

**ORCHARD PARK HIGH SCHOOL
ORCHARD PARK, NEW YORK 14127**

**CURRICULUM HANDBOOK
2024- 2025**

To Students and Parents:

Orchard Park High School is dedicated to effective teaching and successful learning for all students. We believe our curriculum encourages creativity, individuality, problem solving, and the confidence that enables people to think, speak, and work together.

As you look toward a new school year filled with exciting challenges and opportunities, it is important to take advantage of the wide array of courses listed in this handbook. The high school years are a time to explore, learn and grow. In developing your plan for this journey, the following people can be very helpful:

HOUSE I	Mr. Hafner	-	House Principal
	Mr. Behm	-	Counselor
	Mrs. Stahl	-	Counselor
HOUSE II	Mr. Lynch	-	House Principal
	Dr. Cervoni	-	Counselor
	Mr. Bove	-	Counselor
HOUSE III	Mr. Reiford	-	House Principal
	Mrs. Burlingame	-	Counselor
	Mrs. See	-	Counselor

May you have a very successful 2024 - 2025 school year.

Sincerely,



Brandon Pafk
Principal
Orchard Park High School

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COURSE OFFERING KEY

Course

1. Where possible, courses are described by the state title.
2. The Roman Numerals I and II are used to designate courses with sequential subject content.

Credits

$\frac{1}{4}$ - one-quarter unit credit granted upon successful completion

$\frac{1}{2}$ - one-half unit credit granted upon successful completion

1 - one unit credit granted upon successful completion

H - carries honor weighting [this designation is used in conjunction with the regular credit: example: $\frac{1}{2}$ (H)]. **Honor weighting equals**

1.05 or an additional 5%.

N/C - No Credit

Grade Level

This numerical designation shows the grade(s) to which the course is open (example: 9, 10)

Meetings Per Week

- The number of class meetings per week
 - 2/3 periods - normal for $\frac{1}{2}$ credit courses on alternating days (2 days one week, 3 next)
 - 5 periods - normal for $\frac{1}{2}$ credit courses and 1 credit courses
 - 10 periods - normal for 1 credit courses that meet a double period daily

Reading/Math Level

- This is normally associated with ability level
 - V - heterogeneous grouping (all reading levels)
 - L - low ability
 - M - medium (average) ability
 - H - high ability
 - AP - advanced placement ability

Exam

- Type of final exam given in the course
 - R - Regents Exam
 - S - State Examination
 - L - Local Exam
 - AP - Advanced Placement Exam
 - P - Proficiency Exam

Prerequisites/Corequisites

- Requirements for entrance into the course

ORCHARD PARK HIGH SCHOOL: A HOUSE PLAN HIGH SCHOOL

Orchard Park High School is organized into three smaller units called “houses.” Each house is comprised of students in grades 9 through 12 randomly selected. Students within each house are assigned to a core of homerooms based on their cohort. Each homeroom is assigned to one of two school counselors located in the house office.

Homerooms are scheduled to remain intact through the student's high school career and to be affiliated with the same house principal, school counselor, homeroom teacher, and house secretaries.

Another vital aspect of the house organization at Orchard Park is the assignment of subject areas and faculty to houses. House I contains the following departments: art, business, health, music, physical education, and special education. House II consists of earth science, math, media, and social studies. English, biology, chemistry, languages, technology education, and physics are found in House III.

The goal of the assignment of subject areas to different houses is to provide for the most efficient utilization of facilities including materials, planning areas, and for the adoption of various teaching strategies. In addition, the house principal provides the leadership for communication of departmental concerns such as budget, scheduling, and curriculum planning.

In a large school such as Orchard Park High School, student and faculty identification is easier to achieve with an organizational scheme such as the house plan. Our house plan high school truly provides the program advantages of a large school, yet maintains the closeness of a smaller school.

GRADE REPORTING

Report Cards

Student grades will be issued following the 10th, 20th, 30th, and 40th weeks of school. These reports will be available on the parent portal. Report cards are a summary of achievements. Subject achievement is denoted by a numerical grade with 65 being the minimum passing grade.

Individualized teacher comments may be denoted on the report card. Parents are invited to confer with the school personnel at any time.

Interim Reports

Interim reports will be available through the parent portal following the 5th, 15th, 25th, and 35th weeks of school. If a student is underachieving or in danger of failing a course, parents should expect timely communication from the teacher either through an interim report or other means such as a telephone call or message conveyed through the student. These reports may help to make the parents aware of a problem or a potential problem or may serve to report exceptional progress. Students should discuss progress reports with parents, school counselors, and teachers.

Honor Roll and Merit Roll

Students must meet the following requirements in order to be on the High School honor roll or merit roll:

Honor Roll - 90% or higher cumulative average in all subject studies (Exception: labs).

Merit Roll - 85% or higher cumulative average in all subject studies (Exception: labs).

Four or more numerically graded courses are required for honor roll or merit roll consideration.

Honor roll and merit roll lists are published after the 10th, 20th, and 30th weeks. No honor roll and merit roll lists are published for the 40th (final) week report

Course Grade Calculations

- Full-year courses that culminate with a **local final assessment** will be calculated with each quarter valued at 20% and the local final assessment at 20%.
- Full-year courses that culminate in a **Regents Examination** will be calculated with each quarter valued at 25% and the NYS Regents Examination has no factor in the final grade.
- Half-year courses will be calculated with each quarter valued at 40% and the local final assessment at 20%.

Orchard Park High School Graduation Requirements

Required Courses	Regents Diploma	Advanced Regents Diploma
English	4 units, one Regents exam	4 units, one Regents exam
Social Studies	4 units, two Regents exams	4 units, two Regents exams
Mathematics	3 units, one Regents exam	3 units, three Regents exams
Science	3 units, one Regents exam	3 units, two Regents exams
Second language	1 unit	3 units, one Local/Regional exam <u>or</u> 1 unit of World Language and an Alternative Sequence (5 units in Art, Music, Business, Technology Education or Career and Technical Education)
Health	$\frac{1}{2}$ unit	$\frac{1}{2}$ unit
Art/Music (see Note #1)	1 unit	1 unit
Computer Science or Personal Finance	$\frac{1}{2}$ unit	$\frac{1}{2}$ unit
Physical Education	2 units	2 units
Additional Electives	3 units	1 unit
Total	22 units	22 units

To qualify for a Regents Diploma, students must pass required Regents Exams in English Language Arts, Mathematics, Global Studies, US History, and Science.

To qualify for an Advanced Regents Diploma, students must pass additional Regents exams in Mathematics and Science. Students must also pass a local/regional exam in a language other than English. An Alternative Sequence consisting of five units in Art, Music, Business, Technology Education or Career and Technical Education may be substituted for a sequence in a World Language. A local diploma is available to certain special education students based on their Individualized Educational Plan. See a school counselor for specific details.

Note #1

Technical Drawing, Drawing & Design for Production, Entrepreneurship in Graphic Communications, and Communication Systems may be taken as part of the minimum Art/Music graduation requirement.

The required Art/Music unit would count towards the necessary five units for the Alternative Sequence.

Note #2

Students who enter OPHS in September 2021 or later are required to earn .5 credit by taking Personal Finance and will no longer be required to earn .5 computer credit. Students who entered high school in September 2020, or a year prior, are required to earn .5 credit by taking Personal Finance OR .5 credit by taking one of the following electives designated as a computer science course: Computer Aided Drawing, Computer Applications, Entrepreneurship in Graphic Communications, Entrepreneurship in Production Systems, Computer Programming 1, or iComp 1.

NCAA FRESHMAN ELIGIBILITY STANDARDS

Student athletes wishing to play sports in college at the Division I or II levels must register with the NCAA Eligibility Center at the end of their junior year. At that point, students should see their counselor to have a transcript sent to the NCAA. Information regarding NCAA eligibility can be found at www.eligibilitycenter.org. Contact the NCAA at (877) 262-1492.

Academic Standards

The NCAA Eligibility Center verifies the academic and amateur status of all student-athletes who wish to compete in Division I or II athletics. Please work with your prospective colleges and the NCAA Eligibility Center to make sure that all of the academic eligibility standards will be met.

College-bound student-athletes who want to practice, compete, and receive athletically related financial aid during their first year at a Division I or II school need to meet the following requirements:

- Graduate from high school.
- Complete a minimum of 16 core courses for Division I or 16 core courses for Division II.
- Earn a minimum required grade-point average in core courses.
- Earn a qualifying test score on either the ACT or SAT.
- Request final amateurism certification from the NCAA Eligibility Center.

Academic Requirements for Division I and Division II athletics are updated by the NCAA frequently. For the most up-to-date information and minimum academic standards, please visit www.eligibilitycenter.org.

- **When you register for the SAT or ACT, use the NCAA Eligibility Center code of 9999 to ensure all SAT and ACT scores are reported directly to the NCAA Eligibility Center from the testing agency. Test scores do not appear on transcripts.**
- The Division I core GPA requirement is a minimum of 2.30.
- The Division II core GPA requirement is a minimum of 2.20.
- Division III college and universities set their own admission standards. The NCAA does not set initial eligibility requirements in Division III.

RANK IN CLASS

The student with the highest average in each grade is ranked "one" for that grade. The student with the second highest average is ranked "two," etc. A student's average is calculated by using all courses taken in high school. Courses with letter grades (i.e. Freshman Boost) are excluded from ranking consideration. Honors and Advanced Placement course grades receive 1.05 times the value of other courses in determining rank. A six semester rank (determined at the end of junior year) and a seven semester rank (determined midway through the senior year) are calculated.

To be officially ranked, students need to complete 3 consecutive semesters of study at OPHS prior to the 7th semester ranking. Students will not be eligible for the Orchard Park High School senior honors which depend on rank in class (i.e. Valedictorian, Salutatorian, Top Ten, etc.) without this requirement. They will be assigned an "honorary rank" within the school. However, an "official" transcript rank will be assigned based on the student's total grades for purposes of colleges, post-high school training, military, etc.

Any exceptions to this procedure must be approved by the high school principal. Questions about rank should be discussed with your school counselor.

ALTERNATIVES TO REGENTS EXAMINATIONS:

Scores obtained on appropriate examinations of the College Board and the American College Testing Programs, as designated by the Commissioner, may be used in lieu of the corresponding Regents Examination requirements for a Regents or Advanced Regents Diploma. Please see your school counselor for further information.

COURSES

Local

Local courses are approved by the Orchard Park Board of Education. Following suggested New York State Department of Education guidelines, teachers design these courses locally. Students enrolled in these courses normally take a local examination.

State Courses

State courses are approved by the New York State Department of Education.

Regents

Regents level courses are approved by the State Board of Regents. Teachers follow the state syllabus. Students pursuing a Regents diploma must take specific Regents level courses and must pass Regents examinations as appropriate.

Advanced/Honors Courses

Advanced/Honors courses are approved by the Orchard Park Board of Education. These courses offer students a more rigorous curriculum.

Advanced Placement

Advanced Placement courses are approved by the College Board. Students enrolled in Advanced Placement courses have the option to take A.P. Examinations at their own expense. Financial assistance may be available. Many colleges grant credit for successful completion of the A.P. Examination. Please see your school counselor for further information.

College Credit Courses

The following courses may receive college credit:

Accounting Principles I, Algebraic Techniques and Statistical Modeling (ATSM), Personal Finance, Business Law, Calculus, College Statistics, College Success Skills, iComp II, Pre-Calculus, and Principles of Marketing. See the department chair of a specific subject area for further information.

Internships

The Career Exploration Internship Program (CEIP) offers high school students valuable career experience as they work directly in the profession of their choice. Please consult the Business/Marketing Education section of this handbook for more information on this course.

EXAMINATIONS

At Orchard Park High School, local final assessments are weighted as 20% of the final course average.

Local

Local examinations are given for courses that have been developed by Orchard Park High School teachers. Department examinations are local examinations that are designed by a team of teachers to test all students enrolled in a course.

Regents

Regents examinations are end-of-course examinations based on state courses of study. Beginning within the 2022-23 school year, Regents exams are not factored into the student's final course grade.

Regents Examination Retakes

Students are permitted to retake Regents exams in an effort to improve their exam score. Since Regents examinations must be ordered in advance, it will be necessary to see your school counselor to determine eligibility and register to retake a Regents examination. Any student who was absent for a Regents Examination due to illness or other special circumstances must follow the same procedure listed above for Regents retakes. Approval from the House Principal is necessary for any unusual situation that may arise.

All other situations involving the taking of Regents examinations are special and will require specific written approval from the high school principal. Special cases include: students with specialized talent, students from other high schools, a student who meets the time requirements but is not enrolled in an "R" course, etc. The general practice will be to determine the intent and capability of the student through discussion with the school counselor. Written approval may be given by the high school principal on an individual basis.

Advanced Placement

Advanced Placement examinations are given in courses following the outline of the College Board. Although these students are highly encouraged to take the exams, they are not mandatory. The examinations have been developed to test at the college level of performance. Students who do well on these examinations frequently get college credit for the subject being tested based on the academic credit policies of individual post-secondary institutions.

SPECIAL INFORMATION

Class Status

In order to achieve senior status, a student must have the potential to graduate no later than August immediately following the anticipated June graduation date. To qualify for participation in the graduation ceremony, students must have met all graduation requirements prior to the ceremony. Freshman status will be determined by the middle school principal's recommendation with the high school principal's approval. Exceptions may be made from these guidelines only in individual situations and only with the house principal's recommendation and the high school principal's approval.

Satisfactory/Unsatisfactory Grades

A satisfactory/unsatisfactory (S or U) grade may be given as follows: a student may request written permission from their teacher to take a course on a satisfactory/unsatisfactory basis. The credit will count toward graduation, but no grade other than "S" or "U" will be entered on the permanent grade record. The course will not affect rank in the class. A student may take two satisfactory/unsatisfactory courses per school year (1 credit total) provided each course is credited in the elective area toward graduation requirements. Each student must work out the requirements for obtaining a SATISFACTORY grade with their teacher. Permission forms are available from school counselors in each house office. The final dates for S/U approval are no later than 5 school days before the end of the first marking period for a first semester course; 5 school days before the end of the second marking period for a full year course; 5 school days before the end of the third marking period for a second semester course.

Repeating A Course

Teachers will determine if a student is to fail a course by giving a final grade below 65. The final grade given in June (or January for a one semester course) may not be changed except for highly unusual circumstances and then only by the high school principal. A student may be allowed to repeat a full year course while taking the next course in the same subject field by recommendation of his/her school counselor, after consulting with the previous year's teacher and the new teacher. Any exceptions or unusual circumstances must have the approval of the high school principal or his designee.

A student may complete a repeat course as early as mid-term upon recommendation of the current subject teacher and the school counselor, and provided the student passes an approved department exam or project. Completion at this point will be considered a privilege for the student who makes an effort to achieve success in the given course. See a school counselor

for the required paperwork. Normally a course will be repeated in its entirety. Refer to specific departmental guidelines. The current subject teacher will be required to notify the counselor and the registrar of any change necessary in a student's record as a result of passing a repeat course at any time other than June.

Summer School

Students permitted to attend summer school will have a portion of their June final grade incorporated into the computation of their summer school final average. Ten percent of the summer school final average will be based on the student's course average earned in June.

Required Minimum Schedule

EACH STUDENT MUST HAVE A MINIMUM OF FIVE (5) COURSES PLUS PHYSICAL EDUCATION EACH SEMESTER. ANY EXCEPTION TO THIS RULE MUST BE APPROVED BY THE HOUSE PRINCIPAL.

Schedule Changes

Student schedule changes are set up by counselors to take into account the future plans of the student, parental requests and teacher recommendations. Because schedules are developed to give the student the best program possible, changes of schedule are considered a serious matter. Under no circumstances may a student simply stop attending a class or study period. If a student, parents, the teachers and the school counselor agree that a schedule change is needed, a teacher, student, parent and school counselor signature on an official drop form for the change requested is necessary. Until the change is arranged and the student receives a copy of the new schedule from the school counselor, the student must attend classes on their original schedule. A level change requires written agreement among the teachers, student, parent, and school counselor. Any disagreement requires a conference of the parties involved and a final decision by the house principal.

Schedule Change Dates

Any student seeking a schedule change should see their counselor for a form as soon as possible. Signatures from students, parents, and teachers are required for all changes.

For half-credit (.5) courses, changes will begin on the fourth day of the first six-day cycle and end at the end of the sixth day of the first six-day cycle. Signed forms including student/parent/teacher signatures must be turned into students' House Offices by 2 p.m. on the sixth day of the first six-day cycle.

For full-credit (1.0) courses and *level changes*, changes will begin on the fourth day of the first six-day cycle and end at the end of the sixth day of the second six-day cycle. Signed forms including student/parent/teacher signatures must be turned in to students' House Offices by 2 p.m. on the sixth day of the second six-day cycle.

Students may not add a half-credit (.5) course after the first cycle of a semester. Students may not add a full-credit (1.0) course after the second cycle of a semester.

Any course changes after these designated dates require administrative approval.

