expected to learn vocabulary. They are also expected to speak conversationally with partners and in groups. Students will explore Hispanic geography and cultures. The completion of Spanish 1A and 1B results in 1 high school credit of a foreign language.

# **Spanish II** (Full year 1 credit)

**Grades 9-12** 

Prerequisite: Spanish I

#### **Course Description**

Spanish II focuses on the development of communication and comprehension skills. Learning activities are similar to Spanish I. Knowledge of vocabulary and commonly used idioms is expanded. Emphasis is placed on grammar. Conversational proficiency is developed through the use of dialogues. Students will increase their language skills through reading chapter books in Spanish.

# **Spanish III** (Full Year 1 credit)

**Grades 10-12** 

Prerequisite: Spanish II

#### **Course Description**

In Spanish III all four skills (understanding, speaking, reading and writing) are integrated. Students will read and use authentic sources from the target language. They will learn about the geography, history, and culture of Spanish speaking countries. Students will focus on speaking skills through oral readings, conversation and presentations.

#### **ADVANCED FOREIGN LANGUAGE ELECTIVES**

# HVCC Spanish 200 – Language and Culture IV (Full Year 1 credit)

**Grades 11-12** 

Prerequisite: Spanish III

#### **Course Description**

This class offers a review and extension of grammar and concentrates on improving the student's vocabulary, conversational fluency and reading skills through the discussion of selected readings in Spanish. Classroom discussions, conducted primarily in Spanish, are supplemented with exercises from the textbook. As part of the HVCC College in the High School program students wanting to receive college credit for the course will be required to complete the HVCC application and pay for the credits.

# HVCC Spanish 201 – Language and Culture V (Full Year 1 credit)

**Grades 12** 

Prerequisite: Spanish IV

#### Course Description

A continuation of Spanish IV/HVCC Span200, this course completes the review of Spanish grammar and provides more reading of Spanish works. Classroom discussions, conducted primarily in Spanish, concern classroom readings and Spanish customs and culture. This course is primarily designed for students who have completed Spanish III or no more than three or four years in high school. As part of the HVCC College in the High School program students wanting to receive college credit for the course will be required to complete the HVCC application and pay for the credits.

#### **Mathematics**

All students must earn three credits in mathematics to meet requirements for graduation with a Regents diploma. All students who wish to receive an Advanced Regents diploma must successfully complete Algebra, Geometry and Advanced Algebra and Trigonometry and pass the state regents exams.

#### MATH REGENTS PREPARATION PROGRAM

The college bound students should recognize that a regents program in mathematics might not fulfill the requirements for admission into scientific and technical programs at many local colleges.

# Algebra I Common Core (Full Year 1 credit)

#### **Grades 9-12**

#### Course Description

This course covers the following topics: the language and properties of algebra; basic operations with real numbers; solving and graphing linear equations and inequalities; basic operations with polynomials; factoring polynomials; solving and graphing quadratic equations; basic operations with radical expressions; basic probability and statistics. This course is offered over one or two years. In order to receive a high school diploma, a student must pass both the course and the required Regents exam.

# Algebra II Common Core (Full Year 1 credit)

#### **Grades 9-12**

#### **Course Description**

This course covers the following topics: Review of Algebraic Essentials; Functions as the cornerstones of Algebra II; Linear Functions, equations, and their Algebra; Exponential and logarithmic functions; Sequences and Series; Quadratic functions and their algebra; Radicals and the quadratic formula; Complex numbers; Polynomial and rational functions; Circular Functions; Probability and Statistics. This is a one-year course that ends with a Regents exam.

# Algebra Year 1 Common Core (Full Year 1 credit)

#### **Grades 9-12**

#### **Course Description**

This course covers the first half of the topics covered in Common Core Algebra I. This is the first year of a two-year course that ends with a Regents exam in the second year.

# Algebra Year 2 Common Core (Full Year 1 credit)

#### **Grades 9-12**

#### **Course Description**

This course covers the second half of the topics covered in Common Core Algebra I. This is the second year of a two-year course that ends with a Regents exam in June.

# **Geometry** - Regents (Full Year 1 credit)

**Grades 9-12** 

Prerequisites: Successful completion of Algebra Regents

#### **Course Description**

This course covers the following topics: Points, lines, planes, and angles; inductive and deductive reasoning and proofs; parallel and perpendicular lines; Congruent Triangles; triangle parts and relationships; similar triangles and polygons; right triangle trigonometry; properties of quadrilaterals; transformations; circle parts and relationships; area of polygons and circles; surface area and volume of three dimensional figures. This course is a one-year course with a Regents exam at the end.

# Math in Society (Full Year 1 credit)

**Grades 10 - 12** 

#### Course Description

Math in Society is a non-regents real world math course that fulfills a third year math graduation requirement. The class culminates in a local final project as opposed to a NYS Regents Exam. As such, a passing grade in this class will earn the student a math credit, but not a credit toward an advanced regents diploma, nor provide the required prerequisite to Algebra II.

Math in Society will focus on math concepts used in the real world. Topics can include, but are not limited to, definitions in geometry, transformations, area and perimeter, measurements, trigonometry, volume and surface area, basics of coordinate geometry, applications of algebra and Geometry with the graphing calculator, and basic probability and statistics. Each topic will include ties to everyday applications of math to the real world.

# **Consumer Math (Full Year 1 credit)**

**Grade 10-12** 

#### Course Description

This full year, one credit Math course allows students to gain knowledge and application of basic financial principles in order to make sound financial life choices. The *Consumer Math* curriculum will help students to learn life skills through technology, discussions, writing, and real working examples to create a more interactive curriculum that will be beneficial to students.

# Pre-Calculus (Full Year 1 credit)

**Grade 11-12** 

Prerequisites: Successful completion of Algebra II

#### **Course Description**

Precalculus is a course designed for the math/science oriented college-bound student. Topics of study include but are not limited to trigonometry, probability, matrices and determinants, polynomial functions, and conic sections. This course would be followed by HVCC Precalculus and Calculus.

#### **ADVANCED MATH ELECTIVES**

# HVCC Math 170 - PreCalculus (Half Year .5 Credit)

#### **Grade 11-12**

(May be taken without college credit)

#### Course Descriptions

Math 170 - PreCalculus

This course explores the study of algebraic and transcendental functions and their graphs, complex numbers, DeMoivre's Theorem, and applications of these concepts.

**NOTE:** A graphing calculator may be required and will be discussed at the first class.

# HVCC Math 180 - Calculus I (Half Year .5 Credit)

#### **Grade 11 and 12**

Prerequisite: MATH 170, Precalculus or the equivalent.

#### **Course Description**

Topics covered include but are not limited to: limits, continuity, differentiation and integration of elementary functions (including transcendentals), with applications to curve sketching, optimization problems, related rates, area under a curve problems, and solutions to elementary differential equations.

**NOTE:** A graphing calculator may be required and will be discussed at the first class.

# Siena Math 100-Number, Logic, Chance and Change (Full Year 1 Credit)

#### **Grade 11-12**

\*You also receive 3 college math credits from Siena College for the course.

Prerequisite: Regents Geometry

#### **Course Description**

In this class we will work on how to build our confidence with public speaking and develop our skills in creating well thought out presentations. We'll learn about the different types of math that we won't see in a typical classroom and have in-depth decisions about mathematical problems/ challenges. Students will work together in groups and communicate to apply theory and reasoning to hands-on, real life, interesting (even fun at some points), and applicable math. The course is more project based, teamwork based, work with freedom to learn what you want.

