Student Course Selection Guide

2025-2026

RED HOOK CENTRAL HIGH SCHOOL

INTRODUCTION

The Red Hook Central School District seeks to empower each individual to embrace today and navigate the possibilities of tomorrow. To that end, we would like to invite you and your student to partner with the counselors at the high school, as we begin the course selection process for the upcoming school year. The selection of a high school course of study requires the formation of a plan to meet NYS graduation requirements, in tandem with an awareness of post-secondary goals. This will require thoughtful and realistic long-range planning on the part of the student, parent or guardian, and school counselor.

While building the plan of study, students and parents or guardians should give serious thought to the following:

1. The profession, business, skill, or trade that the student is interested in pursuing.

2. The aptitude or ability of the student as indicated by test scores on various aptitude and achievement tests.

3. The success of the student in the current program, measured by academic achievement in each subject.

Planning the program is only the first step toward achieving success and experiencing academic and personal growth. It is incumbent upon all students to attend school regularly and to embrace academic rigor and challenges. We believe that students must invest effort in their own development, at school, at home and within the community.

Parents and Guardians are a vital part of this programming process and are invited to take an active role in its formation. The Course Selection Guide includes descriptions of all courses, requirements for graduation and other pertinent information. Please feel free to access it online on the Red Hook High School website: https://www.redhookcentralschools.org/redhookhs

We encourage you to communicate regularly with school counselor, faculty, and staff throughout your student's high school experience.

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COURSE DESCRIPTIONS

WE ARE RAIDERS

Raider Profile

ENGAGE
We will engage in local and global civics

EMBRACE
We will embrace diversity and challenge inequities

THINK
We will think critically and problem solve

CARE
We will tend to physical and emotional health

CREATE
We will create and innovate

EMPATHIZE
We will demonstrate empathy and compassion

COLLABORATE
We will collaborate and communicate

Red Hook Central School District

Mission & Vision Statement

The Red Hook Central School District is a welcoming and diverse community of learners committed to personal growth and caring for others.

The Red Hook Central School District seeks to empower each individual to embrace today and navigate the possibilities of tomorrow.

THE SCHOOL COUNSELING PROGRAM

The basic educational philosophy of the Red Hook Central School system is to recognize the wide range of abilities and interests of the students. We endeavor to improve the educational advantages of every student, preparing them for further education, for business and industrial careers, and to train them for independent and logical thinking.

To do this, the proper selection of courses by a student cannot be overemphasized. The selection of courses should be based on the achievements, the aptitudes, and the interests of the individual. To achieve this, it is equally necessary for the school to have the cooperation of the parents in providing background information and in the acceptance of the suitability of particular courses for the individual student.

Each student is assigned to a counselor who has at least one programming meeting each year with the student. As the need arises, other meetings are held. It is in these meetings that decisions made through the counseling process show whether further counseling and/or other services may be required. Following the selection of the tentative program, parents may initiate an individual conference by phoning the student's counselor.

STUDENT SERVICES

The Student Services Office has a great many functions in the school system. Some of these have to do with student record keeping and making sure schedules, transcripts and college applications are correctly processed. The major part of a school counselor's job, however, has to do with helping students make realistic and positive decisions about their future.

Presenting appropriate information is important, whether it is about career opportunities, high school courses, or personal relationships. Being a relevant and appropriate resource is the goal of Student Services in the high school.

The subjects which a student takes during his or her high school years are determined by a number of considerations. Some of these are as follows:

1. The requirements for the Red Hook Central School diploma.
2. The requirements for a New York State High School diploma.
3. The student's own interests, abilities, and aptitudes.
4. The student's post high school plans.
5. The entrance requirements of the various colleges.
6. The requirements for specific occupations.

Each person should keep these items in mind as courses are selected. Each academic pathway is unique to the individual needs of the student.

Our faculty members and school counselors are always ready to discuss questions of requirements, choices, etc., with students and parents.

DEFINITIONS

The terms defined here are used in various parts of this guide book. It would be helpful to read them before examining the book and to refer to them as needed for better understanding.

1. **Prerequisites** are subjects which are required as background for some advanced subjects.
2. An **elective** is a subject which may be chosen by a pupil in addition to the constants for his or her program.
3. A **unit of credit** is earned upon successful completion of a subject taken five or more periods per week for a whole school year.
4. A **half unit of credit** is earned for the successful completion of a subject taken five periods per week for one half year (or every other day all year long).
5. **Successfully completed** means achieving a passing final mark in a subject.

SCHEDULING TIME TABLE

Teachers will recommend students for course placement in core subjects according to department guidelines. Counselors will meet with students individually to review teacher recommendations and additional course requests. A course selection sheet will be sent home with students to share with their parents/guardians. Any student/parent who has questions about teacher recommendation should speak to that teacher directly. If, after having a conversation with the teacher, a parent wishes to dispute the recommendation, a written request should be submitted to the principal by May 1st. The request should include valid educational reasons (improved grades, improved class participation, etc.) for the change. Requests will be reviewed by the principal and a final determination made before the end of the school year. After the master schedule is created, a student's schedule will be developed. Where classes are cancelled or a conflict arises in a student's schedule, different courses will need to be selected. A minimum enrollment of 12 students will be required in most cases to a run a course. Before school opens in the fall, students will receive a copy of their daily schedule.

STUDENT ATHLETES

Any student planning to play NCAA Division I or II sports is encouraged to work closely with their school counselor in planning their schedule. Eligibility is based on a number of factors including amateur status and academics. Students must have completed 16 core courses by graduation and meet a particular GPA and ACT/SAT score based on a sliding scale. **Students should notify their school counselor of their intention to compete at the college level to ensure that their coursework will meet NCAA eligibility standards.**

HONORS, ADVANCED PLACEMENT, AND INTERNATIONAL BACCALAUREATE

Classes are weighted for the purposes of ranking. Honors classes are given a weight of 1.04, AP and IB-SL classes are given a weight of 1.06, and IB-HL classes are given a weight of 1.08. Students must complete all the requirements of an IB course to receive AP or IB weighting and to have the AP or IB designation on their transcripts.

COURSE AND EXAM REPEATS

When a course is retaken, both the old and new marks will appear on the transcript and will be included in figuring final averages.

Once a Regents exam has been taken, it may be retaken at a later date for score improvement. However, only when a Regents exam is retaken at the **next available testing date** (usually this is in August) will the higher Regents exam mark be used to calculate a new final average for the course.

CLASS/GRADE DESIGNATION

New York State Education Department considers that a student is a member of a cohort dependent the year the student enters 9th grade.

In Red Hook, students who graduate early (after three years) will not be considered seniors until the second semester of the year in which they intend to graduate.

SCHEDULE CHANGES

Student Services follows a consistent practice of changing schedules when a student requests a schedule change. A schedule change form must be complete with all signatures before a change can becomes official. The form can be requested from the student's school counselor. Once the master schedule is established there will be a limited opportunity to change the students schedule.

Dropped courses, whether they are half year courses or full year courses, will appear on a student's permanent record as follows:

1. When courses are dropped within ten days after the end of the first 5-week period, no entry will be made on the permanent record.

2. Courses dropped more than ten days after the first 5-week period will appear as WF(withdrawal/ fail) on the permanent record. The final average of 50 will be given under this circumstance.

3. Appeals due to extenuating circumstances can be made through a faculty committee appointed by the high school principal.

SECOND SEMESTER COURSE CHANGES

Second semester changes made necessary by change of 1st semester courses will be made as needed during the Fall. In effect, this will give priority to those students who need specific courses. The students who need an elective course to graduate will be prioritized. In this case, we will remove students who have been added to the original class list, starting with 9th graders.

INTERNATIONAL BACCALAUREATE PROGRAM

Red Hook High School is one of the only schools in the area where students have the opportunity to participate in the most rigorous curriculum offered anywhere. There are two ways students can take part in the IB Program. Students can simply opt to take an IB course in a particular subject, or they may challenge themselves to complete the full IB Diploma, which is currently recognized in over 150 countries worldwide. To receive the full IB diploma, candidates must complete courses in six areas of study: English, a foreign language, history, science, mathematics, and the arts. Students also participate in Creativity, Activity and Service, write an extended essay on a particular area of study of their choice, and participate in a two-year course titled Theory of Knowledge.

Beginning in the 2023-2024 school year, all Red Hook students will be enrolled in our IB Literature HL course, a two-year course that focuses on instruction that is closely geared toward helping our students develop strong critical thinking, inquiry, and collaborative skills. Additionally, participating in an IB class gives students an opportunity to earn college credit. The school district pays the assessment fees for all students enrolled in IB Literature HL.

Red Hook has offered the IB Program since September 2001 and has had over 240 students receive the full IB diploma. During that time, students at Red Hook have taken over 2,000 IB exams, with 85% achieving scores of 4 or higher. As the popularity of the IB Program grows, so does the number of colleges granting credit for IB courses successfully completed. There are now over 3,500 colleges and universities that have published IB recognition policies – this includes over 1,000 from the United States alone. Recent full diploma graduates from Red Hook are attending Harvard, Yale, Princeton, Brown, University of Pennsylvania, Barnard, Notre Dame, RPI, RIT, Vassar, and many more.

Students enrolled in IB courses are required to complete all of the IB Internal Assessments and to take the IB exam. As with other courses where college credit is possible, there are fees, which for the May 2024 exam session were approximately $123 per student for each exam. The school district pays for approximately half of the assessment fees, and fee waivers are available for students who meet the federal requirements for free or reduced lunch. Students who fail to complete the second year of a two-year IB course will have this change reflected on their transcript. Similarly, students who do not sit for an IB exam are subject to having the IB designation removed from their transcript.

ADVANCED PLACEMENT COURSES

Red Hook High School proudly offers Advanced Placement (AP) courses in nearly every content area. AP courses can elevate a student's high school transcript by showing colleges they are committed to taking rigorous courses at the college level before setting foot on campus.

Students will be asked to register for their AP courses online during the first week of school where they will gain access to an array of comprehensive web-based resources for their coursework in addition to the high caliber instruction of our AP teachers. Students can ask the AP Coordinator about the "Exam Only" option if they would like to prepare independently for an AP exam for a course not offered at Red Hook High School.

Each October, students commit to taking their exams by paying a fee of approximately $98 for each exam. Fee reductions are available for students who meet the federal requirements for free or reduced lunch. Students who do not sit for the AP exam will not have their exam fee refunded. Scoring well on an AP exam can often earn students college credit for their high school class, saving a significant amount on tuition. Do not hesitate to reach out to our AP Coordinator if you have any questions about the Advanced Placement program.

BARD BRIDGE PROGRAM

Juniors and seniors who are at least 16 years old may take up to two Bard courses per semester, in addition to their high school work. Their participation is subject to the availability of space and requires permission from their high school counselor, their parent or guardian, and the instructor. Students pay a registration fee of $175 and a tuition fee of $309 per course. The online application can be found at http://www.bard.edu/admission/bridge/.

STEP 1: Application: Students should submit a completed online application to the Bard Admission Office at least three weeks prior to registration day (November 30th for the Spring Semester, July 31st for Fall Semester). The application will need approval of both the student's counselor and a parent or guardian. Please include a high school transcript, or equivalent documents, as proof of an average of 85 or higher. In addition, please list at least three courses from the current upcoming semester's course listing for which the student wishes to register.

STEP 2: Interview: Students must schedule an interview with Josh Tyler in the Bard Admissions office no later than three weeks prior to registration day.

STEP 3: Approval: Applications of recommended students will be forwarded to Craig Jude in the Registrar's Office.

STEP 4: Registration: Students should contact the professor of the class they are interested in taking to receive approval for participation in that class. Once a student has received approval, they will need to contact Craig Jude, of the Registrar's Office, to officially register for the class. Contact: Craig Jude, cjude@bard.edu.

STEP 5: Payment: Student Accounts must be contacted upon completion of the registration process for registration and course fees to be made. Contact: sao@bard.edu.

STEP 6. Account Setup: Once students have registered and submitted their payment for the semester, they should contact our Help Desk to set up their Bard account and email. Contact: helpdesk@bard.edu.

*Please note: Bard College students have priority registration to all classes. No Bridge student is eligible to take a 300 or 400 level course. Certain 100 and 200 level courses are also unavailable to Bridge students. The Registrar's Office and individual Professors will assist you in choosing appropriate classes.

Please see your school counselor for more information.

EARLY ADMISSIONS AT DUTCHESS, COLUMBIA-GREENE OR ULSTER COMMUNITY COLLEGES

High school seniors are eligible to apply to local community colleges for full-time or part-time study. The Early Admissions programs are designed for high school students who wish to begin their college studies while enrolled in high school. Courses taken at the college earn credit toward a college degree, and with high school administrative approval, these courses may also be used to fulfill high school graduation requirements. Students must apply to the Early Admissions programs.

Please see your school counselor for applications and more information.

****Course taken outside of RHHS will not be listed on the transcript unless they are being used to fulfill a graduation requirement with the exception of summer school courses, these courses are excluded from rank and GPA.

UNIT REQUIREMENTS

The next part of this publication outlines the requirements for Regents and Advanced Regents Diplomas. These requirements are subject to change pending New York State Education Department legislation.

Please be aware of the fact that all students enrolled at the Red Hook Central High School must carry a complete program, which consists of and requires a minimum of five class periods every day, excluding physical education.

SUMMARY OF DIPLOMA REQUIREMENTS FOR PUPILS

Part 100.5, Regulations of the Commissioner of Education

1. Requirements for **Advanced REGENTS** diploma Total number of units of credit is 22.

a. **Constants**

English..... 4 credits
Social Studies..... 4 credits
Mathematics .....3 credits
Science..... 3 credits
Health ..... ½ credit
Art and/or Music .....1 credit
Physical Education .....2 credits
Foreign Language ..... 3-credit sequence in one language and pass the locally developed LOTE comprehensive exam

***Students may complete a 5 unit sequence in Art, Music or Technology in lieu of a 3 unit Foreign Language sequence. Please contact your child's school counselor for more information.

b. **Electives**

Students must earn enough additional credits to bring the total to the required minimum of 22.

c. **Examinations**

Students must pass Regents examinations as follows: English Language Arts, Global History & Geography, United States History and Government, Algebra 1, Geometry, Algebra 2, Living Environment, and either Earth Science, Chemistry, or Physics.