Dropping A Course

A student may drop a course with no notation made on the permanent record up to the end of the first student day of the second quarter for a first semester course, the end of the first student day of the fourth quarter for a second semester course and the end of the first student day of the third quarter for a full year course. A course dropped after these dates will be designated as a Drop/Fail. A course may not be dropped unless a student maintains a five-course schedule in addition to Physical Education. Any exception to this procedure must be approved by the house principal.

Independent Study

Independent Study credit may be granted for approved courses of study in the curriculum. A student who uses Independent Study as one of the five courses plus P.E. for a required minimum schedule must be assigned daily to a supervised area. Credit will be granted if a contract is drawn up stipulating the work to be done and the time required. This contract will be cooperatively made by the student, subject teacher, and school counselor, and must have prior approval by the student's house principal and parent. Due to State mandates, health is no longer available for this option.

Incomplete Grade

It is anticipated that the teacher will change an incomplete grade to a numerical grade no later than the last day of the school year. Special circumstances must be resolved through the house principal.

Early Graduation

Graduation prior to completion of four years of high school study may be approved on an individual basis. A student considering early graduation should discuss individual high school needs and future plans with his/her parents and school counselor. A required form for early graduation is available

from the student's school counselor. This form calls for a rationale for requesting early graduation, the number of credits earned to date and the course names and credits needed for graduation. Upon initial submission of this form, the student can anticipate a meeting with his/her House Principal to discuss individual situations. This form must be signed by the student's parent(s), school counselor, house principal and finally by the high school principal. Forms should be completed during the spring of the junior year. The high school principal will review such requests by the end of scheduling week in the fall. **A student's schedule will not be changed to reflect early graduation status until final approval has been received from the high school principal.** Any exceptions to this procedure must be approved by the high school principal.

Cancellation of a Course or Program:

AN ELECTIVE COURSE MAY BE CANCELED DUE TO INSUFFICIENT STUDENT REQUESTS FOR ENROLLMENT. COURSES OF STUDY OR ENTIRE ELECTIVE PROGRAMS MAY ALSO BE CANCELED IF FISCAL CONDITIONS SO WARRANT AT ANY TIME AFTER THE PRINTING OF THIS BOOK.

II. DEPARTMENT AND COURSE INFORMATION

ART

Visual images saturate contemporary society and influence the way you think and feel. The art department will train you to see beyond the images that bombard your consciousness every day. In this way, you can nurture your imagination and creativity while you develop critical thinking skills that allow you to make sensitive and informed decisions about your life.

Developing your technical skills helps you control various media. Each course includes an exploration of aesthetics, history and criticism that illustrate and clarify what you are creating. Additionally, each course can demonstrate its relevance to careers in art.

The art department offers you a variety of opportunities to explore many ways of creating and studying art. In a number of areas, there are both introductory (level I) and advanced (level II and III) courses. You must develop and demonstrate the skills necessary for advancement into the level II and III courses.

For those of you who choose art as your life's path, the art department's comprehensive course of study will prepare you well for study after high school.

Art Course Offerings

Course Number	Course Title	Credits	Grade Levels	Meetings Per Week	Reading Level	Exams
0600	Studio in Art	½	9,10,11,12	5	V	L
0611	Studio in Drawing and Painting I	½	9,10,11,12	5	V	L
0612	Studio in Drawing and Painting II	½	9,10,11,12	5	V	L
0613	Studio in Ceramics I	½	9,10,11,12	5	V	L
0614	Studio in Ceramics II	½	9,10,11,12	5	V	L
0630	Studio in Ceramics III	½	10,11,12	5	V	L
0615	Studio in Sculpture I	½	9,10,11,12	5	V	L
0616	Studio in Sculpture II	½	9,10,11,12	5	V	L
0617	Studio in Printmaking I	½	9,10,11,12	5	V	L
0618	Studio in Printmaking II	½	9,10,11,12	5	V	L
0619	Design and Illustration	½	9,10,11,12	5	V	L
0621	Art of the Western World	½	11,12	5	V	L
0622	Art of Africa, Asia & the Americas	½	11,12	5	V	L
0623	Fine Art Photography	½	9,10,11,12	5	V	L
0624	Honors Art	1H	12	5	M/H	L/AP
0625	Interior Design	½	10,11,12	5	V	L
0626	Elements of Fashion	½	10,11,12	5	V	L
0627	Art and Identity	½	11,12	5	M/H	L
0628	America's Visual Edge	½	10,11,12	5	M/H	L
0629	Graphic Novels	½	9,10,11,12	5	V	L

Art Curriculum

- A. All students must take Studio in Art as a prerequisite for all subsequent art courses except Art of the Western World, the Art of Africa, Asia and the Americas, Art and Identity, America's Visual Edge. Studio in Art may not be taken concurrently with any other art course except with the instructor's approval.
- B. It is recommended that the serious art student include one or more art history courses in his/her art studies.
- C. Due to course requirements, it is highly recommended that students take no more than 2 art courses per semester.
- D. Many universities, colleges and art schools, as part of their acceptance process, require individual student art portfolios. The high school art faculty will offer assistance in the preparation of your art portfolio.

Students seeking an Advanced Regents Diploma may pursue a 5-unit sequence in art. Students may have several opportunities to exhibit their work locally or to publish their work in a variety of publications.

Recommended Art Department 5 Unit Sequences

Students pursuing an Advanced Regents diploma may choose to complete 1 unit of World Languages AND one of the 5-unit alternative sequences below. Please see the ***Graduation Requirements*** page and/or speak with your counselor.

Suggested 5 Unit Sequence

Studio in Art

Studio in Drawing and Painting 1

Studio in Drawing and Painting 2

Studio in Printmaking 1

***Studio in Ceramics 1 or Studio in Sculpture 1 or Fine Art Photography
Or Design and Illustration***

Plus 2.5 additional credits in art coursework

***Recommended 5 Unit Sequence:
Honors (full year = 1 credit)***

Studio in Art

Studio in Drawing and Painting 1

Studio in Drawing and Painting 2

Studio in Ceramics 1 or Studio in Sculpture 1

***Studio In Printmaking 1 or Design & Illustration or Fine Art Photography
Honors***

****Plus at least 1.5 additional credits in art coursework***

****It is recommended that the serious art student include ½ credit in any of the art history classes (America's Visual Edge, Art of Africa, Asia and the America's or Art of the Western World) as part of the 1.5 additional credits.***

Note:

***Students must be recommended for Honors Art by the Art Department.
A 5 unit sequence does not guarantee entrance into Honors Art.***

Art Course Descriptions

0600 STUDIO IN ART

Grade: 9, 10, 11, 12

20 weeks/5 meetings per week – ½ unit

Exam: local

Offerings: both semesters

Reading level: various

Prerequisite: none

Enjoy the freedom of self-expression while learning about how artists use the structure of art to create two-dimensional and three-dimensional art forms. You will use a variety of materials to help expand your creative and artistic skills. In addition, you will learn how artists think and how they develop their ideas through reflection, critical analysis, and revision. Successful completion of this course will allow you to enter all level one courses.

0611 STUDIO IN DRAWING AND PAINTING I

Grade: 9, 10, 11, 12

20 weeks/5 meetings per week – ½ unit

Exam: local

Offering: by semester

Reading Level: various

Prerequisite: Studio in Art

Basic drawing skills are fundamental to all other visual art forms. This course will teach you how to tap into your creative self through drawing and painting. A variety of techniques and materials will be used to develop vibrant artworks with line, value, texture, and color. Experiences will include contour, modeling form, and expressive approaches. Different drawing and painting media and methods will be explored, challenging your creativity while giving you the necessary tools to realize your visions.

0612 STUDIO IN DRAWING AND PAINTING II

Grade: 9, 10, 11, 12

20 weeks/5 meetings per week – ½ unit

Exam: local

Offering: by semester

Reading Level: various

Prerequisites: Studio in Art, Studio in Drawing & Painting I and teacher recommendation.

In Drawing and Painting II you will continue to develop your skills and a personal, creative vision by producing ambitious projects with greater focus on design, conceptual considerations, and self-expression. Examples of contemporary fine arts will serve as a springboard for your work. You may use unconventional art media, and you will have greater freedom to develop work on your own initiative.

0613 STUDIO IN CERAMICS I

Grade: 9, 10, 11, 12

20 weeks/5 meetings per week – ½ unit

Exam: local

Offering: by semester

Reading Level: various

Prerequisite: Studio in Art

Energize your school day with creative experiences in clay. The basic hand-built ceramic methods of pinch, coil, drape molding, and slab construction will be explored in the creation of several interesting and colorfully glazed projects.

0614 STUDIO IN CERAMICS II

Grade: 9, 10, 11, 12

20 weeks/5 meetings per week – ½ unit

Exam: local

Offering: by semester

Reading Level: various

Prerequisites: Studio in Art, Studio in Ceramics I and teacher recommendation

Individual creative growth and experimentation are the emphases in this advanced ceramics course. While Ceramics I focused on gaining control of the clay, Ceramics II will allow you to create larger and more conceptual work. Advanced methods in ceramic art will be introduced. Learning the potters' wheel is a major objective in this course.

0630 STUDIO IN CERAMICS III

Grade: 10, 11, 12

20 weeks/5 meetings per week – ½ unit

Exam: local

Offering: by semester

Reading Level: various

Prerequisites: Studio in Art, Studio in Ceramics I, II

Ceramics 3 is an advanced level class designed for students who would like to further develop their skills with clay. Students will produce work that demonstrates advanced knowledge of three dimensional design, while developing artistic concepts relevant to them, as art makers.

0615 STUDIO IN SCULPTURE I

Grade: 9, 10, 11, 12

20 weeks/5 meetings per week – ½ unit

Exam: local

Offering: by semester

Reading Level: various

Prerequisite: Studio in Art

Enter the third dimension in this introductory sculpture class. In this course, explore a variety of contemporary and historical sculpture techniques. If you like to construct, model, design and create three-dimensional works of art, this course is for you.

0616 STUDIO IN SCULPTURE II

Grade: 9, 10, 11, 12

20 weeks/5 meetings per week – ½ unit

Exam: local

Offering: by semester

Reading Level: various

Prerequisites: Studio in Art, Studio in Sculpture I and teacher recommendation

Individual expression and creative growth make up the heart of this advanced sculpture course. Professional presentation through increased technical proficiency will allow you to create larger and more conceptual pieces.

0617 STUDIO IN PRINTMAKING I

Grade: 9, 10, 11, 12

20 weeks/5 meetings per week – ½ unit

Exam: local

Offering: by semester

Reading Level: various

Prerequisite: Studio in Art

What do Rembrandt and Andy Warhol have in common? They were both accomplished printmakers who portrayed daily life through a type of media that could reach everyone in their societies. In this introductory course, you will learn processes such as etching, screen-printing and mono-prints that produce multiple prints of an image.

0618 STUDIO IN PRINTMAKING II

Grade: 9, 10, 11, 12

20 weeks/5 meetings per week – ½ unit

Exam: local

Offering: by semester

Reading Level: various

Prerequisites: Studio in Art, Studio in Printmaking I and teacher recommendation.

In Printmaking II, you will continue to learn more advanced and ambitious print methods and skills. You will develop a body of work that explores personal themes and concepts in depth.

0619 DESIGN AND ILLUSTRATION

Grade: 9, 10, 11, 12

20 weeks/5 meetings per week – ½ unit

Exam: local

Offering: by semester

Reading level: various

Prerequisite: Studio in Art

Graphic designers and illustrators play an important role in our daily lives. They create artwork that visually communicates a message to an audience. Logo designs, magazine layouts, packaging and book illustrations are just a few of the many things they create. In this course, you will experience each step of the design process from brainstorming, to preliminary sketches to final products. Both traditional art materials as well as computer graphics programs such as Adobe Illustrator and Photoshop will be used.

0621 ART OF THE WESTERN WORLD

Grade: 11, 12

20 weeks/5 meetings per week – ½ unit

Exam: local

Offering: by semester

Reading Level: various

Prerequisite: none

Does art reflect or define culture and history? Why can't today's art world just forget about the past? Learn how European and American art have worked within their cultures to influence and reflect change. Studio projects will enhance studies. Gallery and museum visits may be included.

0622 ART OF AFRICA, ASIA AND THE AMERICAS

Grade: 11, 12

20 weeks/5 meetings per week – ½ unit

Exam: local

Offering: by semester

Reading level: various

Prerequisite: none

If you would like to visually travel through Africa, India, China, Japan, Australia, South America, Mexico and Native North America then this is the class for you. The emphasis will be on recognizing and appreciating the aesthetic differences of these wonderfully diverse cultures. The opportunity to explore cultures through various studio projects will accompany traditional learning methods. Field trips to galleries or museums may be included.

0623 FINE ART PHOTOGRAPHY

Grade: 9, 10, 11, 12

20 weeks/5 meetings per week – ½ unit

Exam: Local

Offering: by semester

Reading Level: various

Prerequisite: Studio in Art

Have you ever wanted to build your own camera or learn how to print a photograph onto a piece of plain drawing paper? In this course, you will learn alternative photographic processes, work in the darkroom, use Polaroid and other instant films as well as dabble in some digital imaging. Individual interpretation of subject matter while studying unconventional trends in photography will be emphasized. Previous knowledge of photography is not required but helpful.

0624 HONORS ART

Grade: 12

40 weeks/5 meetings per week – 1H unit

Exam: Local

Offering: year long

Reading Level: medium/high

Prerequisites: Teacher recommendation plus three art courses that should include both two and three-dimensional experiences (see the Recommended Art Sequences page). If you are a motivated 12th grade student interested in stretching the boundaries of your understanding, creativity, and skills in art. In Honors Art you will have greater freedom to create an in-depth and expressive series of works in the manner of a professional artist. You will explore a wide variety of contemporary and diverse art forms. An exit portfolio will be developed. Work produced in this class can be used for college entrance portfolios. You may choose to submit an AP portfolio to the College Board in May for an AP grade and possible college credit.

0625 INTERIOR DESIGN

Grade 10, 11, 12

20 weeks/5 meetings per week – ½ unit

Exam: local

Offering: by semester

Reading Level: various

Prerequisite: Studio in Art

Designing interior spaces through color, texture, emphasis, shape and much more is what will be explored in Interior Design. You will learn to incorporate furniture styles and arrangement in one and two point perspective room drawings using materials that actual designers use. These skills will be applied to scale drawings and floor plans to create the interior of an entire house as well as computer programs used for Interior Design.

0626 ELEMENTS OF FASHION

Grade 10, 11, 12

20 weeks/5 meetings per week – ½ unit

Exam: local

Offering: by semester

Reading Level: various

Prerequisite: none

Interested in developing a sense of personal style and exploring the role of fashion in everyday life? Elements of Fashion will walk you through the history of fashion and designers with an emphasis on fads and trends as well as creating with the elements and principles of design. Careers in the field, marketing, fashion illustration as well as working with new and used materials to create wearable items will also be explored.

0627 ART AND IDENTITY

Grade: 11, 12

20 weeks/5 meetings per week – ½ unit

Exam: local

Offering: by semester

Reading Level: medium/high

Prerequisite: none

How do we assert our identities in this loud and sometimes judgmental world? Through their art, artists can teach us about who they are, where they're from and how they feel about a variety of social and political issues. Major events in the early 21st century may have highlighted the differences among us, causing conflict and misunderstanding. This course seeks to help us learn about each other in a way that generates understanding and positive action. Art projects and interrelated information will be combined resulting in a comprehensive study of contemporary American culture through the visual arts.

0628 AMERICA'S VISUAL EDGE

Grade 10, 11, 12

20 weeks/5 meetings per week – ½ unit

Exam: Local

Offering: by semester

Reading Level: various

Prerequisite: none

Body art, tattoos, and graffiti are cutting edge artistic processes...but are they? All of them have ancient origins. Find out how American art of the 21st century drives our economy, our politics, and our country while still maintaining deep roots. Plus, explore how the American visual experience is exploited as propaganda by those in power who would have us think and act as they intend. Participants may take this course for credit in either Art or Social Studies, but not for both.

0629 GRAPHIC NOVELS

Grades: 9,10,11,12

20 weeks/5 meetings per week – ½ unit

Exam: local

Offerings: both semesters

Reading level: various

Prerequisite: Studio in Art

Do you like reading graphic novels and comic books? Interested in creating your own graphic novel? In this course we will read and study a variety of graphic novels. You will also learn the techniques and fundamentals of drawing action figures, manga, creating storyboards and characterization. The culmination of the course will have you creating your own graphic novel in a style of your choosing.

BUSINESS/MARKETING EDUCATION

The Business/Marketing Department offers Orchard Park students the opportunity to explore and prepare for these types of business-related careers in many areas & industries, including business. Whether you are interested in an entry-level job or planning to attend college, lay the foundation with the courses we offer. Also check out the courses that may allow you to earn college credit!

Graduation Sequences

Students pursuing an Advanced Regents diploma may choose to complete one unit of World Language **AND** a 5-unit sequence in Business/Marketing Education. Please see Graduation Requirements on page 1 for more information.

College Credit Courses

Business/Marketing courses are open to all students. However, students may choose to take the following courses for transcribed college credit: Accounting Principles I, iComp II, College Success Skills, Business Law, Personal Finance, Principles of Marketing and Sports Management.