This course focuses on applied and theoretical mathematical topics. Topics from the textbook can include (but are not limited to):

Ch.1 Getting Started (Patterns and relationships)

Ch.2 Algorithms, Functions and Equations

Ch.3 Dimensional Analysis

Ch.4 Money Matters

Ch.5 The Science of secrecy

Ch.6 Calculus: The Smallest Pebble on the Beach

Ch.7 Mathematical Models

Ch.8 Arithmetic

Ch.9 Powers, logarithms and Exponential Change

Ch.10 Alternative Geometries

Additional topics that we study are:
Math related to your hobbies and interests
Puzzles
Coding
Real life applications of mathematics
Statistics and Probability
Paradoxes
Math in the Movies
Non-Euclidean Geometries
Alice in Wonderland

#### **Requirements:**

\*3 College Approved Exams from Siena College

\*Math nights: For math nights we create math related games for students, and for the public to learn and have fun, these games will show them that math can be fun and interesting. The math nights are a way to show the public what we've been learning. The course requires us to complete at least one per year.

\*Movie/book assignments for the quarter: In this class you will research a movie and a book then you will make a presentation on how math was related to the book or movie. In the presentation you should implement an activity that gets the class involved and interested.

# Music

Satisfactory completion of Music Theory, Music in Our Lives, or one credit of Band, Chorus or Guitar meets the one credit of art or music required of all students to meet graduation requirements as prescribed by the NYS Education Department.

High School Band (Half Year .5 credit)

**Grades 9-12** 

#### **Course Description**

- Study and perform music of diverse time eras, cultures, religions, and styles.
- Expand on music literacy, knowledge of music history, and theory.
- Demonstrate proper playing technique and instrument care including breath support, good tone, and maintenance.
- Develop habits that encourage success and professionalism within and outside the music classroom.

# Music Appreciation (Full Year 1 credit)

#### **Grades 9-12**

#### **Course Description**

- Listen and respond to a wide variety of music genres.
- Improve music literacy through performance on keyboard or guitar.
- Understanding music history.
- Understanding music theory.
- Encourage creativity through improvisation and compositions.

# High School Chorus (Half Year .5 credit)

#### **Grades 9-12**

#### **Course Description**

- Study and perform music of diverse time eras, cultures, religions, and styles.
- Expand on music literacy, knowledge of music history, theory and aural skills.
- Demonstrate proper singing technique and vocal care including breath support, good tone and diction, and proper voice placement.
- Develop habits that encourage success and professionalism within and outside the choral classroom.

# High School Chamber Choir (Half Year .5 credit)

#### **Grades 9-12**

#### **Course Description**

- Study a variety of genres of choral music.
- Fostering tonal independence with mostly a cappella performance.
- Understanding of music literacy when relating to a variety of genres.
- Provide additional performance opportunities.

# Jazz Band (Half Year .5 credit)

#### **Grades 9-12**

Prerequisites: Minimum of two years experience playing their instrument

#### **Course Description**

#### Program Goals:

- Study a variety of genres of music (including but not limited to: Jazz, Blues, Swing, Rock, Pop, etc)
- Fostering solo performance and improvisational skills on their primary/secondary instruments
- Understanding of music literacy when relating to a variety of genres (including but not limited to: Jazz, Blues, Swing, Rock, Pop)
- Provide additional performance opportunities

# **Introduction to Musical Theatre** (Half Year .5 credit)

#### **Grades 9-12**

#### **Course Description**

Program Goals:

- Use knowledge learned in Intro to Theatre to produce a well-conceived musical production.
- Develop time management skills through creating a rehearsal calendar & coordinating performance dates
- Develop budgetary skills through ordering materials, supplies and creating a budget
- Develop production staff skills through successful completion of production job title

# SCCC Music Fundamental Theory (Full Year 1 credit) Grades 10-12

# Course Description

Program Goals:

- Develop competencies in the reading and writing of notes, scales, key signatures, intervals, chords, and rhythmic elements.
- Basic music theory, music history
- Playing piano
- Composing

# Physical Education

The physical education program focuses on the study, practice and application of the art and science of human movement. The goal of this course is to engage, challenge, and motivate the student in a variety of sports, recreational skills, and fitness activities in a safe environment that encourages character building and lifelong fitness.

#### **NYS Learning Standards**

**Standard 1:** Personal Health and Fitness; Students will have the necessary knowledge and skills to establish and maintain physical fitness, participate in physical activity, and maintain personal health.

**Standard 2:** A Safe and Healthy Environment; Students will acquire the knowledge and ability necessary to create and maintain a safe and healthy environment.

**Standard 3:** Resource Management; Students will understand and be able to manage their personal and community resources.

#### **Character Education**

Through our physical education program, the students will be given the opportunity to demonstrate various character education traits. These traits will be displayed through various activities such as skill development, knowledge of rules, and team play. These character education traits are identified as the following: *Trustworthiness, Respect, Responsibility, Fairness, Caring, Citizenship, Honesty, Courage, Diligence, and Integrity.* 

#### **Objectives:**

- Possess a lifelong desire to maintain a healthy level of physical fitness and wellness.
- Practice safety and risk reduction.
- Demonstrate good character in all activities.
- Develop respect, compassion, and tolerance for other students.
- Take responsibility for his/her own actions.
- Appreciate teamwork and the group process.

#### **Mission Statement**

The mission of the physical education program at BCSD is to prepare students for a lifetime of health and well-being through active participation in a wide variety of team and individual sports, recreational, lifetime and fitness activities. Active participation will provide an opportunity for students to become competent in many and proficient in a few of these activities. The ability to confidently and knowledgeable engage in physical activity encourages a positive attitude that results in lifelong fitness and movement.

#### **Required Materials**

- Shorts and tee shirt
- Sweatpants/yoga pants
- Sweatshirt or Hoodie
- Sneakers
- Hand Sanitizer
- Deodorant
- Hair Ties (if applicable)
- Notebook

#### **Expectations**

- To have fun
- To challenge one's physical ability while maintaining self control and the safety of others
- Participation in each and every class
- Preparedness in each and every class
- Fair play
- To put forth effort
- Growth and achievement
- Athletes who do not participate in physical education class will not be allowed to participate in practices/athletic events that day.

# Physical Education 9/10 (Half Year .5 credit)

#### Grades 9-10

#### **Course Description:**

The focus of physical education I is to provide students the opportunity to demonstrate the knowledge and skills to achieve a health enhancing level of physical activity and fitness. We will be focusing on ensuring students recognize the value of physical activity for overall wellness, enjoyment, challenge, and/or self-expression. Evaluation will be based on students demonstrating competency in a variety of motor skills, dance and movement patterns (sport skills, dance movement patterns, fitness and lifetime activities), as well as, exhibiting social and personal behavior that respects self and others.

# Physical Education 11/12 (Half Year .5 credit)

#### **Grades 11-12**

#### Course Description:

The focus of physical education II is for students to apply principles, concepts and tactics in a variety of sports, dance and movement activities (locomotor, non locomotor, communicative, and manipulative skills). Students will recognize the value of physical activity for overall wellness, enjoyment, challenge, and/or self-expression, while exhibiting social and personal behavior that respects self and others. Students will leave this class with the knowledge and understanding to recognize career opportunities and manage personal and community resources related to physical activity and fitness to achieve and maintain overall wellness.