2. Requirements for **REGENTS** diploma Total number of credits is 22.

a. **Constants**

Foreign Language .....1 credit
English..... 4 credits
Social Studies..... 4 credits
Mathematics .....3 credits
Science..... 3 credits
Health ..... ½ credit
Art and/or Music .....1 credit
Physical Education .....2 credits

b. **Electives:** Students must earn enough additional units of credit to bring the total to the required minimum of 22.

c. **Regents Exams**: All students must pass, 65 or better, Regents examinations as follows:

1. English Language Arts
2. Global History & Geography
3. United States History and Government
4. Algebra 1

5. One Science Regents

*****Students may substitute a second Regents exam in Math or Science, an approved Arts Assessment, an approved exam in Foreign Language, or an approved CTI program (and exam) for one Social Studies Regents exam. Please contact your child's school counselor for more information.**

ART

Please read the following course descriptions carefully and speak to one of the art teachers if you have any questions about a course, or need help choosing a course that's right for you.

RHHS art courses are designed to broaden and deepen students' appreciation of the visual arts and provide a wide range of art-making experiences. Some art courses are offered in a specific sequence so that students may build on previous skills and knowledge from year to year. For this reason, your guidance counselors and/or art teachers may suggest that you register for art courses in a specific order.

AR 110- STUDIO IN ART ONE (STUDIO ONE)

Open to students in grades 9-12

Full year 1.0 unit of credit

Studio One is the only visual art course offered at RHHS that fulfills the NYS arts commencement credit requirement, but is *not* the only accepted prerequisite for art electives. Students who complete the NYS arts commencement credit in music (Band, or Chorus) or Design & Drawing for Technology (DDP) may be eligible to enroll in visual art electives starting in 10th grade, with permission of the course teacher. In Studio One, students learn basic art concepts and vocabulary, are introduced to the study of art history, and learn a wide variety of art-making techniques including drawing, painting, calligraphy, printmaking and collage. Students also practice the use of different mediums, such as watercolor, charcoal, acrylic paints, etc. The focus of the course is to build a broad foundation for the appreciation and continued study of visual art. *Studio One is highly recommended for students interested in pursuing an art sequence throughout high school, including IB or Advanced Art.*

Note: In consideration of limited classroom and storage space, each section of Studio One is capped at 18 students.

AR 200- STUDIO IN ART TWO A/B (STUDIO TWO)

Open to students in grades 10-12

One semester (may be repeated) .5 unit of credit

Prerequisite: Studio One or Music or DDP commencement credit

Studio Two students will explore and practice in greater depth art-making methods introduced in Studio One and will also be introduced to new artworks, Art History and art forms. Students will complete a variety of projects as they develop skills such as drawing and painting, printmaking and collage. Students may take Studio Two for one semester only or may repeat the course and work on different projects.

Note: Due to the individual instruction necessary for this course and in consideration of limited classroom and storage space, each section of Studio Two is capped at 16 students.

AR 210- GRAPHIC DESIGN STUDIO

Open to students in grades 10-12

Full Year 1.0 unit of credit

Prerequisite: Studio One or Music or DDP commencement credit

In this course, students will learn how to use digital tools such as Adobe Illustrator and Photoshop to create digital illustrations and designs. Students will be introduced to the fundamentals of digital art, and learn how to use various tools and techniques to create visually compelling digital illustrations, as well building a foundation for commercial design and advertising. Students will have the opportunity to work on a variety of projects and assignments to help them apply what they have learned. This course is perfect for anyone who wants to develop their creative skills and pursue a career in digital art, graphic design, or illustration

AR – 420 DIGITAL PHOTOGRAPHY

Open to students in grades 10-12

Full Year 1.0 unit of credit

Prerequisite: Studio One, DDP or Music commencement credit

Learn photography using digital cameras, lenses, and professional editing software. Students will focus on building a core understanding of balance and composition in photography while developing a printed portfolio of work. We will be working on photo assignments inside the class and around school grounds. In warm weather we walk into town as a group to work on street photography.

ART

AR 410- CERAMICS STUDIO A/B

Open to students in grades 11-12
One semester (may be repeated) .5 unit of credit
Prerequisite: Studio One or Music or DDP commencement credit
Students will learn and practice a variety of clay hand-building methods, including pinch, coil, slab, and throwing on the potter's wheel. Students will also learn decoration and glazing methods to complete their fired ceramic artworks. Students who complete Ceramics Studio and wish to further their knowledge of clay techniques may continue for a second semester with permission of the teacher. More challenging skills that will be learned include: handle making, advanced wheel throwing, combined hand-building methods and more complex glaze techniques.
Note: Due to the individual instruction necessary for this course and in consideration of classroom health management, limited firing and storage capacity, and the cost of supplies, each class section of Ceramics Studio is capped at 12 students.

AR 310- ADVANCED ART

Open to students in grades 11-12
Full year 1.0 unit of credit
Prerequisite: Studio One or Music or DDP commencement credit,
plus full year of art in 10th grade (or by permission of teacher)
The Advanced Art option is for students who want to create a collection of original artworks (and/or complete a college art portfolio) without taking the IB Art course. Advanced Art may be taken during the junior and/or senior years for one high school credit per year. This is an open format class in which each student will build on his/her previous art experience to develop an independent body of work. Any student who decides to prepare an AP Art (College Board) submission, or who is working on his/her college art portfolio will get support with all phases of their work, as well as advice on school choices, application essays, etc. Students will present their artworks in monthly group critiques and complete journal assignments that document their creative ideas and processes.

AR 430– ANIMATION AND VIDEO PRODUCTION

Open to students in grades 9-12
Full Year 1.0 unit of credit
No prerequisite
Animation and Video Production is an introductory course designed to provide students with artistic and creative background in the fields of animation and film production. Student will receive an introduction to animation including, character design, storyboarding, and character animation. Students will develop skills necessary to design animated sequences. Students will also have the opportunity to learn video production basics, including filming, and editing content.

AR 350- IB ART HL, YEAR ONE

Open to students in grade 11
Full year 1.0 unit of credit
Prerequisite: Studio One or Music or DDP commencement credit
IB Art is at wo-year art course that combines a high level of creative exploration and art-making with in-depth documentation of ideas and research in students' visual art journals. This course is centered on each individual student's exploration of his/her own unique creative process through experimentation, development and mastery of varied techniques and media, research, documentation (including art-critical writing) and the creation of an original body of work. This course will also provide guidance and opportunity to create an art portfolio for college and/or post-high school endeavors. During year one, IB Art students will explore a wide range of art forms and learn how to use source artworks to inspire their own original creations.

AR 450- IB ART HL, YEAR TWO

Open to students in grade 12
Full year 1.0 unit of credit
Prerequisite: IB Art HL, Year One Requires exam fee
In year two of IB Art, seniors will complete and integrate their collection of artworks and visual art journal entries to prepare for the IBO's formal assessment. Each student will prepare a digital portfolio of their best artworks and organize and edit their journal pages into two additional assessment components: the Comparative Study (which includes the student's analysis and research of varied artworks) and the Process Portfolio (a full documentation of the student's own art-making methods). These three components are submitted digitally to the IBO in April of the senior year for assessment. Although the IB Art teacher gives much input, the IBO determines students' final scores and individual colleges determine how much credit they award students for their performance in the assessment. This course will all also continue to provide guidance and opportunity for portfolio creation for college or post- high school endeavors. The IB Art course culminates in a major annual exhibit of senior artworks open to the public.

AR 360 - FILM IB SL-1
AR 460 - FILM IB SL-2

Full year course 1.0 unit of credit
Requires exam fees
The IB Film course aims to develop students' skills so that they become adept in both interpreting and making film texts. Through the study and analysis of films and exercises in film-making, the course explores film history, theory and movements. The intent of the course is to develop students' critical abilities, enabling them to appreciate the different cultural and historical perspectives in film and to work as part of a core production team to make films. This is a **two-year** course of study for **deadline-oriented** students.

2024-2025
SEQUENCE of RHHS ART COURSES

(Please see course descriptions for details)

<table>
<tr><td>12</td><td colspan="2">IB ART HL year 2- 1 credit (capped at 14 students per section)</td></tr>
<tr><td rowspan="2">11
12</td><td>ADVANCED ART- 1 credit
(capped at 14 students per section)</td><td>IB ART HL year 1- 1 credit
First year of two-year IB Art course. IBO formal assessment is in the spring of year two.
(capped at 14 students per section)</td></tr>
<tr><td>CERAMICS STUDIO- 0.5 credit
This course may be repeated.
(capped at 12 students per section)</td><td>Film IB SL-1
Film IB SL-2
1 Credit</td></tr>
<tr><td rowspan="2">10
11
12</td><td>DIGITAL PHOTOGRAPHY – 1.0 credit
This course may be repeated
(Capped at 15 students per section)</td><td>ANIMATION AND
VIDEO PRODUCTION- 1.0 credit
This course may be repeated.
(Capped at 15 students per section)</td></tr>
<tr><td>STUDIO TWO- 0.5 credit
One semester prerequisite for Ceramics Studio.
This course may be repeated.
(Capped at 16 students per section)</td><td>GRAPHIC DESIGN/ DIGITAL ILLUSTRATION1.0 credit
(Capped at 15 students per section)</td></tr>
<tr><td>9
10
11
12</td><td colspan="2">STUDIO ONE- 1 credit
The only RHHS visual art course that fulfills the NYS Regents commencement requirement. A comprehensive visual arts foundation course.
(Capped at 18 students per section)</td></tr>
</table>

INTERDISCIPLINARY STUDIES

EN 115– Journalism & Media Production
Full year course 1.0 unit of credit
This course will focus on creating robust and meaningful content in both print and multimedia formats. Students will generate content for the school yearbook and newspaper and will also produce regular podcasts, mini documentaries, and videos. Through these projects, they will explore how narratives interact with and influence the school and local community, utilizing multimedia and immersive experiences to foster engagement. By employing Design Thinking, students will develop content that resonates with their audience, enhances their communication skills and prepares them for future endeavors in media and creative expression.

HU 155 –ART, AND STORYTELLING
Full Year Course 1.0 unit of credit/elective
Since the dawn of time, people have been using stories and art to connect with one another and to explore their individual and cultural identities. Join us as we study a variety of storytelling genres and art techniques that span the timeline and the globe. In addition to studying others' works, we will spend time creating our own stories and artworks to add our voices to the conversation. Works studied include *Art Matters* by Chris Riddell and Neil Gaiman, *Miss Peregine's Home for Peculiar Children* by Ransom Riggs, *Blood, Water, Paint* by Joy McCullough, and *Smoke and Mirrors* by Neil Gaiman. This is an interdisciplinary course taught by an art and an English teacher.

HU 160 – WORD TO TABLE
Half Year Course 0.5 unit of credit/elective
12 graders only
The following co-taught class will develop an appreciation for cultures through literature and food science. Students will appreciate two vital elements of life: literature and food. Students will explore four primary geographical areas: the Americas, Europe, Africa and Asia, and The Middle East. Students will develop and refine creative writing skills as well as develop understanding and appreciation of the food each region while working in small groups. This course is open for seniors with a limit of sixteen participants. This will be a full year course awarding students half credit in English and half an elective credit.

HU 170 – FRESHMAN FOCUS
Half Year Course 0.5 unit of credit/elective
Freshman Focus is a required half-year course for all incoming 9th graders. It is a place for students to learn how to navigate life at high school, while taking advantage of the many opportunities offered. We will discuss topics like being organized, identifying learning styles, and effectively accessing the digital world. We will also explore what it means to live the Raider Profile, to build and maintain effective relationships, and to make good choices. Finally, we will investigate multiple career and educational pathways and research how students can best position themselves for future success.

FFA

Red Hook High School is pleased to introduce an FFA chapter. This is an intra-curricular club that will focus on integrating environmental and agriculture topics, with a strong emphasis on working with local businesses, into the curriculum of the courses listed below. Courses that fulfill the NYS requirement are: Topics in Science, Residential Construction, and Mechanical Equipment Repair & Maintenance. Membership for the club is not contingent upon enrollment in courses, though it is recommended.

TE 250 – POWER MECHANICS
Half year course .5 unit of credit
Open to students in grades 10 - 12
This course offers the student an opportunity to study, service, and repair the workings of many pieces of power/ heavy equipment that can be found in both the Residential and Industrial settings. Some examples include: Tractors/Mowers, Snowblowers, Snow Plows, All-Terrain Vehicles. Systems to be studied will be the fuel, ignition, hydraulics, and small engines. Careers and further education will be discussed.

TE 320 -RESIDENTIAL CONSTRUCTION
Half year course .5 unit of credit
Open to students in grades 9 - 12
This course is a study of skills involved in construction of residential buildings. Content includes planning, estimating, framing roofs, floors and walls, quality assurance and environmental impacts. Building and delivery of a wood-framed structure culminates the course.

SC 500/SC 501 - TOPICS IN SCIENCE A/B
Half year course; .5 unit of credit
Open to students in grades 11 - 12 *1.0 credit can be earned by taking both sections, if more than one section is offered
Prerequisites: Successful completion of the Living Environment and Studies in Earth Science or Regents Earth Science
This course will explore different topics in science chosen by the instructor, for example horticulture ornithology and species identification. Designed for students that need to complete a third year of science, preference will be given to students in need of credits for graduation.

BUSINESS

BU 105 – FINANCIAL LITERACY

Half year course .5 unit of credit/elective

This course will overview the many facets of finance as it pertains to personal success and supporting life-long skill development. Topics include personal budgeting, investments, career planning, resume development, job interview skills, loans, insurances, taxes and credit scores.