Business/Marketing Course Offerings

Course Number	Course Title	Course Credits	Grade Level	Meetings Per Week	Reading Level	Exams
\$0300	Career Planning & Management	1or2	9,10,11,12	5	V	L
0303	Personal Law	½	9,10,11,12	5	V	L
*0304	Business Law	1	9,10,11,12	5	V	L
*0313	College Success Skills	½	9,10,11,12	5	V	L
0321	Leadership Skills Development	½	9,10,11,12	5	V	L
++*0330	Personal Finance	½	9,10,11,12	5	V	L
*0331	Accounting Principles I	1	9,10,11,12	5	V	L
0332	Accounting Principles II	1	10,11,12	5	V	L
0334	Banking and Credit	½	9,10,11,12	5	V	L
0340	iComp I (Integrated Computers)	½	9,10,11,12	5	V	L
*0342	iComp II	½	10,11,12	5	V	L
*0381	Principles of Marketing	1	9,10,11,12	5	V	L
*0382	Sports Management	½	9,10,11,12	5	V	L
0383	Advertising & Entrepreneurship	½	9,10,11,12	5	V	L
0390	Career Exploration Internship Program	½	12	1	V	L

++ This course can fulfill the ½-unit requirement for financial literacy.

* May receive college credit for this course.

\$ 300 hours of outside work experience must be successfully completed for the second unit of credit.

Business/Marketing Department

College Credit Courses

Accounting Principles I (3 college credit hours)

Personal Finance (3 college credit hours)

iComp II (3 college credit hours)

College Success Skills (3 college credit hours)

Business Law (3 credit hours)

Principles of Marketing (3 credit hours)

Sports Management (3 credit hours)

CAREER & TECHNICAL EDUCATION ENDORSEMENT

The Orchard Park High School Business & Marketing Education Department is proud to offer the following program, approved by the New York State Education Department, to all students at OPHS. This program offers students an opportunity to explore the world of business and finance, while also giving them the opportunity to earn a Career & Technical Education endorsement on their high school diploma.

Approved CTE programs lead to an industry-recognized credential and offer:

- an opportunity to apply academic concepts to real-world situations;
- preparation for industry-based assessments or certifications; and the opportunity to earn college credit or advanced standing while still in high school; and
- work-based learning opportunities where students demonstrate mastery of skills essential in the workplace

Students who enroll in and successfully complete the following NYSED approved CTE program, including two industry-based technical assessments, may be awarded a technical endorsement on their diploma.

FINANCIAL LITERACY

NYS TECHNICAL ENDORSEMENT SEQUENCE

Students are strongly encouraged to pursue the following Career & Technical Education (CTE) Endorsement. This New York State recognition formally recognizes that students in our program graduate college and career ready.

The following NYS Education Department (NYSED) approved CTE program leads to an industry-recognized credential and offers:

- an opportunity to apply academic concepts to real-world situations;
- preparation for industry-based assessments or certifications; and the opportunity to earn college credit or advanced standing while still in high school; and
- work-based learning opportunities where students demonstrate mastery of skills essential in the workplace

Students who enroll in and successfully complete the following NYSED approved CTE program, including two industry-based technical assessments, may be awarded a technical endorsement on their diploma

Course	HS Credit Units
i-Comp I (Integrated Computers I)	1/2
i-Comp II (Integrated Computers II)	1/2
Accounting I	1
Banking & Credit	1/2
Career Planning & Management	1
Personal Finance	1/2
Accounting II OR Business Law OR Principles of Marketing	1
<i>Industry Based Technical Assessments – passing grades *</i>	N/A
Total Units of Credit	5



ACADEMY of FINANCE

Orchard Park students have an opportunity to participate in the nationally renowned Academy of Finance. Students who complete all of the requirements listed below will receive a certificate from the Orchard Park Academy of Finance, a Certified Academy within the National Academy Foundation (NAF), in addition to their Regents Diploma.

Students enrolled in this program will acquire the business skills, concepts, and knowledge that are needed in the world of finance. Academy students will participate in a variety of work-based learning activities such as operating a student-run credit union branch, field trips, classroom speakers, paid internships, and college credit courses.

Interested students will be requested to apply to this program during January of their eighth or ninth grade year. Students may see their guidance counselor or a business teacher for an application. The Academy of Finance requires students to take the following courses.

RECOMMENDED ACADEMY COURSE SEQUENCE

Year One

- iComp I (1/2 unit)
- Leadership Skills (1/2 unit)

Year Two

- Accounting Principles I (1 unit)

Year Three

- iComp II (1/2 unit)
- Banking and Credit (1/2 unit)
- Internship (may be during years 3 and/or 4, or between years 3 and 4)

Year Four

- Economics (1/2 unit through Social Studies department – AP or Corporate Economics also acceptable)
- Personal Finance (1/2 unit)

In-School Expectations

- Credit Union Operations/ Quaker Corner School Store Operations
- Membership and Active Participation in DECA

ACADEMY OF FINANCE

NYS TECHNICAL ENDORSEMENT SEQUENCE

All AOF Students are strongly encouraged to pursue the following Career & Technical Education (CTE) Endorsement. This New York State recognition formally recognizes (in addition to the local Academy of Finance certificate) that students in our program graduate college and career ready.

The following NYS Education Department (NYSED) approved CTE program leads to an industry-recognized credential and offers:

- an opportunity to apply academic concepts to real-world situations;
- preparation for industry-based assessments or certifications; and the opportunity to earn college credit or advanced standing while still in high school; and
- work-based learning opportunities where students demonstrate mastery of skills essential in the workplace

Students who enroll in and successfully complete the following NYSED approved CTE program, including two industry-based technical assessments, may be awarded a technical endorsement on their diploma.

Course	HS Credit Units
AOF i-Comp I (Integrated Computers I)	1/2
i-Comp II (Integrated Computers II)	1/2
Accounting I	1
Banking & Credit	1/2
AOF Leadership Skills Development	1/2
Personal Finance	1/2
Accounting II OR Business Law OR Principles of Marketing	1
AOF Internship Program	1/2
<i>Industry Based Technical Assessments – passing grades *</i>	N/A
Total Units of Credit	5

Business/Marketing Education Course Descriptions

0300 CAREER PLANNING & MANAGEMENT (CPM)

Grade: 9,10,11,12

40 weeks/5 meetings per week – 1-2 units

Exam: local

Offering: full year

Reading Level: various

Prerequisite: none

This course is designed to equip students with the knowledge and skills needed to make informed decisions about their future careers, whether they plan to enter the workforce directly after high school or pursue further education. Through a combination of classroom instruction, practical exercises, and project-based learning, students will gain a comprehensive understanding of the world of work and the steps needed to achieve their career goals. Students will be empowered to become proactive, goal-oriented individuals who are well-prepared for their future professional endeavors.

Students can earn an additional credit for this course by successfully completing 150 hours ($\frac{1}{2}$ unit of credit) or 300 hours (1 unit of credit) of outside work experience.

0303 PERSONAL LAW

Grade: 9,10,11,12

20 weeks/5 meetings per week – $\frac{1}{2}$ unit

Exam: local

Offering: by semester

Reading Level: various

Prerequisite: none

Personal Law develops an understanding of how law affects personal and occupational pursuits. This course will explore topics such as when to hire a lawyer, how to settle a dispute, discrimination, rights & responsibilities in the workplace, and how to avoid being taken advantage of as a consumer.

0304 BUSINESS LAW

Grade: 9,10,11,12

40 weeks/5 meetings per week - 1 unit

Exam: local

Offering: full year

Reading Level: various

Prerequisite: none

In Business Law, student-interactive debates and mock trials, current events discussions, guest speakers, and analysis of real cases are some of the various ways that the material is covered and applied. This course educates students on an assortment of legal concepts that affect the business world while at the same time showing students how they may be impacted personally in real-life situations. The material that students will learn includes the legal system and its foundations, court systems, criminal law, civil law and torts, business organizations, property law, contracts, trial procedures, employment law, and much more.

* You may earn college credit for this course! Students in Grades 11 and 12 may choose to pay SUNY Erie College (ECC) reduced tuition and receive college credit. With teacher or counselor recommendation, students in Grade 10 may also be eligible for college credit as well. This credit may be transferable to other colleges with an average of "C" or better. Contact a Business Teacher for more information.

0313 COLLEGE SUCCESS SKILLS

Grade: 9,10,11,12

20 weeks/5 meetings per week – ½ unit

Exam: local

Offering: by semester

Reading Level: various

Prerequisite: none

This course is for students who want to learn how to process information from lectures and textbooks quickly. This course will teach students techniques for note taking, studying, test taking, and reading. Students will also identify their individual learning styles, learn how to identify their instructors' teaching styles, and be able to utilize this information to their academic advantage. The goal of this course is to teach students how to learn more in less time!

*You may earn college credit for this course! Students in Grades 11 and 12 may choose to pay SUNY Erie College (ECC) reduced tuition and receive college credit. With teacher or counselor recommendation, students in Grade 10 may also be eligible for college credit as well. This credit may be transferable to other colleges with an average of "C" or better. Contact a Business Teacher for more information.

0321 LEADERSHIP SKILLS DEVELOPMENT

Grade: 9,10,11,12 40 weeks/2-3 meetings per week – ½ unit
Exam: local or 20 weeks/5 meetings per week – ½ unit
Reading Level: various Offering: full year or one semester

Prerequisite: none

This course is designed to prepare students for the rigors of college, career and professional success. This course will develop youth leadership skills, problem-solving/decision-making skills, communication skills, group dynamics, time management skills, public speaking skills, human relations skills, team building skills all while emphasizing leading with character. This course can help all students develop leadership skills and may also be of interest to current or potential STAP-Comm students.

0382 SPORTS MANAGEMENT

Grade: 9,10,11,12 20 weeks/5 meetings per week – ½ unit
Exam: local Offering: by semester
Reading Level: various

Prerequisite: none

Introductory business principles will be examined through an investigation of the scope of the sport industry. Functions of management, skills and attributes required of a sport manager and roles of a manager are discussed. Attention focused on how the managerial process relates to sport organizations and their products. Students will become acquainted with career opportunities in the sport management field.

* You may earn college credit for this course! Juniors or Seniors may choose to pay Canisius University reduced tuition and receive college credit. This credit may be transferable to other colleges. Contact a Business Teacher for more information.

0330 PERSONAL FINANCE

Grade: 9,10,11,12 20 weeks/5 meetings per week - ½ unit
Exam: local Offering: by semester
Reading Level: various

Prerequisite: none

This course seeks to teach students how to make informed decisions to reach personal financial goals. It targets five curricular units: income, money management, spending and credit, savings and investing, and risk management. Students will become financially savvy, a much needed skill in today's complex economy. The curriculum will allow students to explore the complete financial planning process and apply their knowledge using stimulating exercises and projects (e.g. creation of multiple income & expense

statements, use of the nationally renowned online MoneySkill program, and real life budget development scenarios).

* You may earn college credit for this course! Students may choose to pay SUNY Erie College (ECC) reduced tuition and receive college credit. This credit may be transferable to other colleges with an average of "C" or better. Contact a Business Teacher for more information.

0331 ACCOUNTING PRINCIPLES I

Grade: 9,10,11,12

40 weeks/5 meetings per week - 1 unit

Exam: local

Offering: full year

Reading Level: various

Prerequisite: none

This first year course will give students a thorough background in the accounting procedures used to operate a business. This background will be helpful for future employment as an accountant and as preparation for studying business courses at the college level.

* You may earn college credit for this course! Students in Grades 11 and 12 may choose to pay SUNY Erie College (ECC) reduced tuition and receive college credit. With teacher or counselor recommendation, students in Grade 10 may also be eligible for college credit as well. This credit may be transferable to other colleges with an average of "C" or better. Contact a Business Teacher for more information.

0332 ACCOUNTING PRINCIPLES II

Grade: 10, 11, 12

40 weeks/5 meetings per week – 1 unit

Exam: local

Offering: full year

Reading Level: various

Prerequisite: Accounting Principles I

Students will learn to use accounting as a source of information and as a tool for effective decision-making. They will understand financial accounting and learn to develop, analyze and interpret financial statements. Students will also be better equipped to make personal financial decisions. Computer and Internet applications will be utilized.

0334 BANKING AND CREDIT

Grade: 9, 10, 11, 12

20 weeks/5 meetings per week – ½ unit

Exam: local

Offering: by semester

Reading Level: various

Prerequisite: none

This course provides students with a fundamental understanding of the banking industry, financial institutions, and the principles of credit management. Students will explore the roles and functions of banks in the modern financial system, as well as the various types of financial services they offer to individuals and businesses including responsible credit usage. This course empowers students to make informed financial decisions.

0340 iComp I (INTEGRATED COMPUTERS)

Grade: 9,10,11,12

20 weeks/5 meetings per week – ½ unit

Exam: local

Offering: by semester

Reading Level: various

Prerequisite: none

This course will focus on teaching students how to effectively integrate computers into their academic, professional and personal lives. The students will develop high skill and confidence levels using common applications such as the Microsoft Office Suite. Students will learn how to be digitally literate and good digital citizens while using a variety of software to complete both individual and collaborative projects. This course is a prerequisite for all computer courses offered in the Business/Marketing Department. Successful completion of this course can fulfill the high school's 1/2 - unit requirement. Successful completion of iComp I in conjunction with iComp II students may earn college credit.

0342 iComp II

Grade: 10, 11, 12

20 weeks/5 meetings per week – ½ unit

Exam: local

Offering: by semester

Reading Level: various

Prerequisite: iComp

This hands-on course is designed for the college-bound student who wants to further develop his/her skills using Microsoft Office. Students will cover advanced word processing, databases, spreadsheets, and desktop publishing. At the conclusion of the course students will have the computer skills to help them succeed at the college level and in the workplace.

* You may earn college credit for this course! Students in Grades 11 and 12 may choose to pay SUNY Erie College (ECC) reduced tuition and receive college credit. With teacher or counselor recommendation, students in Grade 10 may also be eligible for college credit as well. This credit may be transferable to

other colleges with an average of “C” or better. Contact a Business Teacher for more information.

0381 PRINCIPLES OF MARKETING

Grade: 9, 10, 11, 12

40 weeks/5 meetings per wk – 1

Exam: local

Offering: full year

Reading Level: various

Prerequisite: none

This course will introduce students to the important role that marketing plays in our economic system. Content revolves around the basic marketing functions of financing, risk management, selling, promotion, pricing, purchasing, marketing information management, product/service/idea planning, and distribution. Students will refine entry-level employment skills, as well as develop more advanced career-sustaining skills, all while exploring the many career areas available in this field. Participation in hands-on marketing activities will be an integral part of the course.

* You may earn college credit for this course! Students in Grades 11 and 12 may choose to pay SUNY Erie College (ECC) reduced tuition and receive college credit. With teacher or counselor recommendation, students in Grade 10 may also be eligible for college credit as well. This credit may be transferable to other colleges with an average of “C” or better. Contact a Business Teacher for more information.

0383 ADVERTISING AND ENTREPRENEURSHIP

Grade: 9,10,11,12

20 weeks/5 meetings per week - ½ unit

Exam: local

Offering: by semester

Reading Level: various

Prerequisite: none

Business depends on advertising and public relations to stimulate customer interest in a product, increase their confidence in a company, and reinforce their desire to buy. Basic principles of advertising will be applied through student-based projects including print, radio, and TV ads.

This course will be beneficial to any student pursuing a business degree in college or planning for a career in business immediately following high school. It also serves as an exploratory course in the field of advertising. Topics will include the role of advertising and how it affects an individual's perception, advertising companies and agencies, creative copywriting, advertising plans, media planning, print, local advertising and ethics within contemporary advertising.

0390 INTERNSHIP PROGRAM

Grade: 12

20 weeks– ½ unit

Exam: final project

Reading Level: various

Prerequisites: Application (usually during January of Junior Year), and faculty recommendations

The Internship Program offers high school students valuable career experience as they work directly in the profession of their choice. Business, law, media, engineering, medicine, as well as vocational areas are among some of the fields they may pursue. Although the internship is unpaid, students will earn academic credit while working in a career which interests them. The Internship Program also gives students an opportunity to explore a career before pursuing it in college. Students must provide their own transportation to the internship site. Early dismissal may be necessary for certain internships.

ENGLISH

The English program aims, in its four-year sequence, to cultivate interest and competence in language, literature, and oral and written communication. The program is intended to assure steady growth in the student's ability to write and speak with clarity; to read with understanding, appreciation and insight; and to think critically. English 9, 10, 11 include frequent practice in writing and speaking, attentive study of selected books, and close attention to problems in the nature and use of the language. Increased command of vocabulary, spelling, usage, and punctuation are a continuing concern in all English classes. At the senior level, with the exception of AP Literature and Composition, English courses are half-year courses. Seniors are encouraged to select the courses that best suit their interests. Please note that a majority of these courses are also available to juniors. The English Department has a summer reading program for our Honors and AP courses. Information is distributed in late May and posted on the OPHS website.