# **Sports PE** (Half Year .5 credit)

#### **Grades 9-12**

#### Course Description:

This course selection is an in-depth and intensive physical education class that emphasizes team sports and vigorous participation. Each unit will be 6-8 weeks in length. Students will be expected to learn and understand the rules, skills, etiquette and strategies necessary to be proficient in a variety of activities. Students will participate in a team setting. A student's grade will be based on his/her ability to demonstrate the skill, knowledge and strategy of the activity. Students will be expected to be prepared to play. Teamwork, cooperation and good sportsmanship will be required.

# <u>Lifetime Fitness</u> (Half Year .5 credit)

#### **Grades 9-12**

#### **Course Description:**

This course selection emphasizes fitness related activities, individual and lifetime sports. Each unit will be 4-6 weeks in length and will include the four components of physical fitness (strength, flexibility, muscle endurance and cardiovascular endurance). Students will be engaged in 30-40 minutes of moderate activity. A student's grade will be based on his/her participation and activity level as it relates to his/her ability. Students will be expected to keep a journal and track progress.

# **Strength and Conditioning** (Half Year .5 credit)

#### **Grades 11-12**

#### **Course Description:**

This course will provide opportunities for students to develop and display safe strength training techniques in an atmosphere focused on their own personal improvement development. Strength training is an important part of a total fitness routine. Students will also be provided an opportunity to learn and practice technique and etiquette in a fitness center environment. Activities in this course are designed to utilize small groups, few rules and meaningful practice to maximize student engagement.

#### Expectations:

Students will be expected to physically engage in all course related activities daily.

Proper dress and attire similar to Physical Education Classes (t-shirts, shorts, sweaters). Students will also be required to keep a hard or digital copy of their workouts.

Personal workout plans will be devised with student input during the course

Students must demonstrate a measure of personal growth during the course of the class.

#### Grading:

60% Participation 20% Demonstration of Knowledge 20% Cumulative Notebook

# High School Health

# **Health** (Half Year .5 credit)

#### Grade 10 & 11

#### **Course Description**

- The purpose of this course is to provide students with information to make healthy choices, understand the benefits of a healthy lifestyle, identify risky behavior, and manage personal physical, mental and social health.
- Offer the necessary skill to access valid safe and reliable resources to obtain accurate health products and services.
- Understand the connection of one's physical, emotional and social health in regard to one's overall well- being and quality of life

#### Required Material

Folder with pockets and tabs Journal Access to the school's computer via con

Access to the school's computer via computer use form USB

#### **Grading Policy**

Project and Assessment-20% Daily Participation-50% Current Events-10% Notebook & Journal-20%

#### Class Requirements

Preparedness

Participation

Reflection

Self-evaluation

Class discussion

Demonstration of understanding of the material

#### Functional Knowledge

Physical activity and nutrition

HIV/AIDS

Sexual risk

Tobacco, alcohol and other drugs

Family life/relationships/ sexual health

Unintentional injury

Violence prevention

Stress, anger, depression and suicide

# Responding to Emergencies (Half Year .5 credit)

20 weeks

First Aid/CPR/AED Certification Course

#### Course Description

The purpose of this course is to help participants recognize and respond appropriately to cardiac, breathing and first aid emergencies until advanced medical personnel arrive using American Red Cross Approved curricula written lessons, practicum, scenario re-enactment and video clips

#### **Course Requirements:**

- Students must be at least 16 years of age
- Students must be in attendance for a minimum of 85% of the classes (See attached contract)
- To actively participate in each and every class
- To know the three steps of a cardiac, breathing or first aid emergency
- To make a commitment to learn, understand and administer the appropriate care until advanced medical personnel arrives
- Three Hours of community service TBD. clean and maintain first aid equipment, inventory and replenish coaches' first aid kits, assist coaches as a first aid manager, promote safety and violence prevention, mandatory one hour of service at a community firehouse
- To score an 80 or higher on the ARC responding to emergencies examination

#### Science

Pursuant to Section 207 of the NYS Education Law, Section 8.2(c) of the rules of the Board of Regents states, "only those persons who have satisfactorily met the laboratory requirements as stated in the State Syllabus for a science shall be admitted to the Regents examination in such science."

Successful completion of the State mandated laboratory requirement will be satisfied when the student has completed 1200 minutes of hands-on laboratory experience.

All students must earn three units of credit in science to meet requirements for graduation with a Regents diploma. Of the three units, one must be from the Living Environment curriculum and one from the Physical Setting.

Students who desire an Advanced Regents diploma must earn three units of credit in any of the four Regents Science courses including the passing of two New York State Regents examinations in respective Science courses (One Physical Setting and Living Environment).

# **Earth Science** (Full Year 1 credit)

#### **Grades 10-12**

(1 Physical Setting Credit)

#### **Course Description**

This course provides students with a better understanding of the constant changes occurring on their home planet and studies the relationship between Earth and other objects in our solar system and universe. This course follows the New York Curriculum. There is a heavy emphasis on laboratory work and reports. A Regents examination is required and there is a mandatory lab requirement in order to qualify for the Regents exam in Earth Science. Areas of study include: Physical geology, historical geology, astronomy, climatology, meteorology, and oceanography. Success in this course requires that the student write extensively and do homework regularly. Final examination: NYS Regents Examination

# **General Earth Science** (Full Year 1 Credit)

#### Grade 10

(Non-regents)

Prerequisites: Regents Living Environment

#### **Course Description**

This course provides students with a better understanding of the constant changes occurring on their home planet. Students will study the natural phenomenon that are experienced by the Earth and the relationship between Earth and other objects in our solar system and universe. Coursework will include laboratory work, hands on investigations and projects.

Coursework with include laboratory work, flands on investigations and pro-

Final examination will consist of a final project.

# <u>Living Environment</u> (Full Year 1 credit)

#### **Grades 9-12**

(1 Living Environment credit)

#### **Course Description**

This is a laboratory course, which also includes lectures and class discussions. Topics covered include: cells, biochemistry, plants, and animals, reproduction, genetics, evolution, and ecology. The final examination is the New York State Regents Examination in Living Environment. The student is also required to complete a specific number of laboratory experiments. A Regents examination is required.

Great emphasis is placed on language usage, reading comprehension, and writing. Regular outside - of - class preparation is essential.

Final examination: NYS Regents Examination

# **Chemistry** (Full Year 1 credit)

#### **Grades 10-12**

(1 Physical Science credit)

**Prerequisite**: Satisfactory completion of the Regents exam in Earth Science, Algebra and Geometry, Living Environment

Recommendation: Successful completion of algebra and geometry, including a passing grade on the algebra regent's exam and an average of 70 or better in a regent's science class. Students wishing to take chemistry concurrently with geometry should have achieved a final average of 85 or better in a regent's science course. A student who has achieved less than 85 in Algebra may expect considerable difficulty.

# **Course Description**

The chemistry curriculum focuses on matter, its composition, properties and changes, and the energy relationships in chemical change. This is a comprehensive chemistry course dealing with the substances of the physical world and their interactions at the particle level.