BU 130—INTRO TO BUSINESS

Half year course .5 unit of credit

Open to students in grades 9 – 12

This course is designed to provide students with a complete and integrated overview of businesses. Students will be exposed to the various functional areas of business, (marketing, accounting and finance, operations, management, and human resource management) and will learn how changes in the environment impact an organization. This course will explore concepts of globalization, ethics, and corporate social responsibility, forms of business ownership, the roles of small business and entrepreneurship, as well as business strategy and executive decision making. The course will also introduce the student to the functions of management and how those functions assist a manager in developing and operating a successful business.

BU 140—INTRO TO MARKETING & ADVERTISING

Half year course .5 unit of credit

Open to students in grades 9 – 12

Prerequisite: Intro to Business

Marketing explores foundational marketing concepts relevant to today's global economy. By emphasizing how marketing impacts businesses and influences our daily lives, this class introduces real-world skills that students will use in the classroom, the workplace, and beyond. Principles of marketing leads students to a thorough understanding of product, price, place, and promotion - the 4 p's of marketing. In addition, students will learn how marketers conduct research, make decisions, and strategize to help sell goods and services, and will use this knowledge to complete a comprehensive marketing plan for a company.

BU 510—ENTREPRENEURSHIP

Half year course .5 unit of credit

Open to students in grades 9 – 12

Prerequisite: Intro to Business

Entrepreneurship is a mindset—a way of looking at things that is opportunity-focused and creative. It's about creating value for customers and investors, gaining independence in your career, taking bold risks, and solving challenges with undefined solutions. To be an entrepreneur, you need to have the ability to innovate—to improve the old and invent the new. You need passion—doing what you love. Above all, you need persistence—getting up every day and moving forward with no one telling you what to do or why to do it. This course introduces, and an overview of, the fundamentals of entrepreneurship. Whether you already have an idea and are eager to start your own business, or simply want to learn more about what an entrepreneurial career would be like, this course exposes you to the challenges of entrepreneurship—from conceptualizing new ventures to developing and managing them.

HEALTH

HE 500 - HEALTH

Half year course .5 unit of credit

Open to students in grades 11 - 12

Open to students in grade 10 who plan to attend BOCES or pursue the full IB diploma.

It is required that all students take and pass this course in order to graduate from high school.

This course will cover the components of physical, mental/emotional, and social health. The main topics covered will be:

1. The effects of tobacco, alcohol and drug use/abuse, including peer pressure, decision-making skills, and media influences.
2. The importance of fitness and nutrition, including dietary guidelines, diabetes, eating disorders, and First Aid/CPR
3. Mental health topics will address mental disorders, self-esteem, stress management, communication skills, and suicide prevention.
4. Sexuality unit will discuss relationships, abstinence, dating abuse/rape, contraception, sexual orientation, male/female reproductive systems, teen pregnancy, STDs, and HIV/AIDS.

ENGLISH

The high school English program is focused upon providing students with the skills necessary to critically read and confidently analyze all forms of text. In addition, students are required to respond to these texts in a variety of ways and should be prepared to engage in daily, highly focused discussions. Students will work independently and collaboratively to develop interpretations of the works studied and will be required to exhibit their understanding in the form of projects, presentations, and written analysis.

In addition, the high school English curriculum is embedded with the strands of the New York State Standards for Reading and Writing. These are:

Standard 1 - Students will read, write, listen and speak for information and understanding.

Standard 2 - Students will read, write, listen and speak for literary response and expression.

Standard 3 - Students will read, write, listen and speak for critical analysis and evaluation.

Standard 4 - Students will read, write, listen and speak for social interaction.

In 9th grade, students will choose one (1) year long course's, in order to achieve one credit of English.

In 10th grade, students will choose one (1) year long courses, in order to achieve one credit of English-
OR AP English Language a full year course, for one credit of English
OR Art and Storytelling, a full year course, for one credit of English.

In 11th grade, students will take International Baccalaureate HL 1 for one credit of English.
In 12th grade, students will take International Baccalaureate HL 2, for one credit of English.

All students are required by New York State to acquire four credits of English in order to graduate.

SU 105—LITERACY TUTORIAL
Half year course 0.5 unit of credit
Students who need a developmental or remedial reading class should take Literacy Tutorial. Students may take this course more than once. This is a ½ credit elective course and is open to all students at all grade levels. However, students with the greatest demonstrated need will be given priority. In order to receive credit, the student must exhibit satisfactory progress as determined by the teacher and other assessments. The class is tailored to the student's specific reading needs, including: reading comprehension, written expression of comprehension, word study, fluency, vocabulary development and active reading strategies. Reading Plus, NWEA, informal reading inventories, and other assessments are used to help determine the student's needs. Students with reading goals on their IEPs will receive direct instruction to work toward these goals.

English 9 Courses

EN 103 – A HERO'S JOURNEY
Full year course 1.0 unit of credit
What do the movie *Star Wars* and the poem *the Odyssey* have in common? Each follows the journey of a hero, exploring the triumphs and challenges along the way. This class will study that journey in depth across a variety of works from many different time periods. Students will also have the opportunity to create their own original work exploring the journey of a hero. Possible titles to be studied include: *The Most Dangerous Game, The Hunger Games, The Martian, The Time Machine and Ready Player One.*

EN 104– CREATIVE WRITING
Full year course 1.0 unit of credit
Are you a storyteller? Do you really enjoy reading, analyzing texts and then creating your own original works? If so, this course is for you, as it is designed to give you the opportunity to truly immerse yourself in the writing process. You will study a variety of poems, short stories, essays, and excerpts from longer works of fiction and non-fiction, and then you will be invited to create your own. In a workshop format, you will engage in the steps of the writing process, create, and revise your own work, and finally produce a variety of finished pieces. Some of the texts that will be studied include *On Writing* by Stephen King, *The House on Mango Street* by Sandra Cisneros and a large selection of short stories, essays, and poems.

EN 106– FOLKTALES, FAIRY TALES, LEGENDS & LORE
Full year course 1.0 unit of credit
"Once upon a time," there was a course that focused upon the history and development of a literary genre that has kept thousands entertained for centuries. We will study the origins of the Fairy Tale in the oral tales of ancient mythology, its development over thousands of years, and its final metamorphosis into a literary genre that has withstood the test of time. We will also discuss how Fairy Tales have morphed into poetry, short stories, novels, and movies and television. We will use The Norton Anthology of Fairy Tales, World Mythology by Donna Rosenberg, and Favorite Folktales from Around the World, in addition to independent reading selections from the Fantasy Genre.

EN 107– GRAPHIC NOVEL
Full year course 1.0 unit of credit
Do you like graphic novels? If so, then this class is for you! We will study critically acclaimed works like *Persepolis* and *Maus* in addition to contemporary lesser-known examples. We will examine traditional literary elements such as plot, characters, and conflict, in addition to considering how artistic decisions and components unique to the genre contribute to a deeper understanding of the text. The class will also give students an opportunity to write and design their own graphic novel.

EN 108– SPORTS LITERATURE
Full year course 1.0 unit of credit
Sports are a huge part of our culture, and this course will explore the inner workings of sports and sports culture from youth leagues to professional organizations. Many people love to watch sports and just as many love to play them. This course will focus on some of the interesting and engaging stories of athletes, their wins, and losses, who tells those stories, and how they are told. Works such as Basketball Junkies and What Made Maddy Run? Will be studied.

EN 109– UNRELIABLE NARRATOR
Full year course 1.0 unit of credit
Do you believe everything you read? Well, maybe you shouldn't! Have you ever read a story where the ending changed the whole plot? This class will explore a variety of works where the storyteller might not be telling the whole truth. You will also have the opportunity to try your hand at writing in an unreliable voice, attempting to trick your reader into believing what you say is true. Works like Flowers for Algernon, One Flew Over the Cuckoo's Nest, and the short stories of Edgar Allan Poe will be studied.

English 10 Courses

EN 203– DYSTOPIAN FICTION
Full year course 1.0 unit of credit
Dystopias are imagined worlds where life is full of challenges and suffering. Many authors create such worlds to teach readers about the dangers of technological advancements, governmental control, and environmental destruction. In this class, we will explore the creation of these dystopias and the messages contained within them.

EN 205– LITERATURE IN FILM
Full year course 1.0 unit of credit
This course equips students with the skills necessary to analyze and interpret visual media, including photography, advertisements, digital content, film, and political cartoons. The goal of the course is for students to learn to engage thoughtfully with images in media and everyday life. Students will also gain practical skills in visual presentation of information. Some of the texts and film adaptions we will study include works by Stephen King, Phillip K. Dick, and John Steinbeck.

EN 206– TECHNICAL THEATRE AND STAGE MANAGEMENT
Full year course 1.0 unit of credit
If there was an "All Call" to construct Flats on the Apron- would you come? Would you know that we were looking for all actors and crew members to help set up scenes on the front of the stage? If you take this class, you will learn all of that and more about the complex work and the multiple roles behind the scenes at a theatrical performance.

EN 110– INTRODUCTION TO THEATRE
Full year course 1.0 unit of credit
If you enjoy watching plays, performing in them, or working behind the scenes to construct them, this is the class for you. This class will provide you with the opportunity to explore all aspects of the Theatrical Experience, from reading and analyzing plays, to performing scenes, to learning about production.

EN 115– Journalism & Media Production
Full year course 1.0 unit of credit
This course will focus on creating robust and meaningful content in both print and multimedia formats. Students will generate content for the school yearbook and newspaper and will also produce regular podcasts, mini documentaries, and videos. Through these projects, they will explore how narratives interact with and influence the school and local community, utilizing multimedia and immersive experiences to foster engagement. By employing Design Thinking, students will develop content that resonates with their audience, enhances their communication skills and prepares them for future endeavors in media and creative expression.

HU 155 –ART, AND STORYTELLING
Full Year Course 1.0 unit of credit/elective
Since the dawn of time, people have been using stories and art to connect with one another and to explore their individual and cultural identities. Join us as we study a variety of storytelling genres and art techniques that span the timeline and the globe. In addition to studying others' works, we will spend time creating our own stories and artworks to add our voices to the conversation. Works studied include *Art Matters* by Chris Riddell and Neil Gaiman, *Miss Peregine's Home for Peculiar Children* by Ransom Riggs, *Blood, Water, Paint* by Joy McCullough, and *Smoke and Mirrors* by Neil Gaiman. This is an interdisciplinary course taught by an art and an English teacher.

EN 209– Theatre II
Full year course 1.0 unit of credit
This course continues to explore all aspects of the world of the theater. As the second year of the theater pathway, this class will build upon skills developed in Theater I, however, Theater I is not a prerequisite. Titles that will be studied include Antigone, Twelve Angry Men, Betrayal and Brighton Beach Memoirs.

EN 207– CONFLICTS IN NATURE & SOCIETY
Full year course 1.0 unit of credit
Conflict is an inescapable part of life. If you think about it, every story involves some form of a problem that must be addressed. This course is designed to expose students to close readings in fiction, nonfiction, and poetry, which deal with man's conflict with the world around him, as well as the inevitable conflict that develops within the self. Texts to be studied include *Into the Wild*, stories by Jack London, *Lord of the Flies*, and *Animal Farm*.

EN 240 - ADVANCED PLACEMENT (AP) ENGLISH LANGUAGE AND COMPOSITION

Full year course 1.0 unit of credit

AP English Language and Composition is an introductory college-level composition course. Students cultivate their understanding of writing and rhetorical arguments through reading, analyzing, and writing texts as they explore topics like rhetorical situation, claims and evidence, reasoning and organization, and style. Readings will be grouped thematically on such topics as education, gender, politics, and community. Entry into this course is predicated on successful completion of ninth grade English. NOTE: The course is sponsored with cooperation of the College Board – a nonprofit organization of more than 2500 colleges, universities and school systems. Students are required to pay a testing fee and sit for an examination in May. The number of college credits thus obtained depends on the student's AP test grade and college of choice. The cost of the test will be borne by the student.

English 11 & 12 Courses

EN 350 – ENGLISH LANGUAGE A: LITERATURE HL1

Full year course 1.0 unit of credit

The IB Language A: Literature HL 1 course is the required first part of a two-year course for all juniors. The IB Language A: Literature HL 1 course invites students to explore the ways in which literature connects across time and space to reflect global issues. Through close analysis of a range of literary texts from different times and places, students will consider their own interpretations as well as the critical perspectives of others, to explore how such positions are shaped by cultural belief systems and to negotiate meanings for texts. Works studied must be selected from the IB Prescribed List of Texts and half of those must be works in translation. Works studied include: The Fairy Tales of Charles Perrault, The Handmaid's Tale, The Poetry of Sylvia Plath, Perfume, Macbeth, and The Gypsy Ballads. Students must complete two IB Assessments during the year: The IB Learner Portfolio and the Individual Oral Commentary (IOC).

EN 380 – IB THEATRE I

Full year course 1.0 unit of credit

The first year of a two-year sequence, IB Theatre I is a multifaceted theatre-making course, giving students the opportunity to make theatre as creators, designers, directors and performers. It emphasizes the importance of working both individually and as part of an ensemble. It offers the opportunity to engage actively in the creative process of inquiring, developing, presenting and evaluating. Students are encouraged to work as inquisitive and imaginative artists, transforming ideas into action and communicating these to an audience. Through the study of theatre, students strengthen their awareness of their own personal and cultural perspectives, developing an appreciation of the diversity of theatre practices, their processes and their modes of presentation.

HU 155 –ART, AND STORYTELLING

Full Year Course 1.0 unit of credit/elective

Since the dawn of time, people have been using stories and art to connect with one another and to explore their individual and cultural identities. Join us as we study a variety of storytelling genres and art techniques that span the timeline and the globe. In addition to studying others' works, we will spend time creating our own stories and artworks to add our voices to the conversation. Works studied include *Art Matters* by Chris Riddell and Neil Gaiman, *Miss Peregine's Home for Peculiar Children* by Ransom Riggs, *Blood, Water, Paint* by Joy McCullough, and *Smoke and Mirrors* by Neil Gaiman. This is an interdisciplinary course taught by an art and an English teacher.