English Course Offerings

Course Number	Course Title	Credits	Grade Levels	Meetings Per Week	Reading Level	Exams
1400	English 9	1	9	5	V	L
1402	English 9 Honors	1H	9	5	H	L
1410	English 10	1	10	5	V	L
1413	English 10 Honors	1H	10	5	H	L
1420	English 11 Regents	1	11	5	V	R
1423	A.P. English Language & Composition	1H	11	5	AP	R/AP
1429	A.P. English Literature & Composition	1H	12	5	AP	L/AP
1440	English Composition	½	11,12	5	V	L
1450	Contemporary Authors	½	11,12	5	V	L
1455	Literature of American Conflict	½	11,12	5	V	L
1456	Fright Fiction	½	11,12	5	V	L
1460	Creative Writing Workshop	½	11,12	5	V	L
1461	Drama	½	11,12	5	V	L
1462	Journalism	½	11,12	5	V	L
1463	British Literature	½	11,12	5	V	L
1464	World Literature	½	11,12	5	V	L
1466	Multicultural Literature	½	11,12	5	V	L
1469	Amer. Cultural & Media Studies	½	11,12	5	V	L
1470	Public Speaking	½	11,12	5	V	L
1471	Fantasy & Science Fiction	½	11,12	5	V	L
1472	Sports Literature	½	11,12	5	V	L
1473	Environmental Literature	½	11,12	5	V	L
1474	Introduction to Poetry	½	11,12	5	V	L
1490	ELA Lab		9,10,11,12	2/3	V	
1491	Reading Lab		9,10,11,12	2/3	L	

English Curriculum Sequence

- A. Four credits of English are required for graduation.
- B. 9th or 10th grade students may not earn more than (1) credit (one course) in English during one academic year. Exceptions to the rule against doubling in English at grades 9 and 10 must have the input of the counselor and English teachers involved and the approval of the house principal. Students who fail English are urged to attend summer school. A 5-unit sequence in English may be obtained by juniors or seniors enrolling in more than one English course per semester.
- C. See course descriptions for prerequisite and grade level requirements.

English Procedures for Course Failures

- A. Semester courses are repeated in their entirety.
- B. English 9 and English 10:
 - a. Either retake the course in summer school or repeat the course during the next year. English is skill-based, which means each course is dependent upon the previous; therefore, at no time should a ninth or tenth grader be taking more than one English course.
- C. English 11:
 - a. Retake and pass both the course, as well as the New York State Regents Examination in English Language Arts during summer school, if necessary.
 - b. Take English 11 in the fall, in addition to any required senior electives in English, and pass the January New York State Regents Examination in English Language Arts. Students must have an average of 65% for the fall semester in order to be considered for this option by their current teacher of record.

English Course Descriptions

1400 ENGLISH 9

Grade: 9

40 weeks/5 meetings per week–1 unit

Exam: local

Offering: year long

Reading Level: various

Prerequisite: none

English 9 develops a broad range of language arts skills. Reading, writing, grammar, vocabulary, spelling, listening, speaking, and research skills are addressed. In addition, students are introduced to interdisciplinary work and a variety of genres, including non-fiction. The course is designed to help students performing at various levels of achievement to prepare for the New York State Regents Examination in ELA.

1402 ENGLISH 9 HONORS

Grade: 9

40 weeks/ 5 meetings per week—1H unit

Exam: local

Offering: year long

Reading level: advanced

Prerequisites:

8th-grade ELA and teacher recommendation

ALL registered students are required to complete the course-specific summer reading assignments.

English 9 Honors is for highly motivated ninth-graders with demonstrated interest and ability in English who possess a solid, self-directed work ethic. The course provides instruction in writing and reading methods. The analytical study of literature is stressed, as is grammar and vocabulary development. During the summer break and over the course of the school year, students read seven full-length works in total and explore a number of different genres including drama, the novel, poetry, short fiction, and non-fiction. The course covers research skills and formal presentations. Many assignments begin to prepare students for the New York State Regents Examination in ELA and the College Board AP exams in English that students may opt to take in junior and senior year.

1410 ENGLISH 10

Grade: 10

40 weeks/5 meetings per week - 1 unit

Exam: local

Offering: year long

Reading Level: various

Prerequisite: 9th grade English

English 10 continues to develop a broad range of language arts skills introduced in English 9. Emphasis is placed on reading, writing, grammar, vocabulary, spelling, listening, speaking, and research skills. Students read, discuss and analyze non-fiction writings, stories, plays, poetry, and novels. This course is designed to help students meet or exceed the New York State Next Generation Learning Standards and to prepare for the New York State Regents Examination in ELA.

1413 ENGLISH 10 HONORS

Grade: 10

40 weeks/5 meetings per week– 1H unit

Exam: local

Offering: year long

Reading Level: advanced

Prerequisites: English 9 Honors **or** English 9R with teacher recommendation and a required after-school assignment to be completed before May 1st. ALL registered students are required to complete the course-specific summer reading assignments.

English 10 Honors is designed for the highly motivated student who possesses a consistent and conscientious work ethic as well as advanced abilities in

reading, writing, and critical thinking. This class requires that students actively and thoughtfully read, analyze, and discuss several works of literature, including fiction, nonfiction, poetry, and drama. Both proper grammar use and vocabulary development continue to be stressed. Active class participation is expected and essential for success. Students can expect to write numerous essays in a variety of styles; additionally, students write an extensive research paper on a contemporary, real-world issue after conducting in-depth scholarly research. Many assignments aim to prepare students for the New York State Regents Examination in ELA and the College Board AP exams in English that students may opt to take junior and senior year.

1420 ENGLISH 11 REGENTS

Grade: 11 40 weeks/5 meetings per week–1 unit

Exam: Regents Offering: year long

Reading Level: various

Prerequisite: English 10

English 11 covers a survey of American Literature with a focus on literary elements that will best address the New York State Regents ELA Exam. This course also includes an exploration and study of MLA style research skills and practices. Frequent reading and writing assignments are given with focus on English grammar, vocabulary, punctuation, spelling, and other skills necessary for mastery writing.

1423 AP ENGLISH LANGUAGE AND COMPOSITION

Grade: 11 40 weeks/5 meetings per week- 1H unit

Exam: AP and Regents Offering: year long

Reading Level: AP

Prerequisites: English 10 Honors with teacher recommendation **or** English 10R with teacher recommendation

ALL registered students are required to complete the course-specific summer reading assignments.

Advanced Placement English Language and Composition is for the highly motivated student with superior skills in reading, writing, grammar, and critical thinking. Students read a variety of texts, both nonfiction and fiction. Students will focus analytically on *what* authors and orators say and *how* they intentionally use language to convey information with the purpose to persuade. The course equally focuses on refining and polishing the students' own writing. Students write frequently in a variety of modalities, demonstrating their ability to research, compile, organize, and present their ideas effectively. A thesis paper is a course requirement. Oral presentations are required. Development of the skill necessary for success on the advanced placement exam is emphasized, and students are encouraged to take the Advanced Placement Exam in English Language and Composition in May.

NOTE: Students who successfully complete AP Language and Composition *may not* take English Composition during their senior year.

1429 AP ENGLISH LITERATURE AND COMPOSITION

R/W Grade: 12

40 weeks/5 meetings per week–1 H unit

Exam: local

Offering: year long

Reading Level: AP

Prerequisites: English 11R and teacher recommendation or AP Language and Composition.

ALL registered students are required to complete the course-specific summer reading assignments.

Advanced Placement Literature and Composition is a study of canonical works of literature from various time periods and cultural perspectives. Students intensively read a variety of prose and poetry. Literature will include poetry, drama, and fiction. Class activities focus on reading discussions and the building of analytical writing skills. Students are encouraged to take the Advanced Placement Exam in English Literature and Composition in May.

NOTE: This course is designed to provide students with the English background needed for college level English courses and to provide students with ample preparation for the Advanced Placement Examination in May. In addition to the work of the course proper, students are also expected to complete a variety of independent academic exercises, including reading required texts, prior to the start of the school year.

ENGLISH HALF-YEAR PROGRAM

All seniors are required to select one Reading course (R) and one Writing course (W) to create a full-year English sequence. Look at the chart below to check a course's R or W designation. Note that some of our half-year courses are designated as both Reading and Writing. Seniors are encouraged to select more than two courses if their schedules allow.

These courses are also open to juniors, with the exception of AP English Literature and Composition and Honors Seminar.

Reading Courses

Literature of American Conflict
Fright Fiction
Fantasy and Science Fiction
Sports Literature

Writing Courses

Journalism
Creative Writing Workshop
English Composition
Honors Seminar in Humanities

Courses Qualifying as Both Reading and Writing

British Literature
Contemporary Authors
Drama
Environmental Literature
American Cultural & Media Studies
Multicultural Literature
Public Speaking
Introduction to Poetry
World Literature

1440 ENGLISH COMPOSITION

W Grade: 11, 12

20 weeks/5 meetings per week – ½ unit

Exam: local

Offering: by semester

Reading Level: various

Prerequisites: English 11 and/or teacher recommendation

College bound or not, this is the course for you! English Composition accommodates students of varying writing abilities. No matter where you are as a writer, you will learn new strategies to further improve and polish your current level/style. You write in a variety of modalities such as narrative, descriptive, persuasive, compare/contrast, and expository writing. Emphasis is placed on grammar, sentence structure, mechanics, vocabulary development, and other writing techniques. The writing process encompasses drafting, editing, revising, and publishing. Your ability to work well independently and cooperatively is a critical aspect of this course.

NOTE: Students who successfully completed AP Language and Composition *may not* take English Composition during their senior year.

1450 CONTEMPORARY AUTHORS

R/W Grade: 11, 12

20 weeks/5 meeting per week – ½ unit

Exam: local

Offering: by semester

Reading Level: various

Prerequisites: English 11 and/or teacher recommendation

Contemporary Authors is a survey course designed to acquaint students with a wide range of literary genres. Students read and analyze novels, dramas, essays, short stories, poems, non-fiction works and other forms of writing for their styles and thematic content.

Periodic quizzes, tests, critical essays and research papers, research projects and/or oral presentations are used as a basis for evaluation of student progress.

1455 LITERATURE OF AMERICAN CONFLICT

R Grade 11/12

20 weeks/5 meetings per week- ½ unit

Exam: local

Offering: by semester

Reading Level: various

Prerequisites: English 11 and/or teacher recommendation

The Literature of American Conflict is a survey of American literature of varying genres designed for those students interested in a literary perspective on the wars and conflicts that have shaped America. Students will read, analyze and write about non-fiction, poetry, and fictional prose with themes of conflict. The course will move chronologically, beginning with an examination of Colonial and Revolutionary literature, moving through the major struggles of the 19th and 20th centuries, and culminating in an examination of the literature of contemporary conflicts. Please be advised that there will be graphic war violence and realistic war-related language in some of the film and literary content of this course.

1456 FRIGHT FICTION

R Grade 11/12

20 weeks/5 meetings per week- ½ unit

Exam: local

Offering: by semester

Reading Level: various

Prerequisites: English 11 and/or teacher recommendation

Fright Fiction is a course designed to acquaint students with some of the most popular literature ever written. Students will read, analyze and write about the poetry and fiction of horror, beginning with classical works such as Bram Stoker's *Dracula*, and progressing through more contemporary works. Like all senior electives, this course has a course-specific required reading assignment that must be completed before the class begins.

1460 CREATIVE WRITING WORKSHOP

W Grade: 11,12

20 weeks/5 meetings per week – ½ unit

Exam: local

Offering: by semester

Reading Level: various

Prerequisites: English 11 and/or teacher recommendation

If you believe that stories matter and you want to find your voice, Creative Writing Workshop will be a great fit for you. If you have an imagination that's just yearning to break free from the confines of formal essay writing, take a chance on this writing elective. The Creative Writing Workshop is designed for students who value expression and enjoy writing. In this class, students experiment with various genres and forms of writing to gain the skill and discipline of a creative writer. The focus of the workshop environment is to constructively collaborate to empower writers to produce their best work. Students are encouraged to pursue their own writing projects and will submit a portfolio as a final project.

1461 DRAMA

R/W Grade: 11,12

20 weeks/5 meetings per week – ½ unit

Exam: local

Offering: by semester

Reading Level: various

Prerequisites: English 11 and/or teacher recommendation

Drama is an introductory course designed to teach skills in reading and writing through performance assessment. During the course of study, students will focus on literacy skills, text analysis, and text creation through tableau, pantomime, improvisation, playwriting, voice, and Shakespeare. Active participation and attendance are mandatory. This course does NOT meet NCAA Clearing House requirements.

1462 JOURNALISM

W Grade: 11, 12

20 weeks/5 meetings per week – ½ unit

Exam: local

Offering: by semester

Reading Level: various

Prerequisites: English 11 and/or teacher recommendation

Journalism is a course in which students learn strategies and techniques of news reporting. These strategies include researching, investigating, writing, editing, advertising, and publishing. This course provides excellent preparation for collegiate writing in any academic discipline. Students are required to contribute to the award-winning high school paper, *The Voice*.

1463 BRITISH LITERATURE

R/W Grade: 11, 12

20 weeks/5 meetings per week – ½ unit

Exam: local

Offering: by semester

Reading Level: various

Prerequisites: English 11 and/or teacher recommendation

Students benefit from having a good background in British literature and an understanding of the historical perspective of literary works. In this course, students read and discuss major works of prose and poetry from the following periods: Anglo-Saxon, Medieval, Elizabethan, Renaissance, the Enlightenment, Romantic, Victorian, Modern, and Contemporary. Students are encouraged to participate in class discussions and to write in a variety of forms throughout the course.

1464 WORLD LITERATURE

R/W Grade: 11, 12

20 weeks/5 meetings per week – ½ unit

Exam: local

Offering: by semester

Reading Level: various

Prerequisites: English 11 and/or teacher recommendation

World Literature is a survey course. It covers significant works of the Hebrews, Greeks, Romans, Middle Ages, Renaissance, and Nineteenth Century. Students engage in extensive reading and writing.

1466 MULTICULTURAL LITERATURE

R/W Grade: 11, 12

20 weeks/5 meetings per week -½ unit

Exam: local

Offering: by semester

Reading Level: various

Prerequisites: English 10 and/or English teacher recommendation

In the novel *To Kill a Mockingbird*, Atticus gives his daughter, Scout, a simple piece of advice. “You never really understand a person until you consider things from his point of view—until you climb into his skin and walk around in it.” The aim of this course is to follow Atticus’s advice. Together, we will study novels, memoirs, films, and other works to gain insight into the lives of people whose cultures, belief systems, and traditions may be different from our own. We will engage in discussion, complete projects, and use writing to enhance our study. Our goal is to achieve a heightened empathy for and understanding of the world we live in, our fellow (global) citizens, and ourselves. **NOTE:** Participation and regular attendance are mandatory.

1469 AMERICAN CULTURAL & MEDIA STUDIES

R/W Grade: 11, 12

20 weeks/5 meetings per week- ½ unit

Exam: local

Offering: by semester

Reading Level: various

Prerequisites: English 11 and/or teacher recommendation

American culture and media are rife with images and information that are constructed views of reality. In order to be critical thinkers, students must be aware of the techniques and content used in the production of media, as those techniques and content influence the state of contemporary American culture. American Cultural & Media Studies will explore the language, vocabulary, and techniques by which ideas and information are transmitted. The primary thrust of the course will be a topical approach to film, television, and the internet. Through evaluation of film, advertising, television, and internet sources, students will be provided with multi-media literacy capability. This course does NOT meet NCAA Clearing House requirements.

1470 PUBLIC SPEAKING

R/W Grade: 11, 12

20 weeks/5 meetings per week -½ unit

Exam: local

Offering: by semester

Reading Level: various

Prerequisites: English 11 and/or teacher recommendation

Public Speaking Class is a semester course that focuses on overcoming fears of public speaking and prepares students for careers, college, and times during life when speaking to an audience, large or small, is expected. Public speaking provides training in a variety of personal and social competencies. In this course, students will learn to manage fears of communicating in a public setting, develop greater self-confidence and self-presentation skills, enhance personal and interpersonal power and influence, and regulate and adapt listening techniques to specific situations. Students will research, write, critique, prepare, and deliver different types of speeches, demonstrating various visual aids and microphone usage, while focusing on content, purpose, delivery techniques, and audience.

1471 FANTASY AND SCIENCE FICTION

R Grade 11, 12

20 weeks/5 meetings per week- ½ unit

Exam: local

Offering: by semester

Reading Level: various

Prerequisites: English 9, English 10, and/or teacher recommendation

Fantasy and Science Fiction is a course that delves into the literature of the recent and ancient (or imagined) past and the far future. Magic, wizards, and heroic quests are some of the elements of science fiction and fantasy, a genre that constitutes some of the most popular stories of our time. Yet authors of the great works in this genre were and are also deeply concerned with fundamental questions of morality, the purpose of human existence, and the strength of the human spirit. It is largely a literature of discovery—of both the familiar and unfamiliar, of mundane and unusual realms, of ideas, of the self. This course will explore the many dimensions of science fiction and fantasy as students read and examine how its authors have confronted timeless questions from extraordinary perspectives.