Topics include: atomic structure, chemical bonding, periodic properties, acid-base chemistry, electrochemistry, and organic chemistry. Chemistry classes are scheduled to meet the state laboratory requirements. A Regents examination is required. Considerable outside-of-class preparation is required.

Final examination: NYS Regents Examination

# Physics (Full Year 1 credit)

#### **Grades 11-12**

(1 Physical Science credit)

Prerequisite: Algebra 2/Trigonometry, Chemistry or 2 credits in science and teacher recommendation.

Recommendation: Algebra including a passing grade on Geometry regents examination OR have passed Algebra2/Trigonometry. All physics students must be enrolled in a math course.

#### Course Description

Physics represents a comprehensive curriculum including the principles of mechanics, sound, light, electricity, magnetism, and atomic physics. Students planning to take this course should be well grounded in the mathematical skills of Algebra and the Trigonometry of right triangles. The content and methods of this course are indispensable components of all four year college programs in engineering and the physical sciences and many two-year technical programs.

Physics classes are scheduled to meet the laboratory requirements. A Regents examination is required.

Final examination: NYS Regents Examination.

General Physical Science (Full Year - 1 credit)

**Grades 11-12** 

Prerequisites: 1 year life science and 1 year physical science

#### **Course Description:**

Emphasizes application and science skills needed to understand the physical worlds we live in. Students will utilize technology, laboratory activities, problem-solving and critical-thinking skills to enhance understanding and application of scientific reasoning. Students will apply engineering practices to design and refine devices that employ scientific principles such as energy and momentum. This course includes concepts from physics and chemistry. Students will learn the basic concepts of Newton's laws, energy, light, structure of matter, chemical equations, etc.

Final exam will be project-based.

# Marine Biology (Full Year 1 credit)

#### **Grades 10-12**

(1/2 Living Environment credit)

Prerequisite: Two science credits, one must be Regents Biology/Living Environment and a passing grade on a Regents science examination OR successful completion of BOTH the Living Environment and Earth Science or General Science.

#### **Course Description**

The theme of this course will be meeting the challenges presented to organisms by the marine environment. The course will provide an overview of the physical marine environment including geography, physics, and chemistry of the ocean. Students will be introduced to the taxonomy and anatomy of the organisms with an emphasis on those that appear in the marine environment. Students will conduct lab activities, study and maintain a marine habitat, and learn about careers in this field of science whose subject covers over 70% of our planet. This course is designed to fulfill the .5 credit of the 3 credit science requirements.

Final examination: Portfolio of student work and observations of marine environment, in addition to a written exam.

## <u>Siena Chemistry(</u>Full Year 1 credit)

#### **Grade 11-12**

Prerequisite: Successful completion of Regents Chemistry with 80% or better final student average, teacher recommendation, and successful completion of Geometry.

Corequisite: of Regents Physics

#### **Course Description**

Siena Chemistry consists of two college level courses designed as a second chemistry course for high school students. Many topics in the course will be extensions of those studied in Regents chemistry. Each course also has an additional lab period. Students will take a final exam at the end of each course. There is a cost associated with this course

#### CHEM - 110, 111 - 4 college credits (3 credits + 1 credit lab)

Topics: Fundamental laws and principles of chemical structure and reactivity. This can include the study of atomic models, stoichiometry, periodic trends, molecular theories, reaction types, nuclear chemistry, gasses and kinetic molecular theory.

CHEM - 120, 121 - 4 college credits (3 credits + 1 credit lab) Topics: Properties of solids and solutions, intermolecular forces, thermodynamics, equilibrium, acids and bases, chemical kinetics, and electrochemistry.

<u>SUNY Environmental Science</u> (Full Year 1 credit) (3 SUNY ESF credits) (AP exam optional) (SUNY ESF - EFB 120 - The Global Environment and the Evolution of Human Culture)

**Grade** 11 & 12

Prerequisite: Regents Living Environment, Regents Earth Science

Corequisite: Regents Chemistry

#### Course Description

The Global Environment will help you to gain the knowledge and tools to make informed decisions regarding the environment and the earth's future and to be able to understand the connections between such varied topics as pollution, deforestation, climate change, acid rain, soil depletion, economics, evolution, history and social justice. The course stresses a science based systems approach in evaluating problems and potential solutions as well as the critical role of energy in many of the environmental challenges facing the world.

Coursework will concentrate on hands-on activities and projects, including fieldwork and labs.

As part of the SUNY ESF College in the High School program students wanting to receive college credit for the course will be required to complete the SUNY ESF Registration and pay for the credits (approximate course fee of \$200). Financial help is available to students who meet criteria.

Students will also have the option to take the AP Environmental Science exam in addition to the SUNY ESF credits. Students may earn additional college credits based on their AP exam score (approximate test fee \$86.)

# Science Department Independent Studies

Freshwater Studies (Full Year .5 credit)

**Grades: 11-12** 

Prerequisites: Successful completion of Regents Living Environment and Earth Science

(regents or non-regents)

#### **Course Description**

This is an independent study course that is pass/fail. This course is designed for students that are interested in environmental science and want to learn about our local freshwater ecosystems. Coursework will include setting up and maintaining freshwater ecosystems and monitoring the health of all organisms in the ecosystems.

# **Independent Study in Science** (Full Year .5 credit)

**Grades: 11-12** 

Prerequisites: Successful completion of three credits in science or two credits in science with a corequisite of a third.

#### Course Description

Intended as an enrichment course for students seeking a chance to explore a specific topic in detail. This is an opportunity for upperclassmen to explore a long term project in science with a focus on a specific process with a desired outcome. This may include simple aquaculture or husbandry projects as well as genuine scientific research. The course is good for half pass/fail credit in science and is not intended to replace a core science requirement. Entry into the course will require a proposal of project by the student due to the teacher of record before the conclusion of the previous school year. The proposal will include a goal for the project, a description of work to be done throughout the course and a plan for reaching that goal. The course will require record keeping of work performed throughout the project as well as a final, formal, presentation of results. Work for this class is conducted outside the student's regular school day.

#### Social Studies

All students must earn four credits by passing Global History I, II, U.S. History and Government, Economics and Participation in Government. In addition, all students must pass a New York State Regents examination in U.S. History and Government in grade 11 and a New York State Regents examination in Global History at the end of grade 10.

Global History I and Global History II are a requirement for all high school students. The New York State Regents examination is administered at the completion of Global History II.

# Global History I (Full Year 1 credit)

#### **Grades 9**

#### **Course Description**

The Global History curriculum is covered in two grade levels: 9 and 10. Global History I will provide 9<sup>th</sup> grade students an understanding of social studies standards according to history, geography, economics and civics. Global History I topics include introduction and examination of ancient world civilizations and belief systems; expansion, exchange and encounters among world civilizations; global interactions and the first Global Age.

# Global History II (Full Year 1 credit)

#### Grade 10

**Prerequisite:** Global History I

#### Course Description

In the second year of the curriculum, students enrolled in Global History II study the following topics: An Age of Revolutions, A Half-Century of Crisis and Achievement, The 20<sup>th</sup> Century since 1945 and Global Connections and Interaction.