EN 450 – ENGLISH LANGUAGE A: LITERATURE HL 2

Full year course 1.0 unit of credit

Requires exam fees

The IB Language A: Literature HL 2 course is the required second part of a two-year course for all seniors. The Language A: Literature HL 2 course aims at exploring the various manifestations of literature as a particularly powerful mode of writing across cultures and throughout history. Through close analysis of a range of literary texts from different times and places, students will consider their own interpretations as well as the critical perspectives of others, to explore how such positions are shaped by cultural belief systems and to negotiate meanings for texts. Works studied include The Age of Innocence, The Great Gatsby, Brodeck, and Song of Solomon. Students will complete three IB assessments during the year: the HL Essay, Paper One: Guided literary analysis, and Paper Two: Comparative Essay. Entry into this course is predicated upon the successful completion of Language A: Literature HL 1. This course requires sitting for an IB Exam in May. The number of college credits thus obtained depends on the student's IB course score and college of choice.

EN 480 – IB THEATRE II SL
EN 490- IB THEATRE II HL

Full year course 1.0 unit of credit

In the second year of the sequence, IB Theater II students learn to apply research and theory to inform and contextualize their work as they experience the course through practical and physical engagement. The course encourages students to appreciate that through the processes of researching, creating, preparing, presenting and critically reflecting on theatre—as participants and spectators—they gain a richer understanding of themselves, their community and the world. This enables students to discover and engage with different forms of theatre across time, place and culture and promotes international-mindedness. Participation in the DP theatre course results in the development of both theatre and life skills; the building of confidence, imagination, creativity and a collaborative mindset.

WORLD LANGUAGES

All World Language courses are full-year courses carry 1.0 units of credit. The objective of World Language classes is to prepare students to use the target language in a range of situations. The course of study allows students to develop an awareness and appreciation of the culture(s) of the countries and communities in which the target language is used. The skills of listening, speaking, reading and writing are equally emphasized. These skills are taught and developed through a variety of activities. Evaluation will be based on project based learning and traditional assessment.

FRENCH • GERMAN • SPANISH

FF 210 - French II
FF 310 - French III
FF 410 - French IV
FF 510 - French V
FF 420 - IB French SL1__421 HL
FF 520 - IB French SL2__521 HL
FG 410 - German IV
FG 510 - German V
FG 420 - IB German SL1__421 HL
FG 520 - IB German SL2__521 HL
FS 110 - Spanish I
FS 210 - Spanish II
FS 310 - Spanish III
FS 410 - Spanish IV
FS 510 - Spanish V
FS 420 - IB Spanish SL1__421 HL
FS 520 - IB Spanish SL2__521 HL

LEVEL I
The emphasis in this level is on comprehension of and communication in the world language. Continuous imitation and repetition of the spoken language is stressed. Memorization of vocabulary and verb forms is vital. Dialogues are acted out in class. Basic grammar is taught with each topic. For students who have not previously met their world language requirement for graduation, successful completion of this course satisfies that requirement.

LEVEL II
Oral communication, reading, listening, and writing in the target language are emphasized. It is expected that the student has mastered the basic skills introduced in the Level I curriculum. Reading comprehension skills are developed and grammar is emphasized.

The Honors course is intended to prepare students for the IB and AP courses offered in all three languages. Reading, writing, and speaking skills will be more intensively developed in the enrichment projects; developing fleuncy is expected within the course content.

LEVEL III
Oral communication, reading, listening, and writing in the target language continue to be emphasized. Students are expected to write compositions, read longer texts in the target language and give oral reports. All students take a locally created state-mandated exam. Assessment will earn students the required credit for an advanced Regents diploma.

The honors course is intended to prepare students for the IB and AP courses offered in all three languages. Reading, writing, and speaking skills will be more intensively developed in the enrichment projects; further developing fluency is expected within the course content.

Level IV/V Spanish - The themes studied in the previous three levels are expanded and enriched in this course. Students will continue to grow in reading, writing, listening and speaking skills. A greater emphasis is placed upon using the target language spontaneous, culture and interactive use of the target language.

Level IV/V Spanish, French and German –The themes studied in the previous three levels are expanded and enriched in this course. Students will continue to grow in reading, writing, listening and speaking skills. A greater emphasis is placed upon using the target language spontaneously. **Note:** contingent upon the number of students as well as staffing within the department, the students in these courses may be combined into IB.

INTERNATIONAL BACCALAUREATE LANGUAGE B
The Language B curriculum has five themes; Human Ingenuity, Sharing the Planet, Identity, Social Organizations, and Experiences. The teacher will select current articles related to the topics encompassed by these themes. Sample topics may include immigration, school systems, protecting the environment, holiday customs, and traditions.

The IB course is taught primarily in the target language. The prerequisite is the successful completion of levels I, II, and III. Requires exam fees

MATHEMATICS

MA 120 - ALGEBRA 1
Full year course 1.0 unit of credit
Students in this state curriculum developed course will acquire skills and thinking necessary in solving problems in a variety of disciplines. Topics such as linear, quadratic, and exponential functions, data analysis, and rational expressions will be included. The Algebra 1 Regents Exam will be administered at the end of the year.

MA 130 - ALGEBRA 1A
Full year course 1.0 unit of credit
Students in this state curriculum developed course will take the Algebra 1 Regents Exam after completing the Algebra 1 curriculum in 4 semesters (2 years). Topics such as the following will be covered: linear equations, inequalities, functions and the coordinate plane, and systems of linear equations.

MA 140 - ALGEBRA 1B
Full year course 1.0 unit of credit
Prerequisite: Passed Algebra 1A
Students in this state curriculum developed course will take the Algebra 1 Assessment Exam at the end of this year after having completed the second year of the course. Topics such as the following will be covered: quadratic and exponential functions rational expressions, and data analysis. The Algebra 1 Regents Examination will be administered at the end of the year.

MA 220 – GEOMETRY AND PROOF
Full year course 1.0 unit of credit
Prerequisite: Passed Algebra 1 with a regents score of 75 or higher
Students in this state curriculum developed course will focus on the conceptual categories of geometry and modeling. Domains include congruence, similarity, right triangles, and trigonometry, circles, geometric properties with equations, geometric measurement and dimension. Proof will be a major component of this course. The Geometry Regents Examination will be administered at the end of the year.

MA 230 - GEOMETRY
Full year course 1.0 unit of credit
Prerequisite: Successful completion of Algebra 1 or Algebra 1B
Students in the this course will focus on the **informal** and at times formal development of geometry and modeling. Domains will include congruence, similarity, right triangles, and trigonometry. There will be a local assessment at the end of the course.

MA 311 – APPLIED MATHEMATICS
Full year course 1.0 unit of credit
Prerequisite: Completed Algebra 1 and Geometry (or Geometry and proof)
Applied Mathematics is designed for the student who has completed 2 credits of high school mathematics and has passed one mathematics Regents examination but does not desire the Advanced Regents Diploma designation. This course will be presented in a manner that will integrate problem solving strategies and the graphing calculator. Some topics to be included are functions, financial applications, statistics, probability, and trigonometric functions.

MA 320 - ALGEBRA 2
Full year course 1.0 unit of credit
Prerequisite: Passed Algebra 1 and Geometry.
Students in this state curriculum developed course will continue to develop alternative solution strategies and algorithms. It is rigorous and a fast-paced course. Topics include polynomial, radical and rational relationships, an algebraic and graphic analysis of exponential, logarithmic and trigonometric functions including transformations of their graphs, right triangle trigonometry with circular function representation, sequences, series and their applications, conditional probability, independence, statistical studies including inferences, confidence intervals and making conclusions. The Algebra 2 Regents Examination will be administered at the end of the year.

MA 330 - ALGEBRA 2A
Full year course 1.0 unit of credit
Prerequisite: Passed Geometry
This is year one of a two-year course. Students in this state curriculum developed course will continue to develop alternative solution strategies and algorithms. It is a deeper continuation and extension of Algebra 1 and Geometry. Topics include polynomial, radical and rational relationships, an algebraic and graphic analysis of exponential and logarithmic functions including transformations of their graphs.

MA 340 - ALGEBRA 2B
Full year course 1.0 unit of credit
Prerequisite: Passed Algebra 2A
This is year two of a two-year course. The students will incorporate former topics from Algebra 2A while learning new topics which include right triangle trigonometry with circular function representation, transformation and applications of trigonometric graphs, sequences, series and their applications, conditional probability, independence, statistical studies including inferences, confidence intervals and making conclusions. The Algebra 2 Regents will be administered at the end of the year.

MA 510 – COLLEGE STATISTICS
Full year course 1.0 unit of credit
Prerequisite: Algebra 2, 12 Grade only
This course is a college level and credited by the Board of Regents for motivated college bound students. The intent of the course is to provide the fundamentals of statistics suitable for business, medical and social sciences. NOTE: This course is comparable to Introductory Statistics I at Marist College. Upon application and payment of fees, Marist College will grant three credits for successful completion of the course. Students' scores will be posted on their transcripts only upon request.

MATHEMATICS

MA 530 - PRE-CALCULUS
Full year course 1.0 unit of credit
Prerequisite: Passed Algebra 2 with a final exam grade of at least 75 and a final mark of at least 75.
This course is a college level elective that is designed to prepare the college bound student for Calculus. This course will include higher level mathematics topics such as: linear, quadratic, exponential, logarithmic, trigonometric, polynomial and inverse functions. Modeling applications and analysis of the functions are emphasized and reinforced with a graphing calculator.
NOTE: This course is a college credit bearing course through Dutchess Community College. Students will have to complete an enrollment process for Dutchess Community College. DCC will grant four credits for successful completion of the course.

MA 190—DISCOVERING COMPUTER SCIENCE
Full year course 1.0 unit of credit
An introductory course appropriate for 9th grade students regardless of any computer science background. The course aims to empower students to create authentic artifacts and engage with computer science as a medium for creativity, communication, problem solving, and fun. CS Discoveries (CSD) takes a wide lens on computer science by covering topics such as programming, physical computing, web development, design, and data. The course inspires students as they build their own websites, apps, games, and physical computing devices. Students who participate in Discovering Computer Science will be eligible and prepared to take AP Computer Science Principles in 10th grade.

MA 612—AP COMPUTER SCIENCE PRINCIPLES
Full year course 1.0 unit of credit
Open to students in 10-12

Prerequisite: Successful completion of Algebra 1
This course is a full year course equivalent to a first semester introductory college computing course. Students will learn the basics of writing code using the languages Python and JavaScript with a focus on creativity in programming as the students build their own apps and write original programs with the skills they gain throughout the year. In addition, students will explore many foundational areas of computing to understand how these concepts are transforming the world we live in.

MA 613 AP COMPUTER SCIENCE A
Full Year Course 1.0 unit of credit
Open to students in 11-12 grade
Prerequisite: Successful completion of AP Computer Science Principals, Principals of Engineering or instructor approval

Computer Science A (CSA) introduces students to software engineering and object-oriented design while learning the Java programming language. This course is recommended for any high school student who wants to continue their computer science education after completing an introductory course, such as CS Principles. Students expand their programming skills by developing solutions in the Java programming language, building on the knowledge they acquired from their previous introductory computer science course.

IB MATH PROGRAM

MA 455 - IB MATHEMATICS: APPLICATIONS AND INTERPRETATIONS
Full Year Course 1.0 unit of credit
Prerequisite: Passed MA 320 or MA 340 Requires exam fee

IB Math Applications and Interpretations is designed to prepare the college bound student for future math studies in pre-calculus or calculus, as well as for the IB Math Applications and Interpretations SL exam. Topics of study include: numbers and algebra, functions, geometry and trigonometry, statistics and probability, and calculus.

The course includes an independent research project (Mathematical Exploration) which counts for 20% of the IB Math Applications and Interpretations evaluation. An external assessment (Paper 1 and Paper 2) will also be given which accounts for 80% of the IB Math Applications and Interpretations evaluation.

MA 465 IB MATHEMATICS: ANALYSIS AND APPROACHES
Full Year Course 1.0 unit of credit
Prerequisite: Passed MA 320 Requires exam feel
Year 1 of a 2 year course
IB Mathematics: Analysis and Approaches SL is an advanced study of mathematics, designed to prepare the college-bound student for the IB Mathematics: Analysis and Approaches exam and AP Calculus. It is a rigorous course of study specifically designed for the student who expects to go on to study in any field which has significant mathematical content such as science, business, or technology. The course focuses on the methods of mathematical calculation and problem solving in a wide spectrum of topics, including, but not limited to function analysis, geometry, trigonometry, probability, statistics, differentiation and integration.

The class will include an Internal Assessment project, based on different areas of the syllabus to be completed over 2 years. The project will account for 20% of the IB Mathematics evaluation, scored locally, but moderated by the International Baccalaureate Organization (IBO). A May exam, administered by the IBO at the end of the 2nd year of the course, will account for the remaining 80% of the IB Mathematics evaluation.

MA 560 - IB MATH ANALYSIS 2/ AP CALC
Full year course 1.0 unit of credit
Prerequisite: IB MATHEMATICS: ANALYSIS & APPROACHES (Year 1)or MA 530 PRE- CALCULAS. Requires exam fee
Year 2 of a 2 year course. This course is intended for students who have a thorough knowledge of college preparatory mathematics, including algebra, plane geometry, trigonometry and analytic geometry. Topics of study include limits, differentiation and integration. Students will take the Advanced Placement Calculus Exam and the IB External Assessment in the spring. Many colleges grant advanced placement and/or credit for the course up to 2 semesters worth if the student obtains an adequate score on these exams.