1472 SPORTS LITERATURE

R Grade 11, 12

20 weeks/5 meetings per week- ½ unit

Exam: local

Offering: by semester

Reading Level: various

Prerequisites: English 9, English 10, and/or teacher recommendation

This course explores the world of athletics and its impact on society as a whole. Some of the questions presented for critical analysis may include: Why have sporting events taken on such an important role in the lives of so many Americans? How is the perception of what it means to be an American connected to sports? How have sports served as a vehicle for social change in America? Students will read several full-length fiction and non-fiction texts, watch documentaries and cinematic films, and read a wide variety of shorter texts, ranging from poetry to blogs to magazine articles. Course texts may include *Friday Night Lights*, by H.G. Bissinger and *The Natural*, by Bernard Malamud. This course does NOT meet NCAA Clearing House requirements.

1473 ENVIRONMENTAL LITERATURE

R/W Grade 11, 12

20 weeks/5 meetings per week- ½ unit

Exam: local

Offering: by semester

Reading Level: various

Prerequisites: English 9, English 10, and/or teacher recommendation

Nature has been, for hundreds of years, a central focus, image, force, and symbol in literature. Environmental Literature is a course that focuses on the philosophy, observations, and activism of environmental writers. Students will learn how to read carefully and write thoughtfully about and alongside these writers to enhance their understanding of how and why environmental literature impacts its reader and society as a whole. Students will write about both the literature and the environment that surrounds them through a series of journals, reflective narratives, sound maps, hands-on experiences, and observational activities.

1474 INTRODUCTION TO POETRY

R/W Grade 11, 12

20 weeks/5 meetings per week- ½ unit

Exam: local

Offering: by semester

Reading Level: various

Prerequisites: English 9, English 10, and/or teacher recommendation

In this survey course, students will engage in a wide-ranging exploration of poetry. In particular, students will learn about the evolution of poetic styles, explore literary movements, and discuss the many themes addressed through poetry, taking care to consider the historical, cultural, and social conditions that have influenced poets over time. Additionally, students will write a variety of poems and will reflect on their own creative writing process. Students will also write analytical essays about some of the poems they study.

1487 ELA LAB 9

1488 ELA LAB 10

1490 ELA LAB 11/12

Grade: 9, 10, 11, 12

40 weeks/2-3 meetings per week

Exam: none

Offering: year long

Reading Level: various

Prerequisites: teacher recommendation; and/or ELA 8th grade assessment; and/or classroom performance on assignments and assessments

ELA Lab is for students experiencing difficulty with reading, writing, and analysis. The goals of the lab are to enhance writing ability; to help the students meet the reading and writing expectations of content-area classes, as well as the demands of the New York State Next Generation Standards for English Language Arts; and to prepare those in danger of not passing the NYS Regents Exam for ELA given at the end of 11th grade. Generating topics; interpreting essay assignments; and drafting, revising, conferencing, and editing for spelling, structural accuracy, and grammatical accuracy are all stressed.

1491 READING LAB

Grade: 9, 10, 11, 12

40 weeks/2-3 meetings per week

Exam: none

Offering: year long

Reading Level: various

Prerequisite: teacher recommendation/testing

Reading Lab is for students experiencing difficulty with reading assignments. The primary goal is to raise students' reading competency to a level which may help them experience success in their academic subjects and fulfill the requirements of English Language Arts Standards. Remedial instruction is provided in the areas of listening and reading to acquire information, and reading to interpret, analyze and critique text. Word-attack skills, vocabulary knowledge and study strategies are also stressed.

0702 HONORS SEMINAR IN HUMANITIES

W Grade: 12

20 weeks/5 meetings per week-½ H unit

Exam: local

Offering: by semester

Reading Level: high

Prerequisites: Successful completion of English 11, U.S. History, interview with instructors.

This course offers an in-depth, interdisciplinary approach to cultural/political themes, major historical periods, and/or geographic areas. Extensive writing in a variety of modes, active class participation, and individual research are central to this course. Highly self-motivated, college-bound seniors with intellectual curiosity, creativity, initiative, and writing talent are encouraged to apply. Students are selected through academic achievement and interviews with the seminar instructors who make the final selection of participants. Exceptional juniors may be admitted with instructors' consent. Participants may take this seminar for credit in either English or Social Studies, but not both.

MATHEMATICS

The high school mathematics program will prepare students with varying needs and abilities to think and reason logically. The program will provide opportunities for students to continue their study of mathematics through all four years of high school.

Students should develop an understanding of the real number system, improve and sharpen quantitative reasoning and computational skills, gain an understanding of the nature of mathematical proofs and techniques of critical thinking, and attain an appreciation of the role of mathematics in today's world.

Mathematics Diploma Requirements

For all students:

- A. All students must successfully complete three (3) years of mathematics.
- B. Students must pass one Regents examination to qualify for a high school diploma.
- C. A Regents diploma will be earned by passing at least one Regents exam and earning three (3) credits of mathematics.
- D. Successful completion of all three Regents exams is necessary for the Advanced Regents Diploma.

Mathematics Course Offerings

Mathematics Course Offerings

Course Number	Course Title	Credits	Grade Levels	Meetings Per Week	Reading Level	Exams
3707	Fundamentals of Algebra	1	9	5	L	L
*3711	Regents Algebra 1	1	9,10	5	V	R
3716	Geometry	1	10,11,12	5	L/M	L
*3719	Regents Geometry Honors	1H	9,10	5	H	R
*3720	Regents Geometry	1	9,10,11	5	V	R
*3725	Regents Algebra 2	1	10,11,12	5	V	R
*3726	Regents Algebra 2 Honors	1H	10,11	5	H	R
3734	Algebra II/Trig	1	11,12	5	L/M	L
+3738	Algebraic Techniques and Statistical Modeling (ATSM)	1	11,12	5	M	L
3739	Trigonometry	½	11,12	5	M	L
+3741	Pre-Calculus	1H	11,12	5	H	L
3742	Pre-Calculus BC	1H	11,12	5	H	L
+3754	Calculus	1H	12	5	AP/H	L/AP
3752	AP Calculus BC	1H	12	5	AP/H	L/AP
+3756	College Statistics	1H	11,12	5	H	L
3758	AP Statistics	1H	11,12	5	AP/H	L/AP

* Students must pass the class as a prerequisite for the next course. A passing grade on one Regents exam is required for graduation.

+ Can receive SUNY college credit for this course.

Mathematics Course Descriptions

3707 FUNDAMENTALS OF ALGEBRA

Grade: 9 40 weeks/5 meetings per week - 1 unit

Exam: local Offering: year long

Math Level: low

Prerequisite: Math 8

Fundamentals of Algebra is a course for students who have experienced some difficulty with mathematics and are not yet ready to enter Regents Algebra 1.

This course will develop essential algebra skills and problem solving strategies for “real-world” problems.

This course does not meet NCAA eligibility core-course requirements.

3711 REGENTS ALGEBRA 1

Grade: 9, 10 40 weeks/5 meetings per week – 1 unit

Exam: Regents Offering: year long

Math Level: various

Prerequisite: Math 8

Algebra 1 is the first year in the New York State Regents sequence. This course stresses algebra and algebraic concepts to help students become highly skilled algebraic manipulators and to become adept at applying algebraic structure to real-world problems. Students will explore, define, and manipulate linear, exponential, and quadratic functions. Students in this course will take the Algebra 1 Regents exam in June.

3701 AIS ALGEBRA 1

Grade: 9, 10 40 weeks/3 meetings per cycle

Exam: none Offering: year long

Reading Level: various

Prerequisite: Meets entrance criteria

AIS Algebra 1 is for students experiencing difficulty with math skills or, historically, with math comprehension. The goal of AIS is to hone in on the foundational skills needed to be successful on the Regents Algebra 1 Examination. The AIS teacher and classroom teachers communicate to ensure students' skill deficits are addressed throughout the course of the year. The work period is a combination of reteaching, preteaching, and student-directed questions.

To be recommended for AIS Algebra 1, students would meet 1/2 of the following criteria: well below mastery on assessments, teacher recommendation, or failing to meet standards despite full student effort.

3716 GEOMETRY

Grade: 10, 11, 12

40 weeks/5 meetings per cycle

Exam: local

Offering: year long

Math level: low/average

Prerequisites: Regents Algebra 1

This non-Regents course is designed to teach the essential concepts of Geometry including quadrilaterals, right triangle trigonometry, 3-dimensional geometry, coordinate geometry, area and perimeter, and transformations. Depth and breadth of topics may vary. This course is designed for students who have experienced difficulties in math. Students in this course will take a local exam in June.

3717 GEOMETRY B (CC) (Not Offered during the 2024-2025 school year)

Grade: 10,11, 12

40 weeks/5 meeting per week – 1 unit

Exam: Regents

Offering: year long

Math level: low/medium

Prerequisites: Algebra I

This is a comprehensive Regents course based on the Common Core Learning Standards designed to teach the essential concepts of Geometry required to complete the Regents Geometry exam. Topics include analytic thinking, congruent triangles and similarity, quadrilaterals, circles, right-angle trigonometry, and probability. Depth and breadth of topics may vary. Students in this course will take the Geometry Regents exam in June.

3719 REGENTS GEOMETRY HONORS

Grade: 9, 10

40 weeks/5 meetings per week - 1H unit

Exam: Regents

Offering: year long

Math Level: high

Prerequisites: Regents Algebra 1 and teacher recommendation

This class is designed for students who have successfully completed Regents Algebra 1 with a high level of achievement. Students who complete this course with a high level of achievement should be prepared to continue on the Honors track. Students in this course will take the Geometry Regents exam in June.

3720 REGENTS GEOMETRY

Grade: 9, 10, 11

40 weeks/5 meetings per week – 1 unit

Exam: Regents

Offering: year long

Math Level: various

Prerequisites: Regents Algebra 1

Regents Geometry is the second year of course work in the New York State Regents sequence. This course uses the study of geometry concepts to solve real world applications. The course will focus on formal geometric concepts. Students in this course will take the Geometry Regents exam in June.

3702 AIS GEOMETRY

Grade: 10,11

40 weeks/3 meetings per cycle

Exam: none

Offering: year long

Reading Level: various

Prerequisite: Meets entrance criteria

AIS Geometry is for students experiencing difficulty with math skills or who have historically struggled with comprehension. The goal of AIS is to hone in on the foundational skills needed to be successful on the Geometry Regents Examination. The AIS teacher and classroom teachers communicate to ensure students' skill deficits are addressed throughout the course of the year.

To be recommended for AIS Geometry, students would meet 2/3 of the following criteria: 9th grade Algebra Midterm Exam score of 72% or lower; below 70% in 2 or more quarters in Regents Algebra 1, teacher recommendation or failing to meet standards despite full student effort.

3725 REGENTS ALGEBRA 2

Grade: 10, 11, 12

40 weeks/5 meetings per week - 1 unit

Exam: Regents

Offering: year long

Math Level: average/various

Prerequisites: Regents Geometry

Regents Algebra 2 is the third and final year of course work in the New York State Regents sequence. This course is designed to further develop algebraic and trigonometric skills and their real-world applications. Students in this course will take the Algebra 2 Regents exam in June.

3726 REGENTS ALGEBRA 2 HONORS

Grade: 10, 11

40 weeks/5 meetings per week – 1H unit

Exam: Regents

Offering: year long

Math Level: high

Prerequisites: Honors Geometry

Regents Algebra 2 Honors is designed for students who have successfully completed Regents Geometry Honors with a high level of achievement. It is the third and final year of course work in the New York State Regents sequence. Students who successfully complete this course will be prepared to take Pre-Calculus BC. Students in this course will take the Algebra 2 Regents exam in June.

3734 ALGEBRA II/TRIG

Grade: 11, 12

40 weeks/5 meetings per week - 1 unit

Exam: local/non-Regents

Offering: year long

Math Level: low/average

Prerequisite: Geometry or Regents Geometry

This course includes additional study in algebraic manipulations, algebraic simplification, functions, probability, statistics, transformational geometry, and trigonometry. It is designed for students who have experienced some difficulty with mathematics yet wish to further explore topics in algebra, trigonometry, and graphing.

3739 TRIGONOMETRY

Grade Level: 11,12

20 weeks/5 meetings per week - ½ unit

Exam: local

Offering: half-year long

Math Level: various

Prerequisite: Regents Algebra 1 and currently enrolled in any Regents Geometry course

This course includes in-depth study of the 6 trigonometric functions. These will then be expanded to non-right triangle applications such as understanding the Unit Circle and reference angles.. Finally, students will explore the use of the trig laws and identities

3738 ALGEBRAIC TECHNIQUES AND STATISTICAL MODELING (ATSM)

Grade Level: 11,12

40 weeks/5 meetings per week – 1 unit

Exam: local/ECC

Offering: year long

Math Level: various

Prerequisite: Regents Algebra 2, Algebra II/Trig, or teacher recommendation. Algebraic Techniques and Statistical Modeling is designed for students who have successfully completed the above prerequisites and wish to further their study of mathematics and its applications. The topics include modeling with functions with an emphasis on linear, exponential, logarithmic, and quadratic. This course is aligned with Erie Community College (ECC) MT116, so students have the option of taking this class for ECC credit.

3756 COLLEGE STATISTICS

Grade: 11, 12

40 weeks/5 meetings per week – 1 H unit

Exam: local/ECC

Offering: year long

Math Level: high

Prerequisites: Regents Algebra 2 and teacher recommendation

College Statistics is an introductory course in applied statistics, probability, and data analysis. Students will learn how to display, describe, and compare distributions. Additionally, students will learn how to properly gather data through valid sampling techniques, observational studies, and experiments. Students will learn probability concepts and statistical inference techniques to draw conclusions about a population. Statistical software and the graphing calculator will be used frequently throughout the course. This course is aligned with the Erie Community College MT143 course, so students will have the option of taking this course for ECC credit.

3758 AP STATISTICS

Grade Level: 11, 12

40 weeks/5 meetings per week – 1 H unit

Exam: local/ AP

Offering: year long

Math Level: Advanced Placement

Prerequisites: Regents Algebra 2 and teacher recommendation.

AP Statistics will introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. The concepts of the course are exploring data, planning a study, anticipating patterns, and understanding statistical inference. The course will follow the syllabus as designated by the College Board. Students enrolled in this course will be prepared to take the AP Statistics exam. The course may be taken concurrently with other high-level math courses.

This course may make it possible for a student to obtain college credit for a one-semester introductory college statistics course at their college, depending upon the AP exam score and the policy of the college.

3741 PRE-CALCULUS

Grade: 11, 12

40 weeks/5 meetings per week - 1 H unit

Exam: local

Offering: year long

Math Level: high

Prerequisites: Pass Regents Algebra 2 and teacher recommendation.

Pre-Calculus is designed for students who have successfully completed Regents Algebra 2. The main purpose of this course is to analyze functions, understand conic sections, matrices, analytic geometry, limits, and derivatives in order to prepare students to take Calculus. This course is aligned with Erie Community College (ECC) MT180, so students have the option of taking this class for ECC credit. A graphing calculator is used in this course.

3742 PRE-CALCULUS BC

Grade: 11

40 weeks/5 meetings per week - 1 H unit

Exam: local

Offering: year long

Math Level: high

Prerequisites: Regents Algebra 2 Honors, and teacher recommendation.

Pre-Calculus BC is designed for students who have successfully completed Honors Algebra 2 with a very high level of achievement. Students who successfully complete this course will be prepared to take AP Calculus BC. This course is a prerequisite to AP Calculus BC. The students will loop with the teacher for both years.

3754 CALCULUS

Grade: 12

40 weeks/5 meetings per week - 1 H unit

Exam: local/ECC

Offering: year long

Math Level: high

Prerequisite: Pre-Calculus

Calculus is the study of approximations. This course will provide a graphical, numerical, and algebraic approach to differential and integral calculus. The topics of study will be limits, the derivative and its applications, and the integral and its applications. This course is aligned with the Erie Community College (ECC) MT181 course so students will have the option of taking this course for ECC credit. A graphing calculator will be used in this course.

3753 AP CALCULUS BC

Grade: 12

40 weeks/5 meetings per week - 1 H unit

Exam: local/AP (Level BC)

Offering: year long

Math Level: Advanced Placement

Prerequisites: Pre-Calculus BC, and teacher recommendation.

Calculus BC is offered following the Pre-Calculus BC course. At the end of this program all topics as specified by the College Board for Calculus BC will be covered. Students enrolled in this course will be prepared to take the AP Math Level BC Exam. Topics include limits, continuity at a point, derivatives and their applications, integrals and their applications, advanced techniques of integration, and the calculus of series and sequences. This course may make it possible for a student to obtain college credit for Calculus at their college, depending upon the AP Exam score and the policy of the college. It should also prepare the successful student for entrance into their college's Calculus 3 class.

MUSIC

The music program provides the opportunity for students to acquire knowledge, understanding and appreciation of the artistic, cultural and intellectual accomplishments of civilization. Students have opportunities to develop skills that will allow them to express personal and artistic talents.