## <u>U.S. History & Government</u> (Full Year 1 credit)

Grade 11

Prerequisite: Global Studies II

#### **Course Description**

This course is designed to provide a solid background in American History in order to prepare the student for citizenship in the 21<sup>st</sup> Century. The focus is on the thirteen enduring constitutional issues: National Power, Federalism, Judicial Power and Policy, The Constitution, Civil Liberties, Equality, Presidential Power, Separation of Powers, Property Rights, Rights of Women, and Constitutional change. Research projects and term papers are assigned for greater in-depth study in American History. A student must pass the Regents Examination in U. S. History and Government in order to receive a *high* school diploma. A review book will be offered for purchase in the fall.

# Participation in Government (Half Year .5 credit)

Grade 12

Prerequisite: U. S. History – Government

#### **Course Description**

This course is required for all high school students getting a regents diploma. The student will respond to local, state, national, and international issues and participate in representative public policy issues from a decision-making perspective. As a culmination of the social studies program, the goals for this course include the development of individuals who have the characteristics that define a citizen: civic-mindedness, civic intelligence, and civic literacy.

## **Economics** (Half Year .5 credit)

Grade 12

Prerequisite: U. S. History—Government

#### **Course Description**

This course will provide students with an understanding of the fundamental concepts and principles of economics that are a basic part of the American economic system. Students will gain the knowledge and skills necessary to function as informed and economically literate citizens in our society and in the world.

These essential questions are the core of the course, as well as immediate short and long term causes.

# World War II (Half Year .5 credit)

#### **Grade 10-12**

#### Course Description

Course Scope: World War II shaped the world as we know it today. It was the largest war in history fought by the "Greatest Generation" and the closest thing to total war that the world has ever seen.

Although technology has had an increasingly larger impact on warfare throughout the course of history, World War II is history's first "high-tech" war. Virtually every technological aspect of warfare as we know it today--including attack from space--was present in some rudimentary form in World War II.

This course deals with the entire scope of World War II, the struggle as it played out around the globe -- in essence, the war against the Axis partners. The course focuses primarily on the land and naval campaigns in the Pacific and Asia, the German conquest of Western Europe, the struggle between Germany and the Soviet Union in the east, and the final liberation of Europe made possible by the Allied landings at Normandy and the Soviet advance. You will examine the strategy, organization, equipment, and leadership of the German, Japanese, Soviet, and Western Allied Armies. You will also study the operations and the major battles of the war from 1939 to 1945

You will answer the following questions throughout this course:

- Explain the origins of World War II in Europe and Asia as they grew out of the imperfect peace that followed the first World War and describe the revolution in military operations that took place between 1919 and 1939.
- Define the concept of Blitzkrieg; define the German operational strategy for Operation Barbarosa and explain the flaws that ultimately led to its failure; also describe the magnitude of the war in the east, and explain why and how the Soviets played the major role in the defeat of Nazi Germany.
- Evaluate the North African, Sicilian, and Italian campaigns and explain the strategic objectives and shortcomings of both sides.
- Appraise the influence of the Battle of the Atlantic on the ground campaign, and explain how the Allies managed to win a campaign they could have lost.
- Analyze American amphibious warfare doctrine and operations including the crucial roles of air and sea power while comparing and contrasting United States and Japanese naval strategy in the Pacific.
- Examine the Allied operational issues overcome to land in Normandy and the subsequent campaign across Europe and the German operational strategy for the Ardennes Offensive, and explain its ultimate failure.
- Describe the United States strategy in Japan.
- Characterize the war's effect on the people of the world and the immediate aftermath of the war.

You will need: a notebook, a pen, access to google and a positive attitude.

"Let's crush some facts."

## Cold War (Half Year .5 credit)

#### **Grade 10-12**

#### **Course Description**

The Cold War was more than simply a military confrontation between the United States and the Soviet Union; it was the frame within which the entire world developed (for better or worse) for nearly five decades.

This course will examine the Cold War as a global phenomenon, covering not only the military and diplomatic history of the period, but also examining the social and cultural impact of the superpower confrontation. We will cover the origins of the conflict, the interplay between periods of tension and detente, the relative significance of disagreements within the opposing blocs, and the relationship between the "center" of the conflict in the North Atlantic/European area and the global "periphery".

- The Cold War as History: Why is the Cold War such a hot topic!
- Describe the Origins of the conflict beyond wikipedia.
- Analyze the impact of WWII on the relationship between the USA and USSR.
- Describe the wars fought by proxy; Korea and Vietnam (decolonization)
- Summarize the Space Race and the impact on each country's economy.
- Cold War at home- Analyze how the Cold War became institutionalized in the American psyche.
- JFK to our world today- assination to Reaganomics.
- Post Cold War society- What our world looks like today because of the Cold War?

You will need: a notebook, a pen, access to google and a positive attitude.

"Let's crush some facts."

# <u>United States History: Exploring Conflict in History</u> (Half Year - .5 credit) *Grades 10-12*

#### **Course Description:**

The definitions of rebellion and terrorism have changed over time as societies have adapted to new realities. What this course looks to accomplish is to be able to break down how rebellion and terrorism have been viewed in the United States since the founding.

<u>Purpose</u>: This class will analyze the history of terrorism and the United States. The course will break it into 3 distinct chunks;

- Terrorism from inside of the United States pre-20th century
- Terrorism inside of the United States during the 20th/21st centuries
- Terrorism from external groups. It will then look to the future of terrorism and its complex relationship with the US.

<u>Pre 20th Century Terrorism in the US:</u> This section will take a look at the history of different groups within the US and their different actions. This will include:

- Whiskey Rebellion, Bloody Kansas, The Anti-Rent Wars, White Supremacy Action, The Civil War, The Johnson and Grant Administrations, and the Anarchist/Socialist hysteria of the late 1800s.
- This will serve to establish a difference between terrorism and rebellion and will seek to have students judge their own biases about what is a just and righteous cause and what is a terrorist act.

<u>Terrorism in the 20th/21st centuries from within the US:</u> This will focus on the change in terrorism within the US as groups became less common and individual actors began to become the main agent of violence within the US.

- Socialist/Anarchist Actions, Lone Wolf Actions, Columbine, Pulse Nightclub, Ruby Ridge, Waco Texas, UnaBomber, and the Boston Marathon Bombing.
- We establish what terrorism that comes from within the US look like in the modern era and why it is so prevalent.

<u>Terrorism in the 20th/21st centuries from outside the US:</u> We will answer the question "How has international terrorism affected the US?"

- The Rise of Al Qaeda, ISIS, and State Sponsors.
- We will use this unit to establish how foreign policies of different nations may have fueled an increase in violence.
- We will also take a look to the future on plans for militaries to combat this new generation of warfare by using drones, information snooping, and biometrics.

Materials: First Platoon: A STORY OF MODERN WAR IN THE AGE OF IDENTITY DOMINANCE By ANNIE JACOBSEN

Siena Psychology (Full Year 1 credit)

Grade (per teacher recommendation)

#### **Course Description**

The purpose of this AP Psychology course is to introduce students to the study of the behavior and mental processes of the human brain. Explore the ideas, theories, and methods of the scientific study of behavior and mental processes. You'll examine the concepts of psychology through reading and discussion and you'll analyze data from psychological research studies. This course is a one-semester, introductory college course in Psychology.

This class will prepare students for the AP Psychology Exam in May.

# HVCC U.S. History (Full Year 1 credit)

#### Grade 11

Prerequisite: successful completion of Global History I & II and teacher recommendation.