MUSIC

MU 105 - INTRODUCTION TO MUSICAL THEATRE PERFORMANCE

Full year course 1.0 unit of credit

This introductory course is designed for all students interested in developing the skills associated with musical theatre performance. The course requires no prior music or theatre experience, however enrolled students are expected to sing and act regularly in class. The curricular focus will be acting, musical theatre methods, directing, and technical theatre. In addition, an introduction to the history of the American Musical will be provided. Upon completion of the class, students will have developed skills necessary to successful participation in school, community, or collegiate theatre programs.

MU 106 - INTERMEDIATE MUSICAL THEATRE PERFORMANCE

Full year course 1.0 unit of credit

Pre-requisite: MU105

Students who have completed MU105 (Intro to Musical Theatre Performance) are eligible to continue their study of musical theatre in this class, designed to provide students with further opportunity to develop their knowledge and skills in the area of acting, musical theatre methods, directing, and technical theatre. Special focus will be place on peer mentorship and second year students will be expected to support the learning growth of the first year students in the Intro to Musical Theatre Performance class.

MU 110 - SYMPHONIC BAND

Full year course 1.0 unit of credit

Prerequisite: Successful completion of previous year's LAMS or RHHS band curriculum, or permission of the instructor.

This course involves the intensive study of a wind or percussion instrument and performance in a large-group setting, stressing musical literacy and the development of independent musicianship. In addition to daily ensemble rehearsals, students are required to attend weekly group lessons during the school day, practice at home regularly, and perform in concerts outside normal school hours. Students are expected to reach an advanced level in all aspects of musicianship, including tone quality, intonation, technique, rhythm, interpretation, theory, and ensemble skills.

NOTE: This course meets every day for a full school year. Partial enrollment is by permission of the instructor only.

MU 120 - CONCERT CHOIR

Full year course 1.0 unit of credit

Prerequisite: Successful completion of previous year's LAMS or RHHS choral curriculum, or permission from the instructor.

This course involves the intensive study of music through vocal performance. The curriculum stresses music literacy and the development of healthy and effective vocal technique. Students are expected to reach an advanced level in all aspects of musicianship including tone quality, intonation, diction, breath support, solfeggio, rhythm, expression, and music theory. Several performances outside of the school day are required for satisfactory participation in the course. Additionally, students are scheduled for mandatory small group enrichment lessons that meet weekly during the school day on a rotational basis.

NOTE: Partial enrollment is by permission of the instructor only.

MU 450 - AP MUSIC THEORY

Full year course 1.0 unit of credit

Open to students in grades 10-12 who have a strong background in both performance and music reading. Requires exam fee

AP Music Theory is a college-level introductory course in music theory and ear training. This is a fast-paced course covering topics taught in the first year of a typical college music theory course and is intended for students who are ready for a demanding curriculum. Students take the College Board AP Music Theory exam in May. This course is strongly recommended for students considering majoring or minoring in music in college. It is recommended that interested students take this course in 10th grade if their schedule allows.

FAMILY AND CONSUMER SCIENCES

FC 110 - BAKING I
Half year course .5 unit of credit
Open to students in grades 9 - 12
In this course, students will learn advanced food preparation techniques, the importance of food appearance and presentation, and the use of specialized equipment.
Topics include: Kitchen Safety, equipment, quick bread, pies, and cookies. Lessons are based on the aforementioned topics. Kitchen Labs are used to reinforce learned skills.

FC 111 - BAKING II
Half year course .5 unit of credit
Open to students in grades 9-12
Baking I is not a prerequisite
This course continues the concepts presented in Baking I.
Laboratory experiences will dovetail and reinforce the concepts taught in Baking I.
Topics include: Kitchen Safety, equipment, cakes, cheese, eggs, and salad. Lessons are based on aforementioned topics. Kitchen Labs are used to reinforce learned skills.

FC 165 – THE BREAKFAST CLUB
Half year course .5 unit of credit
Open to students in grades 9 – 12, preference given to 11th and 12 grade
"The Breakfast Club" is an innovative and engaging course designed to meet the New York State family and Consumer Science standards. This course emphasizes the importance of breakfast as part of a healthy lifestyle while exploring its role in various cultures around the world. Students will develop practical cooking skills, learn nutritional science ,and gain cultural literacy, making connections between food, history and community.

FC 210 - FOREIGN FOODS
Half year course .5 unit of credit
Open to students in grades 9 - 12
In this course, students will explore a variety of culture specific foods and preparation techniques. Through the study of food ways, students will gain an understanding of cultural differences and interdependence of regions and countries around the world.

SC 510 - FOOD SCIENCE
Full year course 1.0 unit of credit
Open to students in grades 11 - 12
This course offers students the chance to reinforce and enhance knowledge of scientific principles and processes through the study of foods and nutrition. Students are offered the chance to understand the science behind nutrition, an opportunity to understand the food industry and a look into the science behind preparing food in their daily lives. This course fulfills the third science requirement for students and counts as a local credit. The course involves hands on laboratory experiments and offers students a chance to study science outside the laboratory and inside the kitchen.
This course will cover all of the topics suggested by the NYS Department of Education. These topics include, but are not limited to:

- Food Science and Its Relevance to Global Society
- Research Practices in Food Science
- Concepts of Physical Sciences Relevant to Food Science
- Concepts of Life Science Relevant to Food Science
- Water, Carbohydrates, Lipids, Proteins, Vitamins and Minerals
- Introduction to Microorganisms
- Food Preservation
- Food Safety
- Technological Advances in Food

HU 160 – WORD TO TABLE
Full Year Course 1.0 unit of credit/elective
12 graders only
The following co-taught class will develop an appreciation for cultures through literature and food science. Students will appreciate two vital elements of life: literature and food. Students will explore four primary geographical areas: the Americas, Europe, Africa and Asia, and The Middle East. Students will develop and refine creative writing skills as well as develop understanding and appreciation of the food each region while working in small groups. This course is open for seniors with a limit of sixteen participants. This will be a full year course awarding students half credit in English and half an elective credit.

TECHNOLOGY EDUCATION/ INDUSTRIAL ARTS

TE 150 - DESIGN AND DRAWING FOR PRODUCTION
Full year course 1.0 unit of Art or Tech credit
Open to students in grades 9 - 12
Bringing math, science and technology together, this course is a hands-on, laboratory based course which introduces students to the concepts of 3D drafting. By focusing on the applications of CAD program, students will develop problem solving skills using various methods to analyze and produce products of their design.

TE 160 - COMPUTER ASSISTED DRAFTING/3D GRAPHICS
Half year course .5 unit of credit
Open to students in grades 9 - 12
This course is an introduction to the world of drafting using the newest version of AutoCAD (the most commonly used CAD program in industry today). All Technology Education majors are encouraged to take at least one of our drafting/design classes. Students will explore the fundamentals of design and mechanical drawing as well as more advanced concepts. Areas of instruction now include 3D modeling and the exciting world of 3D printing!!! Career opportunities and the impact of computer-aided design will be discussed. This course is a must for gaming design, movie special effects, and engineering enthusiasts.

TE 170A – MATERIALS PROCESSING: WOOD
TE 270A- ADVANCED WOOD
Half year course .5 unit of credit
Open to students in grades 9 - 12
This course will give an overview of the methods used to change lumber into useable and decorative goods. Students will learn the fundamentals of woodworking, such as: measuring; finding angles; cutting using saws (miter, band, table, etc.) and methods of joinery.

TE 170B – MATERIALS PROCESSING: METAL
TE 270B- ADVANCED METAL
Half year course .5 unit of credit
Open to students in grades 9 - 12
This course will give an overview of the methods used to change raw steel and sheet metal into usable and decorative goods. Students will learn the fundamentals of fabrication, such as: measuring, finding angles, and cutting using saws (cut-off, band, hack, etc.) as well as plasma and compressed gas. This class will also focus on the three main types of welding: Arc, Mig and Tig.

TE 210 – DRONE TECHNOLOGY
Half year course 0.5 unit of credit
Open to students in grades 10 – 12
This course introduces students to the exciting field of unmanned aerial systems (UAS). Students will learn the fundamentals of drone operation, safety protocols, regulations, and applications in industries such as agriculture, construction, photography, and environmental science. Hands-on experience with drones will develop piloting skills, problem-solving, and creative thinking. By the end of the course, students will understand how drones are shaping the future and be prepared for further exploration or certification in drone technology.

TE 215 – COMPUTER INTEGRATED MANUFACTORING
Half year course 0.5 unit of credit
Open to students in grades 10 – 12
This course explores the integration of computers, robotics, and automated systems in modern manufacturing processes. Students will gain hands-on experience designing and programming systems that produce high-precision parts using cutting-edge technology such as CNC machines and 3D printers. Through collaborative projects, students will learn about efficiency, quality control, and the role of automation in global industries. This course prepares students for careers or further study in advanced manufacturing and engineering.

TE 230- DESIGN AND MANUFACTURING
Half year course .5 unit of credit
Open to students in grades 9 - 12
This course will give an overview of the systems of manufacturing; the resources, processes, products and quality assurance; the impact on society, the economy, the environment, and manufacturing. Lab work will consist or idealizing, planning, and mass producing a quality product utilizing woodworking, metalworking, plastic forming and 3D printing.

TE 250 – POWER MECHANICS
Half year course .5 unit of credit
Open to students in grades 10 - 12
This course offers the student an opportunity to study, service, and repair the workings of many pieces of power/ heavy equipment that can be found in both the Residential and Industrial settings. Some examples include: Tractors/Mowers, Snowblowers, Snow Plows, All-Terrain Vehicles. Systems to be studied will be the fuel, ignition, hydraulics, and small engines. Careers and further education will be discussed.

TE 320 -RESIDENTIAL CONSTRUCTION
Half year course .5 unit of credit
Open to students in grades 9 - 12
This course is a study of skills involved in construction of residential buildings. Content includes planning, estimating, framing roofs, floors and walls, quality assurance and environmental impacts. Building and delivery of a wood-framed structure culminates the course.

TE 340 - AUTOMOTIVE TECHNOLOGY
Half year course .5 unit of credit
Open to students in grades 9 - 12
This course offers the student an opportunity to study the workings of the modern automobile by doing basic, routing, maintenance on automobiles. Oil changes, tune-ups, tire changes, lightbulb and wiper replacement and knowledge of tools are some the concept covered. Careers and further education will be discussed. Students who own their own vehicle may have an opportunity to work on their own vehicle.

TE 440 – ADVANCED AUTOMOTIVE TECHNOLOGY
Half year course .5 unit of credit
Open to students in grades 10 – 12
Prerequisite: Automotive Technology
Take a deep dive into Automotive Technology! Combine knowledge of tools and equipment with the principles, rules, and science of cars and trucks. Systems to be studied will be the fuel, suspension, brakes, and electric. You will also learn how the drivetrain of the automobile is put together and how to rebuild/ replace various parts that go beyond basic maintenance. Students will be diagnosing problems and use logic and reason to determine sensible solutions.

TECHNOLOGY EDUCATION / PROJECT LEAD THE WAY

PLTW's mission is to prepare students for the global economy, which it does by increasing the number of American students prepared to enter the science, technology, engineering, and mathematics (STEM) workforce. PLTW programs give students hands-on, project-based experiences, helping them link math and science concepts to real-world problem solving. A focus on offering career-based opportunities to students has been encouraged by research indicating that the majority of professional scientists became interested in science before high school and that positive experiences with science during their school years were particularly important in influencing their career directions.

SC 511 – PRINCIPLES OF ENGINEERING (PLTW-POE)
Full year course 1.0 unit of credit in Technology or Science
Open to students in grades 10– 12
Prerequisite: Design and Drawing for Production or Introduction to Engineering and Design
Bringing math, science and technology together, this nationally recognized, Project Lead The Way course is designed for 11th or 12th grade students. This hands-on course exposes students to major concepts they'll encounter in a postsecondary engineering course of study. Topics include mechanisms, energy, statics, materials, robotics, 3D design and kinematics. They develop problem-solving skills and apply their knowledge of research and design to create solutions to various challenges, document their work and communicate solutions.
Offered in 2026-2027 school year

TE130- INTRODUCTION TO ENGINEERING AND DESIGN (PLTW-IED)
Full year course 1.0 unit of credit
Open to students in grades 9 - 12
Bringing math, science and technology together, this nationally recognized, Project Lead The Way course is a hands-on, laboratory based course which introduces students to concepts of 3D drafting. By focusing on the applications of the applications of Onshape, a premier 3-D modeling program, students will develop problem solving skills using various design methods to analyze and produce products meeting certain client needs.

TE180 - COMPUTER SCIENCE AND SOFTWARE ENGINEERING (PLTW-CSE)
Full year course 1.0 unit of credit
Open to students in grades 9 - 12
(CSE) Using Python® as a primary tool and incorporating multiple platforms and languages for computation, this course aims to develop computational thinking, generate excitement about career paths that utilize computing, and introduce professional tools that foster creativity and collaboration. This course can be a student's first course in computer science, although we encourage students without prior computing experience to start with Introduction to Computer Science. CSE helps students develop programming expertise and explore the workings of the Internet. Projects and problems include app development, visualization of data, cybersecurity, robotics, and simulation. The course aligns with the Computer Science Teachers Association (CSTA) 3A standards.

TE 195 – CIVIL ENGINEERING AND ARCHITECTURE (PLTW)
Full year course 1.0 unit of credit
Open to students in grades 10 – 12
Prerequisite: Design and Drawing for Production or Introduction to Engineering and Design
Study the design and construction of residential and commercial building projects. The course includes an introduction to many of the varied factors involved in building design and construction including building components and systems, structural design, storm water management, site design, utilities and services, cost estimation, energy efficiency and careers in the design and construction industry.