Music Course Offerings

Course Number	Course Title	Credits	Grade Levels	Meetings Per Week	Reading Level	Exams
<i>Skill Development Courses</i>						
0251	Mixed Chorus	½	9,10,11,12	2/3	V	L
0253	Treble Chorus	½	9,10,11,12	2/3	V	L
0254	Choraliers	1H	10,11,12	5	H	L
0256	Swing Chorus	½	10,11,12	2	M/H	L
0271	Wind Ensemble	1H	9,10,11,12	5	H	L
0273	Symphonic Band	1	9,10,11,12	5	V	L
0274	Concert Band	1	9,10,11,12	5	V	L
0275	Concert Orchestra	1	9,10,11,12	5	V	L
0276	Symphonic Orchestra	1H	9,10,11,12	5	H	L
0280	Jazz Ensemble	½	9,10,11,12	2/3	V	L
0281	Checkmates	½	9,10,11,12	2/3	V	L
<i>Musical Knowledge Courses</i>						
0290	Music In Our Lives	½	9,10,11,12	5	V	L
0291	Basic Music Theory	½	9,10,11,12	5	V	L
0292	Advanced Music Theory	1H	10,11,12	5	M/H	L/AP
0298	Intermediate Music Theory	½	9,10,11,12	5	V	L
0294	Music Technology	½	9,10,11,12	5	V	L
0295	Music Composition	½	9,10,11,12	5	V	L

Music Curriculum Information

- A. Note that all students must complete 1 credit in music and/or art for graduation.
- B. See course descriptions for prerequisites and grade level requirements.
- C. Students may begin an instrument or singing in High School with no prior experience. See individual instructors.
- D. All music courses offered at Orchard Park High School are designed to comply with the New York State Learning Standards for the Arts.

MUSIC LESSONS: All students enrolled in a band, chorus or orchestra are required to attend scheduled music lessons. Students are responsible for any class work they might miss. Students are required to give classroom teachers at least twenty-four hours' notice in advance of each lesson. As per the music department handbook, lessons comprise a significant portion of the quarterly grade.

Students pursuing an advanced diploma may choose to complete one unit of world language and a five (5) unit sequence in music. See chart below:

5 Unit Sequence	Credit Units
(2 courses from Skill Development, 2 courses from Musical Knowledge ,& 1 course from either)	
Skill Development Courses	2
Musical Knowledge Courses	2
Choose (1) or 2 (1/2) credit courses from either category	1
TOTAL	5

Music Course Descriptions

0251 MIXED CHORUS

0253 TREBLE CHORUS

Grade: 9, 10, 11, 12

40 weeks/2-3 mtgs per week – ½ unit

Exam: local

Offering: year long

Music Experience: various

Prerequisite: none

Mixed Chorus and Treble Chorus are open to interested students who wish to participate in a choral ensemble. Emphasis is on development of the voice and music literacy. Attendance at all pre-concert rehearsals, concerts and lessons is mandatory. These courses of instruction are ideal for students who truly enjoy singing. We accommodate all skill levels in this non-auditioned chorus.

0254 CHORALIERS

Grade: 10, 11, 12

40 weeks/5 meetings per week – 1H unit

Exam: local

Offering: year long

Music Experience: high

Prerequisite: Audition in the spring. 1 year in Mixed Chorus/Girls Chorus recommended but not necessary.

Choraliers (sophomores, juniors, and seniors) are selected each year by audition. The group traditionally sings standard four-part choral works in a variety of styles from the master composers through contemporary and popular selections. The highest degree of musicianship and performance is expected of all participants. Participation in the ECMEA Quartets or NYSSMA Solo Festival is required. Attendance at all lessons, pre-concert rehearsals and concerts is mandatory for successful completion of the course.

0256 SWING CHORUS

Grade: 10, 11, 12

40 weeks/2 meetings per week – ½ unit

Exam: local

Offering: year long

Music Experience: medium/high

Prerequisites: Audition (Fall) and member of Choraliers

Swing Chorus is a select group (usually 16-20) which specializes in the proper interpretation of available swing, jazz and jazz-rock arrangements. Individuals must be able to assume a high degree of individual responsibility both musically and socially. Attendance at all pre-concert rehearsals and concerts is mandatory for successful completion of the course.

0271 WIND ENSEMBLE

Grade: 9, 10, 11, 12

40 weeks/5 meetings per week – 1H unit

Exam: local

Offering: year long

Music Experience: high

Prerequisites: Audition in spring and teacher recommendation.

Wind Ensemble is open by audition to students based on performance ability and on a generally set instrumentation. The group plays NYSSMA (New York State School Music Association) level V Music and above. The highest degree of musicianship and performance is expected of all participants. Attendance at all lessons, pre-concert rehearsals and concerts is mandatory for successful completion of the course. Participation in the ECMEA or NYSSMA Solo Festival is required.

0273 SYMPHONIC BAND

0274 CONCERT BAND

Grade: 9, 10, 11, 12

40 weeks/5 meetings per week – 1 unit

Exam: local

Offering: year long

Music Experience: various

Prerequisite: Teacher recommendation

Auditions are held in the spring of each year. Interested students should prepare a NYSSMA solo or short work representative of their ability level. The bands play music of all styles ranging in difficulty from NYSSMA Grade III to Grade V levels. Attendance at all lessons, pre-concert rehearsals and concerts is mandatory for successful completion of the course.

0275 CONCERT ORCHESTRA

Grade: 9, 10, 11, 12

40 weeks/5 meetings per week - 1 unit

Exam: local

Offering: year long

Music Experience: various

Prerequisite: Audition or permission of instructor

Auditions for Concert Orchestra are based on the recommendations of the Middle School string faculty for incoming freshmen and spring auditions at the High School for 9th, 10th and 11th grade students. Attendance at all lessons, pre-concert rehearsals and concerts is mandatory for successful completion of the course.

0276 SYMPHONIC ORCHESTRA

Grade: 9, 10, 11, 12

40 weeks/5 meetings per week – 1H unit

Exam: local

Offering: year long

Music Experience: high

Prerequisite: Audition in the spring

The Symphonic Orchestra is a full orchestra including winds and percussion, which come from the Wind Ensemble. The Symphonic Orchestra performs music of various styles of a NYSSMA difficulty level V and VI. The highest degree of musicianship and performance is expected of all participants. Attendance at all lessons, pre-concert rehearsals and concerts is mandatory for successful completion of the course. Participation in the ECMEA or NYSSMA Solo Festival is required. Student placement (seating) is based on the spring auditions.

0280 JAZZ ENSEMBLE

Grade: 9, 10, 11, 12

40 weeks/2 meetings per week - ½ unit

Exams: local

Offering: year long

Music Level: various

Prerequisite: Member of a major high school performing ensemble or permission of instructor.

Jazz Ensemble has its roots in the traditional "Big Band" sound. Membership is by audition based on a set instrumentation. Many students use this experience as preparation for participation in "Checkmates." Students will be introduced to a variety of styles, including swing, rock, Latin, ballads and contemporary compositions. Attendance at all pre-concert rehearsals and concerts is mandatory for successful completion of the course. In addition to in school concerts, this group may perform outside of school.

0281 CHECKMATES

Grade: 9, 10, 11, 12

40 weeks/2 meetings per week - ½ unit

Exams: local

Offering: year long

Music Level: various

Prerequisites: Member of a major high school performing ensemble or permission of instructor – audition required.

Checkmates is a traditional "Big Band" that performs a variety of swing, jazz, rock, and contemporary music of a more advanced level than Jazz Ensemble. This group performs both in and out of school. Rehearsals may be during the school day and/or one evening per week. Attendance at all pre-concert rehearsals and concerts is mandatory for successful completion of the course.

0290 MUSIC IN OUR LIVES

Grade: 9,10,11,12

20 weeks/5 meetings per week - ½ unit

Exam: local

Offering: by semester

Music Experience: various

Prerequisite: none

Music In Our Lives is a course recommended by NY State as a general introduction to music. We will be studying music through culture. The course is primarily a seminar/discussion style class that will explore how all types of music function in society, ancient to modern. Students are urged to take this course if their understanding of music is at a basic level.

0291 BASIC MUSIC THEORY

Grade: 9, 10, 11, 12

20 weeks/5 meetings per week - ½ unit

Exam: local

Offering: by semester

Music Experience: various

Prerequisite: none*

Basic Music Theory is a comprehensive study of musical notation, from review of lines and spaces in two different clefs through different types of scales, all key signatures, intervals, triads, seventh chords, dictation and sight-singing, simple progressions and part writing. The student is better prepared for intermediate music study in high school, college or in private study and will be able to analyze and prepare music independently.

*Basic Music Theory is recommended for Music Technology and is also a prerequisite for Intermediate Music Theory, and Music Composition.

0298 INTERMEDIATE MUSIC THEORY

Grade: 9, 10, 11, 12

20 weeks/5 meetings per week - ½ unit

Exam: local

Offering: by semester

Music Experience: various

Prerequisite: Basic Music Theory or by diagnostic assessment.

Intermediate Theory is intended to prepare students for Advanced Music Theory. The content builds upon the Basic Music Theory curriculum and continues with Notation, Scales, Tonality, Key, Modes, Intervals and Transposition, Chords, Cadences and Nonharmonic Tones. Students will achieve Aural Skills (Melody, Harmony, Rhythm) and basic Sight Singing Skills to achieve a solid understanding and foundation for any interested in enrolling in the honors weighted, Advanced Music Theory course with the *option* to take the AP Music Theory Exam in May.

0292 ADVANCED MUSIC THEORY

Grade: 10, 11, 12

40 weeks/5 meetings per week–1 H unit

Exam: local/AP

Offering: year long

Music Experience: high

Prerequisite: Intermediate Music Theory or by diagnostic assessment.

Advanced Music Theory is intended primarily as a preparatory course for students planning to major in music at the college level. This course corresponds to a typical introductory college music theory course that covers such topics as musicianship, theory, musical materials and procedures.

Musicianship skills include dictation and sight-singing. The A.P. examination may be taken in May, during the second semester of the course. This is not a composition class, but would give a solid foundation for Music Composition. (0295)

0294 MUSIC TECHNOLOGY

Grade: 9 - 12

20 weeks/5 meetings per week - ½ unit

Exam: local

Offering: both semesters

Music Experience: various

Prerequisite: Basic Music Theory is recommended but not required.

Music Technology is a hands-on course designed to teach students how to sequence music using the latest in computer software and MIDI (Musical Instrument Digital Interface). Students will develop a working knowledge of music sequencing, electronic music composition, and related terminology.

0295 MUSIC COMPOSITION

Grade 9 - 12

20 weeks/5 meetings per week – ½ unit

Exam: local

Offering: by semester

Music Experience: various

Prerequisite: Basic Music Theory or permission of instructor.

Students who are interested in composing music are encouraged to enroll in this course.

Music Composition will focus on the fundamentals of composing and arranging music. Students will also study several composers and musical forms found in both classical and pop music. They will practice writing music within these formats.

PHYSICAL EDUCATION and HEALTH

The mission of the Orchard Park High School Physical and Health Education program is to provide all students with the knowledge, skills and desire to maintain a healthy, active lifestyle.

Students in New York State are required to earn two credits of physical education for graduation. New York State also has set three standards that students must meet in physical education. These are:

1. Each student will have the necessary knowledge and skills to establish and maintain physical fitness, participation in physical activity and maintain personal health.
2. Each student will acquire the knowledge and ability to create and maintain a safe and healthy environment.
3. Each student will understand and be able to manage his/her personal and community resources.

Physical Education and Health Course Offerings

Course Number	Course Title	Credits	Grade Levels	Meetings Per Week	Reading Level	Exams
0100	Phys. Ed. 1 st Semester	¼	9,10	2-3	V	L
0101	Phys. Ed. 2 nd Semester	¼	9,10	2-3	V	L
0110	Phys. Ed. 1 st Semester	¼	11,12	2-3	V	L
0111	Phys. Ed. 2 nd Semester	¼	11,12	2-3	V	L
0140	Health	½	10,11,12	5	V	L
0145	American Red Cross Certified Lifeguard Training Course	½	10,11,12	5	V	L
0152	College Transition Skills	½	12	5	V	L
0146	American Red Cross First Aid and Athletic Injuries	½	10,11,12	5	V	L
0147	Exercise Science	½	11,12	5	V	L

Physical Education and Health Curriculum Sequence

Students may not obtain a major sequence in physical education, health and wellness. A student is required to earn two credits of physical education for graduation. The student must also earn ½ credit of health for graduation.

Physical Education and Health FlowChart

Numerical designation before a course refers to the lowest grade in which the student may enter the course.

9 & 10 – Physical Education



11 & 12 Physical Education

Health Education

Grade 10, 11, or 12

0100 PHYSICAL EDUCATION 9 & 10 1st SEMESTER

0101 PHYSICAL EDUCATION 9 & 10 2nd SEMESTER

PHYSICAL EDUCATION 9 & 10

Grade 9, 10

40 weeks/2-3 meetings per week – ½ unit

Reading Level: various

Offering: year long

Prerequisite: none

Students will participate in a total of 20 pre-selected activities in their 9th and 10th grade programs. The activities are similar to the activities they will participate in 11th and 12th grade physical education. These activities may be similar; however, their classroom lesson delivery will be introductory and age appropriate.

0110 PHYSICAL EDUCATION 11 & 12 1st SEMESTER

0111 PHYSICAL EDUCATION 11 & 12 2ND SEMESTER

PHYSICAL EDUCATION 11 & 12

Grade: 11, 12

40 weeks/2-3 meetings per week – ½ unit

Reading Level: various

Offering: year long

Prerequisite: none

Students will have an opportunity to expand interests and experiences gained during the 9 – 10 grade units.

Activities include but are not limited to aquatics, archery, tennis, ultimate frisbee, badminton, and personal fitness, snowshoeing, aerobics, table tennis, pickleball, dancing, floor hockey, football, soccer, team handball, basketball, and personal fitness.

***We will utilize the Fitnessgram Physical Fitness Test developed by the Cooper Institute. Results of the test can be found in the Powerschool portal.

0140 HEALTH EDUCATION

Grade: 10, 11, 12

20 weeks/5 meetings per week – ½ unit

Exam: local

Offering: both semesters

Reading Level: various

Prerequisite: Grade level requirement

Health is a state mandated course. Units of study include: Emotional, Mental & Physical Wellness, Nutrition, Diseases and Disorders, Alcohol and Substance Abuse, Personal and Home Safety, Human Growth and Development, and the Health Benefits of Exercise. This class will focus on social aspects of health, as opposed to more “scientific” aspects. This is stated with the understanding that students should come to class with an accurate knowledge base in the sciences as they relate to human biology. It should be noted that accurate, factual information is essential to making health enhancing decisions. Personal responsibility will be the primary focus of this class. Throughout the units listed above, the importance of patience is emphasized, noting that it is often easier to be unhealthy than healthy. This course utilizes lecture, debate, guest speakers, video presentations, class projects, media center research, quizzes, and tests as a means of delivering and assessing student knowledge of health information.

Course requirements may include: written and oral projects, current reports, book reports as well as other class and homework assignments.

0145 AMERICAN RED CROSS CERTIFIED LIFEGUARD TRAINING COURSE

Grade: 10, 11, 12

20 weeks/5 meetings per week – ½ unit

Exam: local

Offering: both semesters

Reading Level: various

*** Due to course overlap, students may not take this course if they have already taken the American Red Cross First Aid/CPR/AED (Course#).

Prerequisite: Lifeguard pretest scheduled the spring before the next school year. This will not be given before each semester:

1. You must be 15 years old on or before the final scheduled session of your course. (End of January or June depending on when you take the course.)
2. Swim 300 yards continuously. Candidates may swim using the front crawl, breaststroke or a combination of both. Swim goggles may be used.
3. Tread water for 2 minutes using only the legs.
4. Complete a swimming, diving, and retrieving timed event.

More detailed information can be found at:
<https://www.opschools.org/domain/93>

Final Exam: Students must pass both the practical final as well as a written final.

Lab Fee: There is a \$41 fee for those students who want their American Red Cross Certification Card which will allow them to be gainfully employed as a public pool lifeguard. The \$41 fee is subject to change based on American Red Cross pricing.

The purpose of the American Red Cross Lifeguarding course is to provide entry-level lifeguard participants with the knowledge and skills to prevent, recognize and respond to aquatic emergencies and to provide care for breathing and cardiac emergencies, injuries and sudden illnesses until emergency medical services (EMS) personnel take over. Students taking this course will receive training in Professional Rescuer CPR and First Aid in addition to basic lifeguarding skills. This course will split time between the pool (practical setting) and classroom (knowledge based setting). Students with swimming/pool medical excuses cannot take this class as students will need to get into the pool in order to pass this course.

Certification Requirements: Attend all class sessions, successfully perform all required skills, successfully complete three final skill scenarios; and pass the written exam with a minimum grade of 80 percent or better on each section.

Certification Validity: American Red Cross certificate for Lifeguarding/First Aid/CPR/AED for Lifeguards-2 year.