#### Course Description

Welcome to College! In this course you will study the complex, engaging American narrative divided into 14 topics. We begin with issues and problems in American History from the Reconstruction period to the present day. On average a student should expect to spend about one hour per day on this course outside of class during the course of the year. In this course, students put the knowledge and understanding they are gaining into practice using their oral and

written communication skills. First to be successful, students will engage in regular class discussions. Secondly, students will regularly complete focused writing assignments that require both knowledge and analytical and interpretive skills.

# \*In addition to the requirements of this course, you will still be required to take the US History Regents in June.

COURSE TITLE: Interpretation of American History II

COURSE SUBJECT AND NUMBER: HIST 111 DEPARTMENT: Education and Social Sciences

CREDIT HOURS: 3

TEXT(S): Author: Tindall & Title: America: A Narrative History Vol I/ Publisher:

Norton/Edition: 12e FINAL EXAM: Yes

ACTIVITIES AND ASSIGNMENTS: Text readings, videos, three tests, term project and a final exam.

*GRADE COMPUTATION:* Classwork, Homework, and Tests 50%; Term Project/Paper 25%; Final Exam 25%:

ADA COMPLIANCE: In compliance with the Americans with Disabilities Act of 1990 and with Section 504 of the Rehabilitation Act, Hudson Valley Community College is committed to ensuring educational access and accommodations for all its registered students, in order to fully participate in programs and course activities or to meet course requirements. Hudson Valley Community College's students with documented disabilities and medical conditions are encouraged to access these services by registering with the Center for Access and Assistive Technology to discuss their particular needs for accommodations. For information or an appointment contact the Center for Access and Assistive Technology, located in room 130 of the Siek Campus Center, email us at caat@hvcc.edu, or call 518-629-7154/TDD: 518-629-7596.

#### STUDENT OBJECTIVES:

#### Students will be able to:

- Develop and understanding of the continuum of American History
- Enable students to appreciate the inter-actions of diverse communities, ethnic groups, women and men
- who helped create the American social, political and economic landscape.
- Have knowledge of a basic narrative of American history: political, economic, social, and cultural,
- including knowledge of unity and diversity in American society.
- Have knowledge of common institutions in American society and how they have affected different
- groups.
- Have an understanding of America's evolving relationship with the rest of the world.

#### Classroom Rules:

- 1. Be respectful, responsible, and safe.
- 2. Follow the school code of conduct.
- 3. Absolutely no mobile phones out in class.

Regarding Absences: When returning from being absent please see or email me upon your return. You are responsible for all work missed.

Required Materials for Social Studies: District Chromebook; earbuds; folder; a supply of pens and pencils

Distance Learning

#### Middle School

#### Sixth Grade

# 6th Grade ELA Course Description

Sixth Grade ELA is unit/theme based and aligns with the NYS Standards. The four themes students are introduced to: Overcoming Adversity with the book, Number the Stars, Choices with Tuck Everlasting, Heroes and mythology with The Lightning Thief, and Author's Craft, a research project on an author of the student's choice. In addition to the classroom books, each quarter students will be expected to choose a book to read throughout that quarter that connects to the theme we are working on. Students will be completing several different types of writing pieces and one project throughout each quarter. Through the reading and writing pieces, students will challenge themselves as readers and writers. They will expand their knowledge by answering questions that connect to the themes such as, "How do people overcome obstacles and challenges?" "Does living mean always changing?" "How do the choices we make affect others?" and "Why is it important for an author to know the audience they are writing for?" The goal of ELA 6 is for students to gain many reading, writing, listening, and speaking skills along with becoming life-long learners.

# 6th Grade Math Course Description

Math 6 is a stepping stone on the road to high school, college, and career readiness. The concepts and skills learned at each grade level in middle school are expanded upon in each high school math course. Strong mathematical understanding is necessary for independence and success in our ever changing technological world.

Students in Math 6 will continue to develop their mathematical understanding by increasing their ability to justify why a particular mathematical statement is true or where a mathematical rule comes from. Students will progress by explaining mathematical rules and improving procedural skills. Students will develop problem solving skills by moving from using concrete objects, pictures, and diagrams to solve problems; to using abstract reasoning. Students will learn to represent problems symbolically. Students will explain the meaning of the problem, analyze the meaning, and form inferences about the form and meaning of the solution. Students will plan a route to the solution and persevere in solving the problem. Students will learn to check to make sure their answer makes sense and understand the different approaches that other students utilize to solve the same complex problem. Students will construct practical arguments by analyzing situations and justifying conclusions by distinguishing correct logic from that which is flawed. Students will apply mathematics to solve problems in everyday life: i.e. students may apply proportional reasoning to increase the number of servings a recipe can make.

The Math 6 curriculum will align with the Common Core State Standards in Mathematics. The scope of what is taught will narrow, allowing students to reach strong foundational knowledge and deep conceptual understanding. Students will build new understanding onto foundations built in the elementary years. Students are expected to reach fluency with multi-digit decimal operations and multi-digit division. Students will gain fluency with simple calculations so they

are more able to understand more complex concepts. Progress will be made in applying appropriate mathematical concepts to new situations. Students will gain an understanding of how to apply math concepts to "real world" situations: i.e. how many gallons of paint does it take to paint the walls of a room measured in square feet? A common mathematical vocabulary will be developed to use when speaking and explaining mathematical understanding.

Math 6 students will spend the year focusing on ratios and rates; division of fractions; fluently adding, subtracting, multiplying and dividing multi-digit decimals; understanding, ordering, comparing, and graphing positive and negative rational numbers; writing, interpreting, graphing, and using expressions and equations; developing an understanding of statistical thinking, i.e. summarize and describe distributions. Finally, another focus of Math 6 will be to build student knowledge of shapes, as well as develop reasoning about shapes. Students will determine the area, surface area, and volume of shapes. Students will develop and justify formulas for areas of triangles and parallelograms and by decompose irregular polygons and prisms into regular polygons to find the respective area and surface area.

#### 6th Grade Social Studies

#### **Course Description**

Grade 6 Social Studies is based on the geography and history of the Eastern Hemisphere. This includes the development of cultures, civilizations, and empires. Students examine interactions between societies and the comparison of trends in governments and economics around the world. It also incorporates some elements of other social sciences, especially in terms of anthropology, archaeology, and geography. The course begins with an examination of the Eastern Hemisphere today, using geographic skills. This provides the foundation for making connections between the past and the present throughout the course. Students cover a tremendous time span from pre-history into the 1300s. Students are provided the opportunity to explore belief systems across time and to examine the foundations of democracy as well. Curriculum follows the NYS Social Studies Framework, created to provide students with the tools to become social scientists.

#### 6th Grade Science

#### **Course Description**

Middle school science focuses on 15 main areas of study. These areas are divided up among sixth, seventh, and eighth grades.

Currently, the sixth grade in our school focuses on <u>Earth's Waters</u> (oceans, lakes, & rivers), <u>Weather & Climate</u>, <u>Astronomy</u> (sun, moon, stars, planets, galaxies, solar systems), <u>Inside Earth</u> (plate tectonics, volcanoes, earthquakes), and <u>Sound & Light</u>.

Schools have the option of teaching the fifteen middle school units in any order they choose, so a student transferring from a different district may end up either missing a topic or covering it twice.

Units may be added to or deleted from a grade level at the discretion of the science department.