DUTCHESS BOCES
CAREER AND TECHNICAL INSTITUTE (CTI) PROGRAM

CTI AM - OCC. ED.
CTI PM - OCC. ED.
Students enrolled in the Technical Ed. program attend classes at the Dutchess BOCES Career & Technical Institute (C.T.I.) one half of each school day and their home school the other half of each day. Courses are usually taken in Grades 11 and/or 12.

A wide variety of courses are offered in a 30-shop facility plus a cooperative work study program. Courses are redesigned based upon employment potential and student enrollment.

PROGRAMS AND COURSES
The Occupational Education Program at the Dutchess BOCES Career and Technical Institute is organized into Instructional areas (disciplines) and subsequent Occupational Education sequences as follows:

AGRICULTURE
- Careers in Animal & Plant Sciences I
- Careers in Animal & Plant Sciences II

ARCHITECTURE & CONSTRUCTION
- Construction Trades I
- Construction Trades II
- Electrical Construction Technology I
- Electrical Construction Technology II
- Welding and Fabrication I
- Welding and Fabrication II
- Heating, Ventilation and Air Conditioning I
- Heating, Ventilation and Air Conditioning II

ARTS, TECHNOLOGY & COMMUNICATION
- Graphic Design I
- Graphic Design II
- TV/Film I
- TV/Film II
- Fashion Design and Merchandising I
- Fashion Design and Merchandising II

EDUCATION
- Early Childhood Education I
- Early Childhood Education II

HEALTH SCIENCES
- Nursing Assistant I
- Nursing Assistant II(CNA)

HOSPITALITY & TOURISM
- Culinary Arts/ Restaurant Management I
- Culinary Arts/ Restaurant Management II

HUMAN SERVICES
- Cosmetology I
- Cosmetology II
- Esthetics I

INFORMATION TECHNOLOGY
- Computer Hardware Technology
- Computer Networking

LAW & PUBLIC SAFETY
- Security and Law Enforcement I
- Security and Law Enforcement II

TRANSPORTATION
- Automotive Technology I
- Automotive Technology II
- Small Engine Technology I
- Small Engine Technology II

PHYSICAL EDUCATION

All students must earn the two credits in Physical Education by participating every other school day and passing the course in each of four years.

9th, 10th, 11th & 12 Grade PE

This combined class of 9-12th grade students will participate in various strands of PE choices (when two PE teachers are scheduled together). Students in cotaught classes will choose between marking period strands of Group Team Sports and Lifetime Rec Sports PE.

- The main focus of Group Team Sports will be playing games in groups for both traditional and contemporary team sports. Activity units will include Flag Football, Soccer, Speedaway, Ultimate Frisbee, Volleyball, Lacrosse, Basketball, RollerHockey, Floor Hockey, Softball, Badminton and Table Tennis and, Fitnessgram assessment.
- The main focus of Lifetime Rec Sports PE will be participating in individual and dual sports such as tennis, pickleball, speedminton, dotball 360, biking, walking and hiking outdoors, cross country skiing and snowshoeing, badminton, table tennis, dance, archery, yoga, group exercise classes, climbing the high elements and Fitnessgram assessment and use of the Wellness Center.

All 9th grade students will need to complete a comprehensive personal fitness orientation including target heart rate, concepts in cardiovascular and resistance training, demonstrate proficiency in usage of the Wellness Center, body conditioning with apparatus, , complete the climbing high challenge course (as a team belay member or climber) and participate in competitive and cooperative team games.

Adaptive PE

This class is for students with medical issues or special needs and will be structured for small group experiences in a variety of team and individual/dual sports as well as incorporate use of the wellness center. Fitnessgram assessments will be required and individualized programs will be developed.

UNIFIED Physical Education class:

Unified Physical Education is a concept for bringing students with and without disabilities together, as equals, in a physical education setting where all students earn physical education credit, thus putting all students on equal footing.

Unified Physical Education is not meant to take the place of existing physical education requirements or adapted physical education, but rather be an additional inclusionary opportunity for students who choose to join the class.

Unified PE is integrating physical activity, fitness, sports, health, wellness, nutrition and student leadership into physical education and the broader school community

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The primary objectives are anchored in the NYS Leaning Standards

Standard 1 – Demonstrates competency in a variety of motor skills and movement patterns.
Standard 2 – Applies knowledge of concepts, principles, strategies, and tactics related to movement and performance
Standard 3 – Demonstrates the knowledge and skills to achieve and maintain a health-enhancing level of physical activity and fitness.
Standard 4 – Exhibits responsible personal and social behavior that respects self and others.
Standard 5 – Recognizes the value of physical activity for overall wellness, enjoyment, challenge, and/or self-expression.
Standard 6 – Recognizes career opportunities and manages personal and community resources related to physical activity and fitness to achieve and maintain overall wellness.

Grades earned in PE will be based on:

Assessments will be formal, informal, formative and summative in the Cognitive, Affective and Psychomotor domains of learning.

PE 512 IB SPORTS EXERCISE AND HEALTH SCIENCE SL

Full year course 1.0 unit of Science credit
.5 Physical Education credit

Prerequisite: Anatomy & Physiology and Physics Requires exam fee
Recommended Course to take prior: Psychology and Statistics

Offered at the standard level, IB Sports Exercise and Health Science (SEHS) incorporates the disciplines of anatomy and physiology, biomechanics, psychology and nutrition, which are studied in the context of sport, exercise and health.

The course will guide students through the study of human performance by examining 3 specific content core areas of focus.

2025-2026 IB Syllabus revised content includes:

1- Exercise physiology and nutrition of the human body - Communication, hydration and nutrition, response

2 – Biomechanics - Generating movement in the body, forces, motion and movement and Injury

3 – Sports psychology and motor learning – Individual differences, motor learning, motivation, stress and coping, psychological skills

Students will learn how to coach, personal train and develop mastery of excel spreadsheet functions to analyze human performance data. Each student will conduct an internal assessment of a human performance investigation using the scientific method. Students will be evaluated both locally and by a IB moderator. The external assessment will be conducted in April or May and is a cumulative exam encompassing coursework from classes in anatomy & physiology, physics and IB Sports Exercise and Health Science.

PE201 SUNY Dutchess Mind Body Wellness

Full year course .5 Physical Education credit
Grades 10-12

The mind/body wellness elective will include a study of how to create calmness, relaxation and positive thought process in the human body. Students would experience different forms of stretching and movement such as dynamic and static stretching, mindful ergonomics, guided relaxation, mindfulness breathing and awareness, Hatha yoga, Pilates, progressive muscle relaxation, visualizations and Tai Chi. Sound research from current sources such as The Lift Project by Dr. Darren Morton will be incorporated. Students in this course will be eligible to take the class for college credit through SUNY Dutchess.

SCIENCE

The goals of the Red Hook Science program are aligned with national as well as state standards. These standards were designed to ensure a high quality of education by promoting scientific literacy for all students. The goals for the standards are to educate students:

- to experience the richness and excitement of knowing about and understanding the natural world.
- to use appropriate scientific processes and principles in making decisions.
- to engage intelligently in public discourse and debate about matters of scientific and technological concerns.
- to increase their economic productivity through use of knowledge, understanding and skills of the scientifically literate person in their careers.

In order to address these standards, all college bound students are recommended to complete at least one credit in each of the four areas of science; Earth, Biology, Chemistry, and Physics.

LABORATORY REQUIREMENTS FOR REGENTS COURSES

Laboratory experience is required by the New York State Education Department in each of the four science courses. This requirement follows directly from the fact that these courses are laboratory courses, and successful completion of any one earns for the student one unit of credit for a laboratory science. Students must be engaged in laboratory activities for at least 1200 minutes exclusive of time used in changing of classes or teachers, or an equivalent period of time as certified by the high school principal. Satisfactory written reports of these laboratory experiences must be prepared by the student. These reports must be kept in the school for six months following the date of the examination, except in cases where a senior request such reports for further work.

It should be noted that effective December 19, 1979, Section 8.2 of the Rules of the Board of Regents was amended by the addition of a new subdivision (c) which states: "Only those persons who have satisfactorily met the laboratory requirements as stated in the stated syllabus for a science shall be admitted to a Regents examination in such science." The Red Hook Science Department also requires all current labs to be submitted by students to be admitted to their midterm exam.

SC 110 – EARTH STUDIES
Full year course in physical science 1.0 unit of credit
Open to students in grades 9-10
This is a course designed for those students who need reinforcement of science principles and methods. The course explores many of the topics in the regents Earth Science curriculum and includes lab activities and written work. Earth Studies fulfills the physical science requirement. It should be completed before taking Living Environment – Regents.

SC 121 - EARTH AND SPACE SCIENCE - REGENTS
Full year course in physical science 1.0 unit of credit
This course is designed for the student who intends to pursue additional study of science at the Regents level or higher. Topics covered include Geology, Meteorology, and Astronomy. The Regents laboratory requirement must be met by students in this course to sit for the Regents exam. This course fulfills the requirement of a physical setting credit for the Regents Diploma.

SC 131 - EARTH AND SPACE SCIENCE - HONORS
Full year course in physical science 1.0 unit of credit
This course is designed for the student who has successfully completed Honors/Accelerated Biology in 8th grade and who intends to pursue the study of science at advanced (Honors, AP or IB) levels. Curriculum covered includes the Regents Earth science topics and additional topics. Completion of a series of enrichment projects is required.

SC 220 - BIOLOGY - REGENTS
Full year course in life science 1.0 unit of credit
Open to students in grades 9-10
Students will be attempting to meet the expectations of the Life Science Learning Standards of New York State. Students will be constructing, reusing explanations and models. Students will be collecting data; analyzing it and presenting it to peers. The Regents laboratory requirement must be met by students in this course to sit for the Regents exam. Laboratory experiences include dissection.

SC 320 - CHEMISTRY - REGENTS
Full year course in physical science 1.0 unit of credit
Open to students in grades 10 - 12
Prerequisites:

- **Math co-requisite:**
  10th grade—Geometry & Proof or higher
  11th or 12th grade--Algebra 2A or higher
- **Successful completion of Regents Biology and Regents Earth Science.**

Chemistry is the study of the composition of matter and the changes which it undergoes. The following topics are covered: matter and energy, atomic structure, bonding, the periodic table, the mathematics of chemistry, kinetics, equilibrium, acids and bases, redox and electrochemistry, nuclear chemistry, and an introduction to organic chemistry. Chemistry is a math-intensive science course. Math skills are essential to success in this course. Successful completion of all laboratory exercises is required.

SC 330 - CHEMISTRY - HONORS
Full year course in physical science 1.0 unit of credit
Open to students in grades 10 - 12
Prerequisites:

- **Math co-requisite: 10th grade—Geometry and Proof or higher, 11th and 12th grade--Algebra 2A or higher**
- **Successful completion of Regents Biology and Regents Earth Science.**

This course is similar to Regents Chemistry but explores chemical theories in greater depth. The course prepares students for advanced study in the IB High Level/AP sciences. The lab program also prepares students for the IB internal assessment. Successful completion of all laboratory exercises is required.

SCIENCE

SC 420 - PHYSICS - REGENTS

Full year course in physical science 1.0 unit of credit

Open to students in grades 11 - 12

Prerequisites or Co-requisite: Concurrent enrollment in Algebra 2 or higher; successful completion of Biology and Earth Science; strong math and science skills

This course presents a view of both classical and modern physics with the major emphasis placed on the fundamental concepts underlying this basic science. Core topics covered include: I. Mechanics, 2. Energy, 3. Electricity and Magnetism, 4. Wave Phenomena, 5. Modern Physics. Students may take the regents in physics if the lab requirement is met,

SC 460 IB Physics SL1

Full year course in physical science 1.0 unit of credit

Open to students in grades 11 - 12

Prerequisites or Co-requisite: Concurrent enrollment in Algebra 2 or higher; successful completion of Biology and Earth Science; strong math and science skills

This course is highly recommended for students interested in careers in engineering, alternative energy, climate science, and health-related fields.

This class is the first year in a two year sequence for IB Physics. Students will study mechanics, circular motion, wave phenomena.

SC 461 - IB PHYSICS SL 2

Full year course in physical science 1.0 unit of credit

Open to students in grades 11 – 12 Requires exam fee

Prerequisites: Successful completion of IB Physics SL1. Successful completion of, or concurrent enrollment in higher level math, such as IB or AP mathematics. Strong math and science skills. Requires exam fee.

This course is highly recommended for students interested in careers in engineering, alternative energy, climate science, and health-related fields. Topics include: 1. Thermal Physics, 2. Electric and Magnetic Fields, 3. Nuclear Physics, 4. Energy and Climate, 5. Quantum Mechanics, 6. Additional topics in the IB Curriculum. Many colleges are now offering college credit for students who score well on the IB Physics SL exam.

SC 430 - AP/IB CHEMISTRY HL 1
SC 431 - IB CHEMISTRY HL 2

Two-year course in physical science

1.5 unit of credit year one, 1.0 credit year two

Prerequisite: Regents Chemistry Requires exam fee

This course covers the first two semesters of college chemistry. Some of the areas covered are atomic structure, bonding, stoichiometry, thermochemistry and spontaneity, solutions, acids and bases, kinetics, equilibrium and electrochemistry. A satisfactory score on the national exam will enable the student to receive six to eight college credits at most of the major colleges and universities. The second year will focus on the additional topis in IB curriculum such as introductory organic and analytical chemistry. The AP exam is taken after year 1 and the IB exam is taken after year 2.

SC 450 - IB BIOLOGY HL 1
SC 451 - IB BIOLOGY HL 2/ AP Biology

Two-year course in life science

1.0 unit of credit per year

Prerequisites: Biology and Chemistry Requires exam fee

IB Biology HL is a two-year course that provides coursework and laboratory experiences that will prepare them for the Higher Level IB Biology exam the end of year two. The first-year curriculum includes an in-depth study of biochemical and cellular processes of life; photosynthesis and cellular respiration. Molecular genetics and genetic engineering will be covered as well as topics in heredity. The second year will focus on structure and function of plants and animals, human physiology, evolution of plants and animals and ecology. IB Biology HL provides the scientifically minded student an advanced Biology course that teaches not only breadth but depth of biological study. This course requires sitting for the IB exam in May. Students should have earned an 85% or higher on the Living Environment exam.