0146 AMERICAN RED CROSS CERTIFIED FIRST AID/CPR/AED & ATHLETIC INJURIES

Grade: 10, 11, 12 20 weeks/5 meetings per week – ½ unit

Exam: local & ARC Examination Offering: both semesters

Reading Level: various

Prerequisite: Grade Level Requirement

*** Due to course overlap, students may not take this course if they have already taken the American Red Cross Lifeguarding Course 0145.

Final Exam: Students must pass both the practical final as well as a written final.

Lab Fee: There is a \$30 fee for those students who want their American Red Cross Certification Card. \$30 Fee is subject to change.

The purpose of the American Red Cross First Aid course is to provide entry-level First Aid, CPR/AED training to participants with the knowledge and

skills to prevent, recognize, and respond to emergencies and to provide care for breathing and cardiac emergencies, injuries and sudden illnesses until emergency medical services (EMS) personnel take over. In addition to the First Aid/CPR/AED, students will learn how to treat and care for the most common athletic injuries. Career options in the field of medicine and sports medicine will also be explored and discussed, to prepare students for life outside of high school. A basic knowledge of human anatomy will be helpful for the completion of the course.

Certification Requirements: Attend all class sessions, successfully perform all required skills, successfully complete the final skill scenarios; and pass the written exam with a minimum grade of 80 percent or better on each section.

Certification Validity: American Red Cross certificate for First Aid/CPR/AED is 2 years.

0147 EXERCISE SCIENCE

Grade 11 & 12

20 weeks/5 meetings per week – ½ unit

Exam: local

Offering: both semesters

Reading Level: various

Prerequisite: Grade Level Requirement

Final Exam: Local

The Purpose of this course takes an in-depth examination of the effects of exercise on the body. Through this course, students will learn basic anatomy, biomechanics, and physiology, as well as proper principles and techniques to design an effective exercise program. An extensive look into different career options in the field of exercise will also be explored and discussed, to prepare students for life outside of high school. The study of nutrition and human behavior will also be integrated into the course to enhance the students' comprehension of this multifaceted subject. This course will be offered to upperclassmen students.

SCIENCE

The science program has been designed to provide a variety of courses at various levels of difficulty in order to give all students the opportunity to increase their understanding and appreciation of the natural world in which they live. They will study the methods of scientific inquiry and learn the fundamental skills and attitudes which scientific study requires.

All science courses include class discussion, demonstrations and individual laboratory work. The laboratory work reinforces the basic factual material discussed during class lecture periods and permits the students to develop their problem-solving skills. Students are also encouraged to explore their own science interests through individual and group studies, experimentation, and reference and conference work.

Science Course Offerings

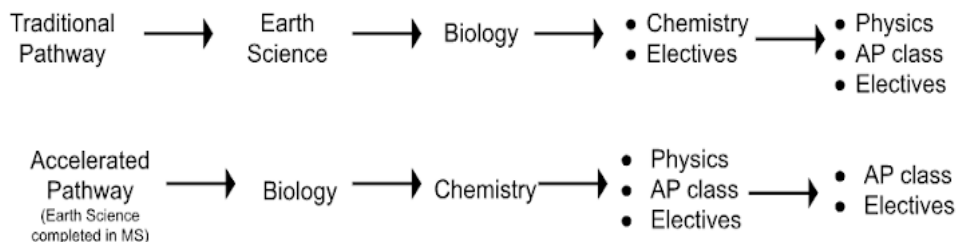
Course Number	Course Title	Credits	Grade Levels	Meetings Per Cycle	Reading Level	Exams
4494	General Earth Science	1	9	6	L/M	L
4504	Regents Earth Science	1	9,10,11	9	M/H	R
4506	Regents Biology B	1	10,11,12	9	L/M	R
4508	Regents Biology A	1	9,10,11,12	8	M/H	R
4510	Advanced Biology	1H	11,12	6	H	L/AP
4511	Comparative Vertebrate Anatomy	½	10,11,12	6	M/H	L
4512	Genetics: The Study of Heredity & Biotechnology	1	10,11,12	6	M/H	L
4521	General Chemistry	1	11,12	6	M	L
4523	Regents Chemistry	1	10,11,12	8	M/H	R
4525	Advanced Chemistry	1H	11,12	6	H	L/AP
4551	General Physics	1	11,12	6	M	L
4553	Regents Physics	1	11,12	8	M/H	R
4555	A.P. Physics	1H	12	6	H	L/AP
4577	Ecology	½	10,11,12	6	M	L
4578	Astronomy	½	10,11,12	6	M/H	L
4579	Oceanography	½	10,11,12	6	M	L
4580	Disasters	½	10,11,12	6	L/M	L
4581	Forensics	½	10,11,12	6	M/H	L

NOTE: In order for a student to transfer from a General to a Regents level course, a meeting including the general teacher, Regents teacher, instructional leader, school counselor, and house principal must be held by the end of the 3rd week of school. Regents to General levels changes must be made by the end of the 12th week of school, and must be made in consultation with the instructional leader and permission from the house principal.

Science Curriculum Sequence

- A. A Regents Examination in Science must be passed for a student to qualify for a high school diploma. Students are required to earn three credits in science. One credit must be from the Living Environment, one credit must be from the Physical Setting, and the third can be from either.
- B. In order to receive a Regents diploma, at least one science Regents exam must be passed. Two science Regents exams must be passed for an Advanced Regents diploma.
- C. Lab work is required by NYS law, in all Regents courses. Failure to complete required laboratory work will prohibit a student from taking the Regents examination at the end of the year.
- D. A student having received credit for a general course in Earth Science, Chemistry or Physics may earn Regents credit by successfully completing a Regents course including lab work and examination in the subject. If Regents credit is granted, the credit for the general course must be forfeited.
- E. Comparative Vertebrate Anatomy, Ecology, Genetics, Astronomy, Disasters, and Forensics will be presented as either 20 weeks/5 meetings per week or 40 weeks/2-3 meetings per week depending upon scheduling.
- F. See course descriptions for prerequisites and grade level requirements. See science flowchart.
- G. In rare cases it may be possible to test out of Regents Biology and/or Regents Chemistry in order to be placed into the advanced level of the course. If you are approved for this advancement certain pre and co-requests may need to be modified. See your instructor for details.

OPHS Science FlowChart



Electives

- ★ Anatomy
- ★ Astronomy
- ★ Disasters
- ★ Ecology
- ★ Genetics
- ★ Oceanography
- ★ Forensics

Advanced Courses

- ★ AP Physics
- ★ Chemistry
- ★ Biology

**Refer to course descriptions in the Curriculum Handbook for specific prerequisites*

Science Course Descriptions

4494 GENERAL EARTH SCIENCE

Grade 9 40 weeks/5 meeting per week – 1 unit

Exam: local Offering year long

Reading Level: low/medium

Prerequisite: Teacher/school counselor recommendation

This course will introduce the student to the fundamental principles of Earth Science. Topics will include basic physical science, geology, mineralogy, astronomy, meteorology, and some current issues facing the Earth. Laboratory experiences are important to all sciences and will be incorporated into the regular class period as time permits. A comprehensive local final examination will be given at the end of the school year.

4504 REGENTS EARTH SCIENCE

Grade: 9, 10, 11 40 weeks/5 meetings per week – 1 unit

Exam: Regents 3 labs in 6 day cycle

Reading Level: medium/high Offering: year long

Prerequisites: Successful completion of 8th grade math and science and teacher recommendation.

Regents Earth Science is a concentrated course which includes physical and historical geology, mineralogy, petrology, geomorphology and topography.

Also included in the program is an overview of space science and meteorology. It has been designed to follow the New York State Regents syllabus and the common core learning standards. This course includes a mandatory lab component that must be successfully completed for admission to the Regents examination.

4506 REGENTS BIOLOGY B – LIVING ENVIRONMENT

Grade: 10, 11, 12 40 weeks/5 meetings per week – 1 unit

Exam: Regents 3 labs in 6 day cycle

Reading Level: low/medium Offering: year long

Prerequisites: Earth Science with teacher recommendation.

This is a comprehensive Regents biology course designed to provide the essential information required to complete the New York State Living Environment Exam. Topics include biochemistry, taxonomy, cytology, physiology, comparative anatomy, genetics, ecology and evolution. Depth and breadth of topics may vary. This course includes a mandatory lab component that must be satisfied in order to take the Living Environment final state exam.

4508 REGENTS BIOLOGY A – LIVING ENVIRONMENT

Grade: 9, 10, 11, 12 40 weeks/5 meetings per week – 1 unit

Exam: Regents 2 labs in 6 day cycle

Reading Level: medium/high Offering: year long

Pre or Corequisites: Earth Science with teacher recommendation.

This is a concentrated and comprehensive course designed to provide a strong foundation necessary to pursue advanced work in biological science. The essential information required to complete the New York State Living Environment Exam is covered along with numerous extended area topics. Topics include biochemistry, taxonomy, cytology, physiology, anatomy, genetics, evolution and ecology. This course includes a mandatory lab component that must be satisfied in order to take the Living Environment final state exam.

4510 ADVANCED BIOLOGY

Grade: 11, 12 40 weeks/5 meetings per week – 1 H unit

Exam: local Offering: year long

Reading Level: high

Prerequisites: Biology, Chemistry, and Earth Science Regents exams and teacher recommendation. **Pre or Corequisite:** Physics

This course is designed to provide the student with college-level topics in the biological sciences. The lecture portion of the course covers major topics in biology ranging from the molecular to the biosphere levels of organization. The class content is designed around the four main ideas of an AP curriculum. The course does not include a lab schedule. Limited labs are conducted as the

class schedule allows. Lab simulations are scheduled in preparation for students interested in challenging the AP exam. The A.P. examination may be taken following this course.

4511 COMPARATIVE VERTEBRATE ANATOMY

Grade: 10, 11, 12 40 weeks/2 ½ meetings per week or
Exam: local 20 weeks/5 meetings per week–½unit
Reading Level: medium/high Offering: both semesters

Prerequisites: Biology and Earth Science and teacher recommendation.

Pre or Corequisite: Chemistry

Comparative Vertebrate Anatomy is designed as an additional choice in advanced biological science. It is a lab-lecture type course with a major portion of the time spent in laboratory dissection. During the course, animals are observed and dissected with comparisons made in structure. Evolutionary changes in structure and how these relate to function and lifestyle are emphasized. Both written and practical exams are given. The final exam is a local, comprehensive examination. This course is recommended for average to above average students, especially those planning to enter a health-oriented field.

4512 GENETICS: The Study of Heredity & Biotechnology

Grade: 10, 11, 12 40 weeks/2-3 meetings per week or
Exam: Local 20 weeks/5 meetings per week – ½ unit
Reading Level: medium/high Offering: various

Prerequisites: Biology and Earth Science and teacher recommendation.

Pre or Corequisite: Chemistry

Genetics offers interested science students an additional choice in biological science. The laws of genetics, structure of chromosomes and genes, protein formation, gene regulation and expression, and mutant genes in the human population are topics developed. Additional exploration of understanding diseases and how to treat them (individualized drugs), Stem Cell Research, CRISPR, and Genetic Modification of foods are incorporated. Issues related to bioethics are also discussed. Laboratory work supplements the lectures. This course is recommended for average to above average students, especially those planning to enter a health-oriented field.

4521 GENERAL CHEMISTRY

Grade: 11,12 40 weeks/5 meetings per week – 1 unit
Exam: local Offering: year long
Reading Level: medium

Prerequisites: Earth Science and Biology and teacher recommendation.

General Chemistry introduces fundamental principles of chemistry and is designed for the non-science major. The major topics studied are applications

Laboratory experiences related to the topics of study are an integral part of the course and are incorporated into regular class time. A comprehensive local examination is given at the end of the school year.

Grade: 10,11,12 40 weeks/5 meetings per week – 1 unit

Reading Level: medium/high Offering: year long

Pre or Corequisite: Geometry (CC) (or permission from House Principal) and Biology

Mathematical relationships in problem-solving are fundamental to a number of units. Manipulative skills and understanding of basic procedures are stressed in the laboratory.

Laboratory work is an integral part of the course and must be successfully completed for admission to the Regents examination.

Grade: 11,12 40 weeks/5 meetings per week – 1 H unit

Reading Level: high

Prerequisites: Regents Earth Science, Regents Biology, Regents Chemistry, Geometry (CC), and teacher recommendation.

Pre or Corequisite: Physics

This course is designed for the interested and capable student and affords an opportunity to do college-level work in chemistry. There is no lab component, though lab situations are addressed. The course prepares the student for a first year college Chemistry course as well as ample preparation toward the AP Chemistry exam. The AP exam is not mandatory. Essentially problem-solving in nature, the course expands and enhances the students' Regents Chemistry experience.

4551 GENERAL PHYSICS

Grade: 11, 12

40 weeks/5 meetings per week – 1 unit

Exam: local

Offering: year long

Reading Level: medium

Prerequisites: Algebra I (CC), Earth Science, Biology, Chemistry and teacher recommendation.

General Physics is intended for students who would prefer and benefit most from a conceptual approach to the subject rather than a computational approach. Physics is, however, an intellectually demanding subject and students will be successful only if they take an active role in the learning process. Course content includes the following: mechanics, waves, electricity, sound, nuclear physics, and fluids.

Projects and labs are integral parts of physics and are incorporated into the regular class time.

4553 REGENTS PHYSICS

Grade: 11, 12

40 weeks/5 meetings per week – 1 unit

Exam: Regents

2 labs in 6 day cycle

Reading Level: medium/high

Offering: year long

Prerequisites: Earth Science, Biology, and teacher recommendation.

Pre or Corequisite: Algebra II (CC) (or permission from the House Principal) and Regents Chemistry.

Physical Setting/Physics is designed for students of above average ability. The Physical Setting/Physics course presents to the student the major fundamental physical concepts in the following core areas: mechanics, energy, wave phenomena, electricity and magnetism and modern physics. Laboratory work is an integral part of the course and must be successfully completed for admission to The University of the State of New York Regents High School Examination in PHYSICAL SETTING/PHYSICS.

4555 ADVANCED PLACEMENT PHYSICS

Grade: 12

40 weeks/5 meetings per week – 1H unit

Exam: Local/AP (Part 1)

Offering: year long

Reading Level: high

Prerequisite: Regents Earth Science, Regents Biology, Regents Chemistry, and teacher recommendation. **Corequisite:** Calculus

AP Physics is a calculus based course intended for potential science and engineering majors. The course of study will focus on mechanics which include: Newton's Laws, linear and rotational motion, work energy, systems of particles, and harmonic motion. Complex, multi-step problem solving is essential to each area of the course. Nightly homework assignments will require about one hour to complete. University level laboratory experiences and long-term projects are integral parts of the AP Physics program.

4577 ECOLOGY

Grade: 10,11,12

40 weeks/2-3 meeting per week or

Exam: local

20 weeks/5 meetings per week – ½ unit

Reading Level: medium

Offering: various

Prerequisites: Earth Science, Biology, and teacher recommendation.

Pre or Corequisite: Chemistry

Ecology is a study of interactions between living organisms and the environment. One quarter focuses on local forest and aquatic ecosystems. The other quarter deals with global issues of human population and resource consumption, biodiversity loss, global warming, and environmental technology and design. A major independent project is required.

4578 ASTRONOMY

Grade: 10, 11, 12

40 weeks/2 ½ meetings per week or

Exam: local

20 weeks/5 meetings per week – ½ unit

Reading Level: medium/high

Offering: various

Prerequisites: Earth Science, Biology, and teacher recommendation.

Pre or Corequisite: Chemistry, Geometry

Astronomy is designed to provide the student with the fundamental understanding of the laws and principles that govern our universe. Topics will include sky coordinate systems, celestial mechanics including the basic laws of Newton and Kepler, our Solar System, stellar properties, galaxies and cosmology.

4579 OCEANOGRAPHY

Grade: 10,11,12

40 weeks/2 ½ meetings per week or

Exam: Local

20 weeks/5 meetings per week – ½ unit

Reading Level: medium

Offering: various

Prerequisites: Earth Science, Biology, and teacher recommendation.

Pre or Corequisite: Chemistry

This course will introduce students to the study of the oceans of the world. The Oceanography curriculum combines a study of two major areas: Geology – the study of the Earth's interior, surface, and processes that formed the rocks that make up the ocean basins and continents; and Marine Biology – the study of the plants, animals, and other organisms that live in the oceans. The Oceanography curriculum is intended to focus on the interrelationships of the above areas of science with the Earth's systems and processes. This class is intended to be an introduction into the many areas of Oceanography. Projects and presentations are a major part of this course. Independent learning is encouraged during research projects, and every student is expected to pull from their own personal interests.

4580 DISASTERS

Grade 10, 11, 12

40 weeks/ -3 meetings per week or

Exam; Local

20 weeks/ 5 meetings per week - 1/2 unit

Reading Level: Medium

Offering: various

Prerequisites: Earth Science, Biology and teacher recommendation

Pre or Corequisite: Chemistry

This course will examine the causes and consequences of natural and man-made disasters. This topic is timely and important as major disasters continually occur in our world. Students will analyze the impact disasters have on the planet by looking at historical and current catastrophes. They will explore how these events have shaped the earth, humans and the environment. Students will research the impact disasters have had on society, culture, as well as the economy and explore how science can prepare for the inevitable disaster. This course will incorporate "hands on" experience through laboratory work, research and the analysis of case studies. This course will help students develop skills in evaluating the causes and consequences of disaster events.