#### 6th Grade Health

#### **Course Description**

The New York State Learning Standards on Health Education

Encourages students to understand the seven skills necessary for a healthy lifestyle. These skills include; communication, decision making, self- management, relationship management, stress-management, planning and goal setting and advocacy.

The purpose of this class is to teach students the skills needed to understand the importance of health and well- being as well as reduce the risk of disease, decrease the risk of injury, create and maintain healthy relationships, and manage stress.

Students will learn how to set realistic goals, communicate effectively, make responsible decisions and build good character in an environment that promotes the practice of these skills, inclusion, collaboration and respect. Create healthy solutions to potential problems associated with stress and anger management.

Grading policy

Participation 25% Notebook/ Journal 25% Projects/Assessment 25% Homework 25%

Class Requirements

Preparedness

Respect for self and other Demonstrate understanding Identify healthy behaviors

Create healthy solutions to potential problems

Topics of discussion

Communication

Nutrition

**Physical Fitness** 

Friendship/Relationships

Bullying Refusal Skills Peer Pressure

Disease Prevention and Hygiene

Puberty and Development

**Emotions** 

Stress and Anger Management

# Seventh Grade

# 7<sup>th</sup> Grade English

## **Course Description**

The 7<sup>th</sup> grade ELA curriculum strives to nourish students to become life-long learners and responsible and productive citizens. Through a variety of relevant and meaningful reading, writing, and speaking experiences in individual, group and class-community settings, students will meet and exceed the Common Core State Standards by grappling with essential questions such as "How can I use my writing to take a stand?" and universal themes such as *cultural clashes* and *personal growth*. They will hone their analytical and evaluative skills with full-length works such as Roll of Thunder, Hear My Cry, The Light in the Forest, The Killer's Tears, and The Giver, and a variety of other texts, including poems, articles, and film clips. Students will learn to make important rhetorical choices as writers, depending on purpose and

audience. Finally students will engage in constant, careful and honest reflection of their learning and growth.

#### 7<sup>th</sup> Grade Math

#### **Course Description**

Seventh Grade Math includes the following units of study: Ratios and Proportional Relationships, The Number System, Expressions and Equations, Geometry, and Statistics and Probability. In Ratios and Proportional Relationships, the focus is on computing and comparing unit rates, recognizing and representing proportional relationships, and using proportions to solve multi-step problems involving ratio and percent. In the Number System unit, the focus is on mastering the operations of addition, subtraction, multiplication, and division with rational numbers and solving real-world problems involving rational numbers. Representing real-life situations with algebraic expressions and simplifying these expressions is part of the Expression and Equation unit. Another main focus of this unit is representing real-life situations with equations and inequalities and then using inverse operations to solve them. The Geometry unit consists of solving real-world problems using similar figures, the formulas for area and circumference of circles, and the formulas for area, volume, and surface area of two and three dimensional objects. It also focuses on understanding the relationships of complementary, supplementary, and vertical angles and the angles within a triangle. Finally the Statistics and Probability unit focuses on using data from a random sample to draw inferences about a population and using measures of central tendency and variability to make comparisons between populations. It also focuses on finding the theoretical and experimental probability of events using lists, tables, tree diagrams, and simulation.

## **Compression Math 7**

### **Course Description**

This course covers the following topics from both 7th and 8th grade math: Integers and Rational numbers, Ratios and Proportional Relationships, Expressions, Equations and Inequalities, Percent and Proportional relationships, Statistics and Probability, Plane and solid geometry, Powers, Roots, and Scientific Notation, Graphing Linear Functions, Solving Systems of Linear Equations, Congruence, Similarity, and Transformations of Geometric Figures, Volume and Surface Area of Three Dimensional Figures. Students who complete CCSS Accelerated Math 7 will be enrolled in CCSS Accelerated Algebra in their 8<sup>th</sup> grade year.

#### 7<sup>th</sup> Grade Social Studies

#### **Course Description**

#### **Grade 7 Social Studies**

Seventh Grade Social Studies is the first year of a two-year course in United States and New York History. Grade 7 Social Studies is arranged chronologically and incorporates geography as well as economic, social, and political trends. The course content is divided into eight Key Ideas, tracing the human experience in the United States from pre-Columbian times until the Civil War, with a focus on the people, events, and places in New York State.

#### **Key Ideas**

- 1. Native Americans
- 2. Colonial Developments
- 3. American Independence

- 4. Historical Development of the Constitution
- 5. The Constitution in Practice
- 6. Westward Expansion
- 7. Reform Movements
- 8. A Nation Divided

#### 7<sup>th</sup> Grade Science

# The Science program for middle school introduces students to a variety of science-related disciplines that will prepare them for the New York State Grade 8 Science Assessment. <u>Course Description</u>

The Science 7 program is designed to allow students to apply their science understanding and measurement skills to a variety of life science topics. Areas of study include: classification and taxonomy of living things, cellular biology, plants, environmental science, human body systems, and genetics. Since investigative activities are central to the program, students are placed in situations in which they can manipulate objects, pose questions, and compare results from one activity to another. The students' learning occurs through concrete activities dealing with key concepts and processes of the life sciences. Students are provided opportunities that develop higher-level thinking skills, as well as science process and inquiry skills.

Students in grades 7 and 8 are also given the opportunity and support to participate in Future City, where a team research project and model of the future is presented.

# 7<sup>th</sup> Grade Spanish 1A

#### **Course Description**

This course is an introduction to the basics of the Spanish language and cultures. The four primary language skills of hearing, speaking, reading and writing will be covered. Students will learn grammar and vocabulary through reading short stories. They will develop speaking skills through conversation and working with partners and in groups. Students will explore Hispanic cultures.

# Eighth Grade

# 8<sup>th</sup> Grade English Course Description

8th grade English follows the NYS standards. A variety of topics are covered including, but not limited to, reading comprehension, writing, listening and speaking skills, story elements, literary devices, dialogue, and argument. Multiple genres are explored, and there are multiple tie-ins with the Social Studies curriculum. Students are challenged to read, think, analyze, synthesize, question, cite evidence, debate, and write. Forty Acres and Maybe a Mule by Harriette Gillem Robinet and The Boy in the Striped Pajamas by John Boyne are two of the books studied during the year. Students will also need to read independently to build their reading stamina. Students should have a book with them at all times. For writing, some of the pieces they will work on are

essays analyzing characters and story elements, argument essays, and research investigations. One overarching goal is to foster more academic independence and teach real world skills so that students are successful in high school and beyond.

#### 8th Grade Math

#### **CCSS Math 8**

#### **Course Description**

Eighth Grade Math follows the NYS Math standards for 8<sup>th</sup> grade mathematics. Some of the topics covered are: equations, factors and fractions, ratios, proportions and percents, inequalities, functions and graphs and statistics and probability. Also, the basic math skills such as multiplication tables and opposite operations are reinforced.

# CCSS Accelerated Algebra (Compression Math) <a href="mailto:Course Description">Course Description</a>

This course covers the following topics from both 8th grade math and CCSS Algebra: Expressions, Equations, Functions, Linear Equations, Linear Functions, Equations of Linear Functions, Linear Inequalities, Systems of Linear Equations and Inequalities, Exponents and Exponential Functions, Quadratic Expressions and Equations, Quadratic Functions and Equations, Radical Functions and Geometry, Rational Functions and Equations, Statistics and Probability. This is a one-year course that ends with a Regents exam. Students who have completed the accelerated program at the middle school level will be enrolled in Geometry CCSS in their 9<sup>th</sup> grade year.