PE 512 IB SPORTS EXERCISE AND HEALTH SCIENCE SL

Full year course 1.0 unit of Science credit

.5 Physical Education credit

Prerequisite: Anatomy & Physiology and Physics Requires exam fee

Recommended Course to take prior: Psychology and Statistics

Offered at the standard level, IB Sports Exercise and Health Science (SEHS) incorporates the disciplines of anatomy and physiology, biomechanics, psychology and nutrition, which are studied in the context of sport, exercise and health.

The course will guide students through the study of human performance by examining 3 specific content core areas of focus. 2025-2026 IB Syllabus revised content includes:

1- Exercise physiology and nutrition of the human body - Communication, hydration and nutrition, response

2 – Biomechanics - Generating movement in the body, forces, motion and movement and Injury

3 – Sports psychology and motor learning – Individual differences, motor learning, motivation, stress and coping, psychological skills

Students will learn how to coach, personal train and develop mastery of excel spreadsheet functions to analyze human performance data. Each student will conduct an internal assessment of a human performance investigation using the scientific method. Students will be evaluated both locally and by a IB moderator. The external assessment will be conducted in April or May and is a cumulative exam encompassing coursework from classes in anatomy & physiology, physics and IB Sports Exercise and Health Science.

SCIENCE ELECTIVES

SC 500- TOPICS IN SCIENCE A
Full year course every other day in life science; .5 unit of credit
Open to students in grades 11 - 12 *1.0 credit can be earned by taking both sections, if more than one section is offered
Prerequisites: Successful completion of the Living Environment and Studies in Earth Science or Regents Earth Science
This is one of the FFA courses Red Hook has to offer. Topics will focus on horticulture, garden design, and ornithology.

SC 501- TOPICS IN SCIENCE B
Half year course in life or physical science; .5 unit of credit
Open to students in grades 11 - 12 *1.0 credit can be earned by taking both sections, if more than one section is offered
Prerequisites: Successful completion of the Living Environment and Studies in Earth Science or Regents Earth Science
This course will explore different topics in science chosen by the instructor. Designed for students that need to complete a third year of science, preference will be given to students in need of credits for graduation.

SC 510 - FOOD SCIENCE
Full year course in physical science 1.0 unit of credit
Open to students in grades 11 - 12
This course offers students the chance to reinforce and enhance knowledge of scientific principles and processes through the study of foods and nutrition. Students are offered the chance to understand the science behind nutrition, an opportunity to understand the food industry and a look into the science behind preparing food in their daily lives. This course fulfills the third science requirement for students and counts as a local credit. The course involves hands on laboratory experiments and offers students a chance to study science outside the laboratory and inside the kitchen.

This course will cover all of the topics suggested by the NYS Department of Education. These topics include, but are not limited to:

- Food Science and Its Relevance to Global Society
- Research Practices in Food Science
- Concepts of Physical Sciences Relevant to Food Science
- Concepts of Life Science Relevant to Food Science
- Water, Carbohydrates, Lipids, Proteins, Vitamins and Minerals
- Introduction to Microorganisms
- Food Preservation
- Food Safety
- Technological Advances in Food Science
- Food Industry Careers

SC 505 - ASTRONOMY
Half year course in physical science; .5 unit of credit
Open to students in grades 11-12
Prerequisites: Successful completion of Earth Science and Biology
This course covers topics in modern astronomy and astrobiology, including the solar system, stars, black holes, Big Bang theory, exoplanets, the search for life in the universe, and space exploration. Students will also be expected to spend some time observing the night sky.
Offered in 2026-2027 school year

SC 506 - FORENSIC SCIENCE
Full year course in physical science 1.0 unit of credit
Open to students in grades 11-12
Prerequisites: Successful completion of the Earth Science and Biology
In this hands-on, project-based Forensic Science course, students will explore the scientific principles and techniques used to solve crimes, covering topics such as DNA analysis, fingerprinting, ballistics, toxicology, digital forensics, and crime science investigation. Emphasizing the scientific method, data analysis, and critical thinking, this course also includes reading about real criminal cases, viewing dramatizations, and listening to true-crime podcasts to enhance understanding of forensic applications in the field. Students will develop skills in laboratory techniques and evidence observation, building a foundation in scientific inquiry applied to real-world investigations.

SC 507 - ANATOMY AND PHYSIOLOGY
Full year course in life science
Open to students in grades 11 - 12 1.0 unit of credit
Prerequisite: Successful completion of Earth Science and Biology
**Teacher recommendation required
Anatomy and Physiology is a college-preparatory course designed to deepen students' understanding of the intricate relationships between the structures and functions of the human body. Focusing on key body systems- including integumentary, skeletal, muscular, nervous, cardiovascular, lymphatic, respiratory, digestive, urinary, endocrine, and reproductive—the curriculum emphasizes the concept of homeostasis and how each system works together to maintain it. Through inquiry-base activities and a range of laboratory investigations, students will engage in dissections, microscopic study, computer simulations, multimedia presentations, and cooperative leaning experiences. This course is ideal for students interested in biology or health-related fields, providing a comprehensive foundation for further study and careers in these areas.

SC 508 – METEOROLOGY
Full year course in physical science .5 unit of credit
Open to students in grades 11 – 12
Prerequisite: Successful completion of Earth Science (or equivalent)
This course offers students the opportunity to explore the science of meteorology using observations, predictions, interpolations and analysis of information. Using real-time data from our very own Mesonet Data site as well as other reliable resources, students will study the relationships between the variables that shape our atmosphere and our climate. Topics include: forecasting, forensic meteorology, broadcasting, film analysis, radar, severe weather, climate change and oceanography.
Offered in 2026-2027 school year

SC 606– ENVIRONMENTAL SCIENCE
Full year course in life science or physical science dependent on instructor 1.0 unit of credit
Open to students in grades 10-12
Environmental Science is an interdisciplinary course. Topics covered include: scientific method, historical perspectives on the environment, ecosystems, biodiversity, evolution, climate, environmental concerns, human population and paths to sustainability.
Not always offered.

Please note: Science electives are offered based on student interest and teacher availability in each year.

SOCIAL STUDIES

The Social Studies program is designed to provide the knowledge and understandings which are essential for the sound participation in the democratic way of life. It provides many types of experiences which lead to growth in knowledge, understanding and effective individual and group living. It leads to the acquisition of skills needed to carry out civic responsibilities.

Four Units of Credit will be required in Social Studies in order to receive a Regents or advanced Regents diploma. Instruction is offered on both a Regents level and an advanced level. The same basic material is covered. The difference between the two courses lies in the depth of development.

SS 110 - GLOBAL STUDIES 9
SS 120 - GLOBAL STUDIES 9R
SS 130 - GLOBAL STUDIES 9H
SS 210 - GLOBAL STUDIES 10
SS 220 - GLOBAL STUDIES 10R
SS 230 - GLOBAL STUDIES 10H

Full year courses 1.0 unit of credit

This a two-year course in global studies designed to develop perspectives on the Middle East, Africa, South Asia (including India and Pakistan) and East Asia (including China and Japan), all of Europe and Latin America. Interactions and linkages among nations and people will be explored within specific time periods to ascertain how the past influences the present. The perspectives of history and the social sciences will be treated in each of the areas studied in grades 9 and 10. Specific themes will be highlighted within a geographic and cultural context, and will be covered chronologically from the Neolithic Revolution to the 1700s in grade 9 and from the 1700s until the present in grade 10.

Examples of such themes include:

- cultural and technological dynamics that foster societal change i.e., the influence of nationalism and other political ideologies.
- issues of interdependence that have led to cooperation or confrontation through history.
- struggles for human rights as examples of human needs and universal aspirations - particular emphasis will be placed on Western and American experience in the evolution of civil liberties.
- effects on national conduct and international events of diverse value systems and ideologies.

SS 240 - ADVANCED PLACEMENT EUROPEAN HISTORY

Full year course 1.0 unit of credit

Requires exam fee

A comprehensive study of European history from 1450 to the present, this course will emphasize development of an understanding of principal themes of the era, the ability to analyze historical evidence, and the ability to write analytically.

The course is sponsored with the cooperation of the College Board - a nonprofit organization of more than 2500 colleges, universities and school systems. Students are required to pay a testing fee and sit for an Educational Testing Services examination in May. The exact number of college credits thus obtained depends on the student's test grade and college of choice. Up to six credits may be granted.

UNITED STATES HISTORY & GOVERNMENT

SS 320 - U.S. HISTORY 11

Full year course 1.0 unit of credit

This course covers the history of the United States. It will include a chronological survey of U.S. History in general, but the emphasis in this course will be on the United States as a developing industrial and post-industrial nation. Constitution and legal issues will be explored in depth, as will be the problems of a dynamic industrial society in an increasingly complex and technology-oriented world. As should be true in any good learning situation, previous historical knowledge will be called upon for background, comparison and contrast purposes in all topics.

SS 340 – AP UNITED STATES HISTORY (IB History of the Americas HL I)

Full year course 1.0 unit of credit

Requires exam fee

A yearlong college-level course covering the full scope of American history: political, economic, social, cultural, and artistic. The course is sponsored with the cooperation of the College Board - a nonprofit organization of more than 2500 colleges, universities, and school systems. Students are required to pay a testing fee and sit for an Educational Testing Services examination in May. The exact number of college credits thus obtained depends on the student's test grade and college of choice. Up to six college credits may be granted. This course will also serve as the first year of the two-year course in IB Higher Level History of the Americas. The course will culminate with the Twentieth Century World Topics, and IB examinations to be administered in the senior year.

The course is open to eleventh grade students who must also prepare themselves for the differently structured N.Y. State Regent's Examination in American History & Government to be given in June.

SS 450 - TWENTIETH CENTURY WORLD TOPICS (IB History of the Americas HL 2)

Full year course 1.0 unit of credit

Open to seniors Requires exam fee

Prerequisite: Successful completion of AP U.S. History (IB History HL I)

The second half of the IB Program in History, this college level course will involve the detailed study of one Prescribed Subject (The Move to Global War), as well as three 20th Century World History Topics (Causes, practices and effects of war, Origins and Development of Authoritarian and Single Party States, and the Cold War).

This course requires sitting for an examination in May and paying the requisite fee associated with the exam.

SOCIAL STUDIES

SOCIAL STUDIES - REQUIRED HALF YEAR (SEMESTER) COURSES
(All students must earn .5 credit of Economics and .5 credit of Government)
Prerequisite: Successful completion of Global Studies. Present enrollment in or successful completion of U.S. History and Government (Social Studies 11)

SS 410 - ECONOMICS
This course will include the basic economic concepts and understandings which all persons will need to function effectively and intelligently as citizens and participants in the economy of the United States and of the world.

Some of the major concepts, which will be dealt with, are scarcity, productivity, opportunity cost, supply and demand, inflation, profit, interdependence, capital, competition and the market. The course will not be one in consumer education, but will emphasize a rational decision-making process, which should be applied to all economic decisions. The major focus will be on the economy of the United States, but other economic systems will be treated.

The course may include topics that examine the basic principles of economics, the elements of an economic system (micro-economics), the overall operation of an economic system (macroeconomics), and the world economy and international trade.

A strong emphasis will be placed on Personal Finance. Students will learn the importance of planning, money management, banking, credit, saving and much more. This course will also stress the use of the stock market, mutual funds, IRAs, and other methods of saving money. This will give students an introduction to the process of making and saving money, as well as helping them to make intelligent decisions by doing the proper research.

SS 421 - PARTICIPATION IN GOVERNMENT -
Legal Studies
In a half year, we will explore the criminal justice system of the US, in particular the Penal Law of NYS. We begin with arrest then moving to the arraignment process, trial, sentencing, and corrections. The rights of the accused will be examined through Amendments 4-8. There will be "mock trials" where students will prepare and present defense and prosecution positions either as an attorney or witness.

Mandatory introductory and culminating experiences will be visits to various Jails, Prisons, and Police simulations. Topics covered besides criminal law will be Constitutional and International law. We will also have a variety of guest speakers who have expertise in the criminal justice system. There is time to explore other aspects of law as determined by student interest; for example, family or environmental law.

SS 422 - PARTICIPATION IN GOVERNMENT
Military Conflicts in U.S. Policy
Military conflict is one option in a nation's policy formation. This course will focus on the development of policies that have led to military conflict, the resources necessary to fight, the people who play significant roles both politically and militarily, decisive battles, and the results of some of the important conflicts in U.S. history. This course may focus on one of a variety of military conflicts which the US has found itself involved in from the American Revolution to the War on Terror.

SS 423 - PARTICIPATION IN GOVERNMENT -
Your Lifetime
This course is designed to introduce students to the people, events and headlines that have and will influence their world view. Together we will explore and learn through discussion, the viewing of related media, projects and presentations, group work and class lecture. Emphasis will be placed on discovering connections between historical events and your daily life.

SS 424 - PARTICIPATION IN GOVERNMENT -
Genocide Studies
For a half-year, we will explore the concepts of Genocide, Human Rights, and Legal Rights. The Holocaust holds a distinctive place in Genocide Studies and the class as a whole will examine the Nazi Genocide of the 1930's and 40's. Also, each individual will choose and become an "expert" in one other genocidal event. This course will look at how world action/or inaction effects the outcome of genocidal events. Further, we will examine how psychology and biology effects both personal and public choices concerning genocide. The selections and interests of students will determine which cases of genocide and human rights violations throughout the centuries we explore in depth.