#### 8th Grade Social Studies

#### **Course Description**

Grade 8 Social Studies is arranged chronologically, beginning with Reconstruction and ending at the present. Grade 8 Social Studies incorporates geography as well as economic, social and political trends. The course content is focused on the human experience in the United States from Reconstruction to the end of World War II. Students will also examine different themes in United States and New York State history from the post-War period up to the present day, which provides the opportunity to explore more contemporary issues. The curriculum follows the NYS Social Studies Framework, created to provide students with the tools to become successful students of history and social sciences.

#### 8th Grade Science

#### **Course Description**

Eighth Grade Science follows the NYS Science standards. There is a NYS standardized Performance test and a written test. Topics studied throughout the year include energy, motion, simple machines, properties of matter, electricity and magnetism.

# 8<sup>th</sup> Grade Spanish - Spanish IB

#### **Course Description**

This course is an introduction to the basics of the Spanish language and cultures. The four primary language skills of hearing, speaking, reading and writing will be covered. Students are

expected to learn vocabulary. They are also expected to speak conversationally with partners and in groups. Students will explore Hispanic cultures.

The completion of Spanish 1A and 1B results in 1 high school credit of a foreign language.

# 8<sup>th</sup> Grade Discovering Computer Science Course Description

# 8<sup>th</sup> Grade Family and Consumer Sciences

8th Grade - Full Year

#### **Course Description**

This course meets NYSED Family and Consumer Sciences 3 learning standards. This course allows the students to develop their life skills in various areas of studies including: College and career exploration and research, Cooking, Home maintenance, Financial management, Consumer knowledge, Entrepreneurial opportunities, Sewing, Clothing maintenance, Safety (in various areas) and Problem solving. The students will demonstrate their skills through various projects throughout the year including a career research project, an entrepreneurial project, cooking labs and sewing project.

#### 8<sup>th</sup> Grade Health

#### **Course Description**

The objective of eighth grade health is to provide students with the content and skills necessary to assess, predict, identify, select and enjoy a healthy lifestyle and avoid choices that lead to obesity, addiction, heart disease, stress and toxic relationships in an environment that is safe and respectful.

- Educational skills: In accordance with the New York State Learning Standards for Health Education, students will develop the 7 skills of health (self- management, relationship-management, stress management, communication, decision making. Planning and goal setting and advocacy
- Functional knowledge: In accordance with the New York State Learning Standards for Health Education, students will be introduced to intermediate functional knowledge, which includes; physical activity, nutrition, HIV/AIDS awareness, tobacco, alcohol and other drugs, sexual health and risk, family life, injury and violence prevention.

#### Required material

Loose leaf paper

Folder with pockets and tabs with additional paper placed in the tabs

Small notebook or journal

#### **Grading policy**

Participation 50%

Tests/Presentations 30%

Notebook/ Journal 20%

#### Class requirements

Preparedness

Daily participation

Respect for other opinion

Organization

Demonstration of understanding of the material

#### Middle School Art and Music

#### Middle School Visual Art (Art 6, Art 7 and Art 8)

#### **Course Descriptions**

New York State requires a structured visual arts curriculum that will create a strong foundation of skills and knowledge needed for the (1) unit of art/music credit required for a high school diploma. Students will explore various 2D/3D media (drawing, painting, collage, printmaking, sculpture, ceramics and media arts) via Art Production, Art History, Art Criticism and Aesthetics. The 6th, 7th and 8th grade cumulative coursework addresses National and State Learning Standards for the Visual Arts, which include:

#### **Creating**

- 1. Generate and conceptualize artistic ideas and work.
- 2. Organize and develop artistic ideas and work.
- 3. Refine and complete artistic ideas and work.

#### **Presenting**

- 4. Analyze, interpret and select artistic work for presentation.
- 5. Develop and refine artistic techniques and work for presentation.
- 6. Convey meaning through the presentation of artistic work.

#### Responding

- 7. Perceive and analyze artistic work.
- 8. Interpret intent and meaning in artistic work.
- 9. Apply criteria to evaluate artistic work.

#### Connecting

- 10. Synthesize and relate knowledge and personal experiences to make art.
- 11. Relate artistic ideas and works with societal, cultural and historical context to deepen understanding.

#### 6th Grade Art

In 6th Grade Art, students explore Modern Art, Color Theory (watercolor), Ceramics (coil pots), printmaking, and continue building their drawing skills (with a focus on pressure control). They will look briefly at the invention of the camera and how it influenced Modern Art.

#### 7th Grade Art

In 7th Grade Art, students create collages in the style of Surrealism, abstract human figures in clay, and Cubist still life prints. The areas of illustration and the career of architecture is also explored through designing an architectural watercolor piece.

#### 8th Grade Art

In 8th Grade Art, students are preparing for high school level coursework in art by honing various drawing skills and techniques, including perspective drawing, contour drawing, and value drawing, as well as learning about color theory and proper mixing of pigments through a composition painting.

#### Music

#### **6th Grade General Music**

#### **Course Description**

- Experience music from other cultures and history through reading music, performance, composition, performance evaluation and lessons.
- Develop music literacy and theory.
- Expand on knowledge of recorders by performing and composing music.
- Develop habits that encourage success and professionalism within and outside the music classroom.

#### **6th Grade Chorus**

#### **Course Description**

- Study and perform music of diverse time eras, cultures, religions, and styles.
- Develop music literacy, knowledge of music history, theory and aural skills.
- Demonstrate proper singing technique and vocal care including breath support, good tone and diction, independent singing and proper voice placement.
- Develop habits that encourage success and professionalism within and outside the choral classroom

#### 6th Grade Band

#### **Course Description**

- Study and perform music of diverse time eras, cultures, religions and styles.
- Expand on music literacy, knowledge of music history and theory.
- Demonstrate proper playing technique and instrument care including breath support, good tone, and maintenance.
- Develop habits that encourage success and professionalism within and outside the music classroom.

#### 7<sup>th</sup> Grade General Music

#### **Course Description**

- Gain a general understanding of music history and how our current music relates to those genres of the past.
- Foster music literacy through a variety of hands-on activities.
- Promote open minded, focus listening skills both in and out of the music classroom.

#### 7th/8th Grade Band

#### **Course Description**

- Study and perform music of diverse time eras, cultures, religions, and styles.
- Expand on music literacy, knowledge of music history, and theory.
- Demonstrate proper playing technique and instrument care including breath support, good tone, and maintenance.
- Develop habits that encourage success and professionalism within and outside the instrumental classroom.

#### 7th/8th Grade Chorus

#### **Course Description**

- Study and perform music of diverse time eras, cultures, religions, and styles.
- Develop music literacy, knowledge of music history, theory and aural skills.
- Demonstrate proper singing technique and vocal care including breath support, good tone and diction, independent singing and proper voice placement.
- Develop habits that encourage success and professionalism within and outside the choral classroom.

# 8<sup>th</sup> Grade General Music

#### **Course Description**

- Analyze music in American history through research based projects, performance, classroom discussion, performance evaluation.
- Develop music literacy and expand on theoretical knowledge
- Expand knowledge of guitars by reading, notating and performing.
- Develop habits that encourage success and professionalism within and outside the music classroom.