SS 425 - PARTICIPATION IN GOVERNMENT -
Women's Studies
This course will immerse students in the study of government and American politics through the eyes of women. Students will trace the existence if women in society from the American Revolution to the present, while examining both primary texts and contemporary scholarly work. The class will not simply explore women's participation within the spheres of government, but also investigate how women were excluded and what actions were taken to resolve this prejudice. Students will have the privilege of attending local lectures and visiting national historic sites. Each student will examine relevant historical information from various time periods while gaining new perspectives on women's long-lasting impacts. They will demonstrate their understanding of the material through the completion of a cumulative group project.
Effective 2025-2026 School Year students may have an opportunity to earn Dutchess Community College Credits. Student is responsible for fees from Dutchess Community College.

SS 503 - PARTICIPATION IN GOVERNMENT - SOCIOLOGY
This course is designed to help students: - develop an interest in their social world that will extend beyond this course - develop the ability to be more objective in the study of social situations - understand the basic principles and concepts of sociology as a discipline of study - get a chance to carry out types of social research so that he can become actively involved with the course study - develop a better understanding of the sociologist as a researcher. Outside readings and class discussions serve as a significant part of the course.

SOCIAL STUDIES

SS 501 - PARTICIPATION IN GOVERNMENT / SOCIAL PROBLEMS

Open to seniors only .5 unit of credit

This course is an examination of current social problems that confront the individual, the United States and the international communities. Concepts of the behavioral sciences are introduced. The course presents a broad range of social problems, with particular focus on the complex relationships between contemporary issues. Students are presented the current research data that explains both the causes and possible resolutions to important social issues. With successful completion of all requirements students will receive three transferable credits from Dutchess Community College.

As this is a college level course, students will have to complete an enrollment process for Dutchess Community College.

SS 506 – PARTICIPATION IN GOVERNMENT- BUSINESS LAW

Open to all students in grades 11 - 12 .5 unit of credit

This one semester course provides students with an understanding of the legal framework of our society. The topics covered include the history, development, and classification of laws, personal and business law related to everyday life, contract law, the court system and courtroom procedures, legal terminology, constitutional rights, ethics, technology law, intellectual property, social responsibility, international law and consumer protection.

SS 100 - THEORY OF KNOWLEDGE

.5 unit credit (each year) 1.0 credit upon completion of course

Prerequisite: Must be IB Diploma candidate

The Theory of Knowledge (TOK) course plays a special role in the IB Diploma Program by providing an opportunity for students to reflect on the nature, scope and limitations of knowledge and the process of knowing. In this way, the main focus of TOK is not on students acquiring new knowledge but on helping students to reflect on, and put into perspective, what they already know. TOK underpins and helps to unite the subjects that students encounter in the rest of their IB Diploma Program studies. It engages students in explicit reflection on how knowledge is arrived at in different disciplines and areas of knowledge, on what these areas have in common and the differences between them. There are two assessments in TOK: the TOK Exhibition (year 1) and the TOK Essay on Prescribed Title (year 2).

Requires registration fee with IB.

SOCIAL STUDIES ELECTIVES

SS 280 – CIVICS AND CITIZENSHIP

Open to students in grades 9 - 10 .5 unit of credit

What does it mean to be a citizen on the United States in today's work? Has the definition of a citizen changed? Is a high level of active citizenship of the people necessary for the country's success? Students enrolled in this course will return to some of the basics of what it truly means to be an active citizen of their country. Students will engage with current events, meet local political figures and work on a class citizenship project for our school and/ or community. Upon completion of the course, students will have a clear understanding of the court process, law system and their responsibility as young voters entering their lives.

SS 423 - PARTICIPATION IN GOVERNMENT - Your Lifetime

Open to all students in grades 9 - 12 .5 unit of credit

Grades 11-12 may use towards a Participation in Government credit.

This course is designed to introduce students to the people, events and headlines that have and will influence their world view. Together we will explore and learn through discussion, the viewing of related media, projects and presentations, group work and class lecture. Emphasis will be placed on discovering connections between historical events and your daily life.

SS 455 - IB PSYCHOLOGY SL

Full year course 1.0 unit of credit

Open to juniors and seniors Requires exam fee

Prerequisite: Psychology

Offered at the standard level, IB Psychology offers students a broad understanding of psychology and of its different theoretical approaches. The course guides students through the study of human behavior by examining key topics from four levels of analysis: the biological, the sociocultural, the cognitive, and the dysfunctional. Students will study research design, methods, statistics, ethical issues in psychological research and application. This course requires sitting for the IB exam in May.

SS 500 - ARCHEOLOGY/ANTHROPOLOGY

Open to all students in grades 10 - 12 .5 unit of credit

During our half year study, we will utilize archeological, cultural, biological, and linguistic methods to study peoples and cultures. A large part of one quarter will be devoted to the excavation and analysis of a multi-use site. The other quarter will involve a student initiated ethnographic observation and examining a student chosen anthropological question.

SS 502 - PSYCHOLOGY

Open to students in grades 10 - 12 .5 unit of credit

This course is designed to introduce students to the basic principles and applications of psychology. Together we will explore and learn through discussion, research, observations, experiments, projects and presentations, group work and class lecture. Emphasis will be placed on discovering the practical, everyday applications of psychology.

Effective 2024-2025 School Year students may have an opportunity to earn Dutchess Community College Credits. Student is responsible for fees from Dutchess Community College.

SS 504 - COMPARATIVE RELIGIONS- Beliefs of the World

Open to all students in grades 9 - 12 .5 unit of credit

This course attempts to investigate the world's major religions and philosophies in historical perspective. It is a study of the world's major religions and philosophical movements: Hinduism, Confucianism, Judaism, Christianity and Islam. The course will explore the depth and richness of religious and philosophical concepts, forms of worship, and types of organizations found in some of the major traditions of the world.

ENGLISH
EN 103 - (F) A Hero's Journey *
EN 104 - (F) Creative Writing *
EN 106 - (F) Folktales, Fairytales, Legends*
EN 107 - (F) Graphic Novel *
EN 108 - (F) Sports Literature *
EN 109 - (F) Unreliable Narrator *
EN 110 - (F) Introduction to Theatre*
EN 115 - (F) Journalism & Media Production
EN 201 - (F) Conflicts in Nature *
EN 203 - (F) Dystopian Fiction *
EN 208 - (F) Literacy in Film
EN 206 - (F) Tech. Theatre and Stage Management
EN 207 - (F) Conflicts in Nature & Society
EN 209- (F) Theatre II
EN 240 - (F) AP English Language & Composition *
EN 350 - (F) IB English Language A: Lit HL1*
EN 380- (F) IB Theatre I
EN 440 - (F) AP English Literature *
EN 450 - (F) IB English Language A: Lit HL-2*
EN 460 - (F) Film - IB SL-2
EN 480 – (F) IB Theatre II SL
EN 490 – (F) IB Theatre II HL

SOCIAL STUDIES
SS 100 - (S) Theory of Knowledge *
SS 110 - (F) Global Studies 9 *
SS 120 - (F) Global Studies 9R *
SS 130 - (F) Global Studies 9H *
SS 210 - (F) Global Studies 10 *
SS 220 - (F) Global Studies 10R *
SS 230 - (F) Global Studies 10H *
SS 240 - (F) AP European History *
SS 280- (S) Civics and Citizenship
SS 320 - (F) U.S. History & Geography 11R *
SS 340 - (F) U.S. History AP/IB - HL-1 *
SS 410 - (S) Economics *
SS 421 - (S) Part. in Govt. - Legal Studies *
SS 422 - (S) Part. in Govt. - Military Conflicts *
SS 423 - (S) Part. In Govt. - Your Lifetime *
SS 424 - (S) Part. in Govt. - Genocide Studies*
SS 425 - (S) Part. In Govt. - Women's Studies *
SS 450 - (F) 20th Century World Topics - IB HL-2 *
SS 455 - (F) IB Psychology SL *
SS 500 - (S) Archeology/Anthropology *
SS 501 - (S) Part. In Govt. - Social Problems *
SS 502 - (S) Psychology *
SS 503 - (S) Part. In Govt. - Sociology *
SS 504 - (S) Comparative Religions *
SS 506 - (S) Part. In Govt. - Law

MATHEMATICS
MA 120 - (F) Algebra I *
MA 130 - (F) Algebra 1A *
MA 140 - (F) Algebra 1B *
MA 190- Discovery Computer Science
MA 220 - (F) Geometry and Proof*
MA 230 - (F) Geometry *
MA 311 - (F) Applied Mathematics
MA 320 - (F) Algebra 2 *
MA 330 - (F) Algebra 2A
MA 340 - (F) Algebra 2B
MA 455 - (F) IB Math: App & Interpretations*
MA 465 - (F) IB Math: Analysis & Approaches*
MA 510 - (F) Statistics *
MA 560 – (F) IB Math Analysis 2/ AP Calc
MA 530 - (F) Pre-Calculus *
MA 560 - (F) IB Math Analysis 2/ AP Calc
MA 612 – (F) AP Computer Science Principles *
MA 613 – (F) AP Computer Science A *

SCIENCE
SC 110 - (F) Earth Studies *
SC 120 - (F) Earth Science - Regents *
SC 130 - (F) Earth Science – Honors*
SC 220 - (F) Biology - Regents *
SC 320 - (F) Chemistry - Regents *
SC 330 - (F) Chemistry - Honors *
SC 420 - (F) Physics - Regents *
SC 460 - (F) IB Physics SL -1*
SC 461 - (F) IB Physics SL -2 *
SC 430 - (F) Chemistry AP/IB HL-1 *
SC 431 - (F) Chemistry - IB HL-2 *
SC 450 - (F) Biology - IB HL-1 *
SC 451 - (F) Biology – IB/AP HL-2 *
SC 500 - (F) Topics in Science - A *
SC 501 - (S) Topics in Science - B *
SC 505 - (S) Astronomy *
SC 506 - (F) Forensic Science *
SC 507 - (F) Anatomy and Physiology *
SC 510 - (F) Food Science
SC511 –(F) Principles of Engineering (PLTW) *
SC 520 - (S) Meteorology *
SC 606- (F) Environmental Science*

HEALTH
HE 500 - (S) Health

WORLD LANGUAGES
FF 210 - (F) French II*
FF 310 - (F) French III*
FF 410 - (F) French IV *
FF 510 - (F) French V *
FF 420 - (F) IB French SL-1
FF 520 - (F) IB French SL-2 ____ 521 HL
FG 410 - (F) German IV *
FG 510 - (F) German V *
FG 420 - (F) IB German SL-1
FG 520 - (F) IB German SL-2 ____ 521 HL
FS 110 - (F) Spanish I *
FS 210 - (F) Spanish II ____ 210 H *
FS 310 - (F) Spanish III ____ 310 H *
FS 410 - (F) Spanish IV *
FS 510 - (F) Spanish V *
FS 420 - (F) IB Spanish SL-1
FS 520 - (F) IB Spanish SL-2 ____ 521 HL

ART
AR 110 - (F) Studio In Art One
AR 200 - (S) Studio Art 2 A/B
AR 210 - (F) Graphic Design Studio
AR 310 - (F) Advanced Art Portfolio
AR 330 - (S) Design and Sculpture Studio A/B
AR 350 - (F) IB Art 1
AR 360 - (F) Film - IB SL-1
AR 410 - (S) Ceramics Studio A/B
AR 420 - (F) Digital Photography
AR 430 – (F) Animation and Video Production
AR 450 - (F) IB Art 2
AR 460 - (F) Film - IB SL-2

BUSINESS
BU 105 – (S) Financial Literacy
BU 130 – (S) Intro to Business
BU 140- (S) Intro to Marketing & Advertising
BU 510- (S) Entrepreneurship

INTERDISCIPLINARY STUDIES
EN 115 - (F) Journalism & Media Production
HU 155 – (F) Art and Storytelling
HU 160 –(S) Word to Table
HU 170 – (S) Freshman Focus

MUSIC
MU 105 - (F) Introduction to Musical Theatre
MU 106 – (F) Intermediate Musical Theatre Perf
MU 110 - (F) Symphonic Band
MU 120 - (F) Concert Choir
MU 350 - (F) Music Theory
MU 450 - (F) AP Music Theory

FAMILY AND CONSUMER SCIENCE
FC 110 - (S) Baking I
FC 111 - (S) Baking II
FC 165 – (S) The Breakfast Club
FC 210 - (S) Foreign Foods
FC 225 - (S) Route 66
FC 230 - (S) Child Development I
FC 231 - (S) Child Development II
SC 510 - (F) Food Science

TECHNOLOGY (STEM/PLTW)
TE 130 - (F) Intro to Eng. Design – CAD(PLTW)
TE 150 - (F) Design & Drawing for Production
TE 160 - (S) Computer Assisted Drafting
TE 170A-(S) Materials Processing: Wood
TE 170B-(S) Materials Processing: Metal
TE 190 – (F) Civil Engineering and Arch (PLTW)
TE 210 – (S) Drone Technology
TE 215 – (S) Computer Integrated Manufacturing
TE 230 - (S) Design & Manufacturing
TE 250 – (S) Power Mechanics
TE 270A- (S) Advanced Wood
TE 270B- (S) Advanced Metal
TE 320 - (S) Residential Construction
TE 340 - (S) Automotive Technology
TE 440- (S) Advanced Automotive Technology
SC511 –(F) Principles of Engineering (PLTW)

PE ELECTIVE
PE201 – (F)Mind Body Wellness
PE512 - IB Sports Science *

SPECIAL & SUPPORT
SU 100 - (S) Writing Support
SU 105 - (S) Literacy Tutorial
MA125 – (S) Algebra Support
MA155 - (S) Math Support
SU 120 - (S) Social Studies Support
SU 130 - (S) Science Support
RR ## - (F) Resource Room
SU 460 - (F) Academic Support SC

OCCUPATIONAL EDUCATION
DUTCHESS BOCES CTI
CTI AM - (F) Occ. Ed. (A.M.) _____
CTI PM - (F) Occ. Ed. (P.M.) _____

OTHER
ER 100 - (S) Work Release
LE100 - (S) Late Entry
January Graduate
Early Graduate
*NCAA Approved Course