4581 FORENSICS

Grade: 10, 11, 12

40 weeks/2-3 meetings per week or

Exam: Local

20 weeks/5 meetings per week – ½ unit

Reading Level: Medium/ High

Offering: Various

Prerequisites: Earth Science, Biology and teacher recommendation

Pre or Corequisite: Chemistry

Forensics offers the interested science student a space to explore laboratory investigation. This course combines many disciplines of scientific study and applies them to solving crimes. Topics that will be discussed include: Laboratory safety, history of forensics, trace evidence, forensic biology, blood spatter, ballistics, and forensic chemistry. Laboratory work supplements the lectures. The course will culminate with a final project where students will analyze a simulated crime scene.

SOCIAL STUDIES

The Social Studies department of Orchard Park High school seeks to develop an awareness of individual worth and a spirit of cooperation within the larger society. The teaching of facts and skills are important, but far more so are the values learned from working with people, their monuments, ideas, mistakes and successes.

The social studies curriculum ties together all facets of learning by teaching the understanding of history as the collective memory of the human race. Social studies programs in the 9th, 10th, and 11th grades give the students a foundation in geography, global history and American studies. The 12th year program allows students to concentrate on government and economics. Students are encouraged to select from our elective offerings.

Social Studies Awards-

Humanitarian Distinction Award

Students that show a commitment to community by volunteering at various local not for profit agencies. Placements should help to instill an awareness of the multiple needs of the community while helping those that are less fortunate. Community service is non-paid work done by a person or group of people that benefits others that are in need. Community service can help any group of people in need such as underprivileged children, senior citizens, people with disabilities, English language learners, and more. It can also help animals, such as those at a shelter. Improving public places, such as a local park, historic building, or museum also qualifies as community service.

The award is not for school service but for those who help outside of the school who are less fortunate than you.

Gold Status- In four years the student completes 200 hours of community service.

Silver Status- In four years the student completes 100 hours of community service.

Bronze Status- In four years the student completes 50 hours of community service.

Advanced Placement History Scholar Award

This is an honor given to graduating seniors who demonstrate achievement in the social sciences. This award may be used as an example of excellence for the college application process.

This distinction is awarded to students who challenge themselves in social studies Advanced Placement courses. Each student must earn a four or five on

at least two Advanced Placement exams in social studies before his/her senior year and be enrolled in a social studies Advanced Placement class senior year:

Freshman year- Advanced World History 9

Sophomore year- Advanced Placement World History 10 or Advanced Placement European History

Junior year- Advanced Placement United States History

Senior year- Enrolled in an Advanced Placement U.S. Government and Politics, Advanced Placement Macroeconomics, and/or Advanced Placement European History

Social Science Distinction Award

This is an honor given to graduating seniors who demonstrate achievement in the social sciences. This award may be used as an example of excellence for the college application process.

It is a distinction awarded to students who challenge themselves in social studies courses. Each student must earn six full social studies credits and carry a course average of 85% or better in each of the courses with accompanying teacher recommendation.

Students must take all New York State required social studies courses which are as follows: (4 credits)

Freshman Year- Global History 9 Regents or Advanced World History 9

Sophomore Year- Global History 10 Regents, Advanced Placement World History 10 or Advanced Placement European History

Junior Year- United States History and Government or Advanced Placement United States History

Senior Year- Economics, Corporate Economics, or Advanced Placement Macroeconomics (these Senior year courses are ½ credit each)

Participation in Government or Advanced Placement U.S. Government and Politics

The grade appropriate elective courses offered in the social studies are as follows:

Freshman Year- Canadian Studies and History of Athletics

Sophomore Year- America's Visual Edge, Canadian Studies, History of Athletics, Crime or Punishment in Society

Junior Year- America's Visual Edge Canadian Studies, History of Athletics, Crime or Punishment in Society, Psychology, and Sociology

Senior Year- America's Visual Edge Canadian Studies, History of Athletics, Honors Seminar, Human Rights, Crime or Punishment in Society, Psychology, and Sociology

Social Studies Course Offerings

Course Number	Course Title	Credits	Grade Levels	Meetings Per Week	Reading Level	Exams
2615	Advanced World History 9	1H	9	5	H	L
2616	A.P. World History 10	1H	10	5	H	R/AP
2600	Global History 9 (R)	1	9	5	V	L
2610	Global History 10 (R)	1	10	5	V	R
2651	A.P. European History	1H	10,11,12	5	H	R/AP
2620	U.S. History & Government (R)	1	11	5	V	R
2624	A.P. United States History	1H	11	5	H	R/AP
2630	Economics, the Enterprise System, & Finance	½	12	5	V	L
2632	Corporate Economics	½	12	5	V	L
2636	A.P. Macro Economics	½H	12	5	H	L/AP
2660	Government	½	12	5	V	L
2665	A.P. U.S. Government & Politics	½H	12	5	H	L/AP

Social Studies Electives

2652	C.O.P.S. – Crime or Punishment in Society	½	10,11,12	5	V	L
2653	Psychology	½	10,11,12	5	V	L
2654	Sociology	½	10,11,12	5	V	L
0702	Honors Seminar in Humanities	½H	12	5	H	L
2678	Canadian Studies	½	9,10	5	V	L
0628	America's Visual Edge	½	10,11,12	5	M/H	L
2655	History of Athletics	½	9,10,11,12	5	V	L
2656	Human Rights	½	11,12	5	V	L

Social Studies Curriculum Sequence

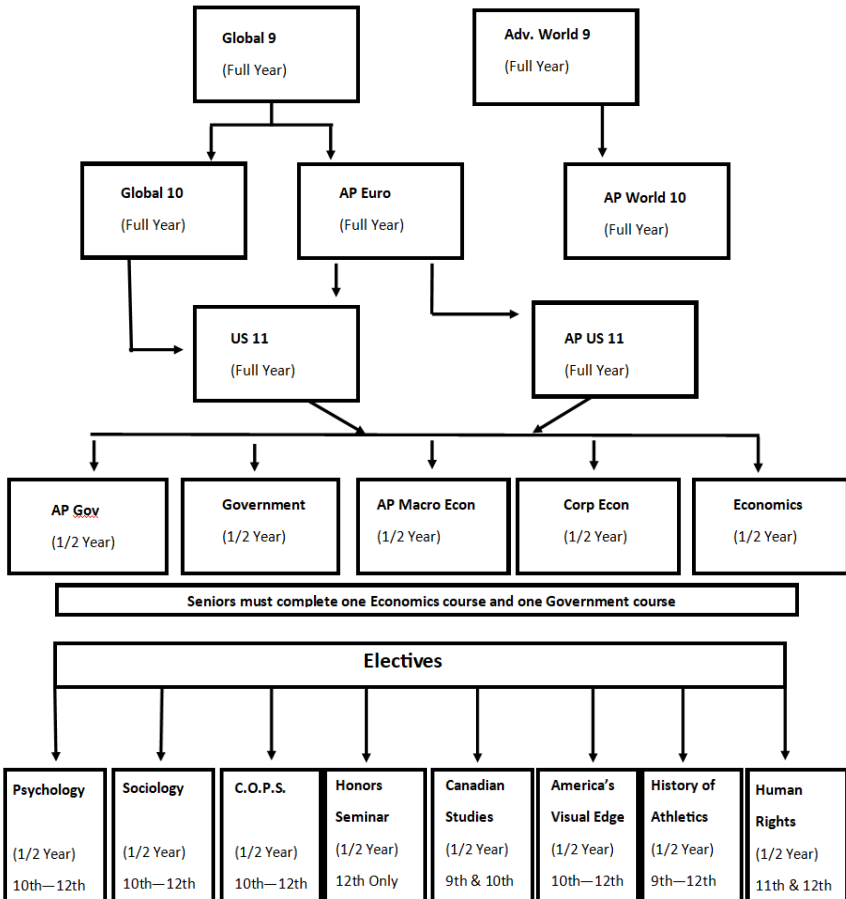
- A. Four (4) specific credits of social studies are required for graduation. One (1) credit per grade level (9th, 10th, 11th) plus $\frac{1}{2}$ credit each for economics and government in the senior year. Students are eligible to work beyond these requirements by selecting social studies elective courses.
- B. Course descriptions, prerequisites and grade level requirements are listed for each course. For a reference see social studies flowchart.

Social Studies Procedures for Course Failures

- 1.) Semester Courses are repeated in their entirety.
- 2.) Global 9: Either retake the course in summer school or repeat the course during the next school year.
- 3.) Global 10/U.S. 11:
 - A.) Retake and pass the course as well as the Regents Exam in summer school.
 - B.) Take Global 10/U.S. 11 in the fall and pass the Midterm/Regents Exam in January. The student must have a passing average (65%) to be considered for this option by the current teacher of record.

Social Studies Course Descriptions

Social Studies FlowChart



2615 ADVANCED WORLD HISTORY 9

Grade: 9 40 weeks/5 meetings per week - 1H unit

Exam: local Offering: year long

Reading Level: high

Prerequisites: Middle school teacher recommendation, entrance exam, and summer reading assignment.

Advanced World History is the first year in a two year course geared to the above average student, who is highly motivated towards the study of World History. In addition to covering the Regents Global History syllabus, students will be expected to master advanced Afro-EuroAsian primary readings, essay writing as well as independently interpret and analyze historical world events. The course will be organized chronologically. Beginning with global prehistory in ninth grade, students will cover major historical topics mandated by the College Board and will conclude with the 15th Century C.E. Interested students should take serious consideration of course requirements prior to enrollment. This course will not align with the Regents' classes at grade level until the end of the second year. Furthermore, students must be able to take independent notes from class lectures and actively participate in seminar discussions. Students must have a pre-existing high level of reading and writing skills prior to the start of class.

2616 ADVANCED PLACEMENT WORLD HISTORY 10

Grade: 10 40 weeks/5 meetings per week - 1H unit

Exam: Regents and AP Offering: year long

Reading Level: high

Prerequisite: Advanced World History 9

AP World History is the second year in a two year course. The course will continue to cover the Regents Global History syllabus while mastering the Advanced Placement curriculum at the same time. The course will be organized chronologically. Beginning with the 15th century, students will cover major historical topics mandated by the College Board and will conclude at modern times. Interested students should take serious consideration of course requirements prior to enrollment. Furthermore, students must be able to take independent notes from class lectures and actively participate in seminar discussions. Students must have a pre-existing high level of reading and writing skills prior to the start of class.

2600 GLOBAL HISTORY 9 (REGENTS)

Grade: 9 40 weeks/5 meetings per week - 1 unit

Exam: local Offering: year long

Reading Level: various

Prerequisite: none

Global History 9 is designed to be the course of study for most freshmen at Orchard Park High School. The major goal of this course is to increase global understanding while incorporating the Regents Learning Standards. Regional and historical approaches are explored with units that include Asia, Africa and the Middle East. Students learn the geography, economy, political systems, history and culture of each region. Students are expected to master reading, map work, essay writing, group and individual projects as well as media research. A local department final examination is given at the end of the course.

2610 GLOBAL HISTORY 10

Grade: 10 40 weeks/5 meetings per week - 1 unit

Exam: Regents Offering: year long

Reading Level: various

Prerequisite: Global History 9

Global History 10 introduces the broad spectrum of intellectual, social, political and religious life in Europe, Russia and Latin America. Concerned especially with cultural history, Global 10 explores concepts such as the Renaissance, reformation, revolution and industrialization. This course will teach skills such as essay writing, vocal participation and analysis of primary source materials. Students will also learn to identify major trends, understand the importance of current events and be able to relate and connect various parts of Global History with the world. Students will take the New York State Global Studies and Geography Regents Exam that assesses content from Global History 9 and Global History 10.

2651 ADVANCED PLACEMENT EUROPEAN HISTORY

Grade: 10, 11, 12

40 weeks/5 meetings per week – 1H unit

Exam: Regents and/or Advanced Placement European History

Reading Level: high

Offering: year long

Prerequisite: teacher recommendation

AP European History serves as both a College Board Advanced Placement course and the second class of a two-year New York State Global Studies curriculum. The focus of the course is on European history from the Renaissance to present day, but important global topics will also be covered in preparation for the Regents Exam. In addition to providing a basic narrative of events and movements, the goals of AP Euro are to develop an understanding of principal historical themes, an ability to analyze historical evidence and historical interpretation, and an ability to express historical understanding in writing. Interested students should be highly-motivated and prepared for a more demanding class. At the end of the course, students will take both the AP European History Exam and the New York State Global Studies and Geography Regents Exam. Upperclassmen may take AP Euro as an elective and will not be required to retake the Regents. Students will complete a summer reading and writing assignment.

2620 UNITED STATES HISTORY AND GOVERNMENT

Grade: 11,12

40 weeks/5 meetings per week - 1 unit

Exam: Regents

Offering: year long

Reading Level: various

Prerequisites: 9th and 10th grade Social Studies

United States History and Government is designed to be the course of study for most of the juniors at Orchard Park High School. This course presents key areas of conceptual analysis of American life, geography, constitutional foundations, nationalism and sectionalism, industrialization, the reform, prosperity and depression and the age of global crisis. This course uses both historical illustrations and current insights to provide students with an awareness of America's varied history and culture. The course emphasizes rights and responsibilities of American citizens. This course will be organized chronologically with emphasis on the time period 1865 to the present. All students will take the United States History and Government Regents examination.

2624 ADVANCED PLACEMENT UNITED STATES HISTORY

Grade: 11,12

40 weeks/5 meetings per week - 1H unit

Exam: Regents and AP U.S. History exams

Reading Level: high

Offering: year long

Prerequisites: Global History 10 and Social Studies teacher recommendation and successful completion of an AP prerequisite assignment during the spring semester prior to taking AP US History. AP EURO/ AP World students are NOT required to complete the AP 11 prerequisite assignment.

Advanced Placement United States History is a course geared to the above-average student who is highly motivated toward study in American history and the social sciences. Emphasis is placed on critical and evaluative thinking skills, essay writing, interpretation of primary documents, and historiography. Students will get practice developing the following content-driven skills: Crafting Historical Arguments from Historical Evidence (including Historical Argumentation and Appropriate Use of Relevant Historical Evidence), Chronological Reasoning (including Historical Causation, Patterns of Continuity and Change over Time, and Periodization), Comparison and Contextualization, and Historical Interpretation and Synthesis. In addition, class activities and assignments will address the following academic skills: reading for comprehension and recall, improving study skills in preparation for assessments, improving formal writing skills, improving public speaking skills in classroom seminar activities, and improving skills of map reading and interpretation.

To provide students with an introduction to this aspect of historical study, several units will include readings from Charles Beard, Howard Zinn, Edmund Morgan, Bernard Bailyn, and Eric Foner. These authors help students to recognize how historical interpretations change over time, and examine how emerging trends can influence the process of historical inquiry. The study of history also requires primary source analysis. For this reason, most units in this course provide students with the opportunity to read and interpret a diverse selection of primary source materials.

Students will take both the U.S. History and Government Regents exam and the Advanced Placement exam. All students will be required to complete a summer reading and writing assignment that will be posted on the Orchard Park High School website.

SOCIAL STUDIES SENIOR ELECTIVE PROGRAM

All students are required to successfully complete one semester of government and one semester of economics before they graduate.

2630 ECONOMICS, THE ENTERPRISE SYSTEM, & FINANCE

Grade: 12 20 weeks/5 meetings per week – ½ unit

Exam: local Offering: by semester

Reading Level: various

Prerequisites: U.S. History and Government and/or teacher recommendation.

Students in this course will be able to (1) understand the reasons for the study of economics including a comparison of economic systems and the study of the laws of supply and demand; (2) understand the roles of the various elements of the economy including consumers, business, labor, agriculture, and government (microeconomics); (3) understand how the various components of the economy work together in the total economic picture (macroeconomics); and (4) understand the major components of the global economy, especially in its relationship to international trade. If this course cannot fit into the student's schedule, Corporate Economics (2632) will automatically be substituted. A local final examination is given at the end of the course.

2632 CORPORATE ECONOMICS

Grade: 12 20 weeks / 5 meetings per week – ½ unit

Exam: local Offering: by semester

Reading Level: various

Prerequisites: US History and Government and/or teacher recommendation.

This course puts economic theory to practical use by action. Corporate Economics combines lectures with hands-on projects. Students form a real company that will demonstrate microeconomics. They will invest in the stock market with hypothetical money. There are several computer simulations done in cooperative groups. Economic principles are studied through many different group activities. Junior Achievement of Western New York supports this course with scholarship programs and business consultants. If this course cannot fit into the student's schedule, Economics (2630) will automatically be substituted. A local final examination is given at the end of the course.

2636 AP MACROECONOMICS

Grade: 12 40 weeks/2-3 meetings per week – ½H unit

Exam: local Offering: year long

Reading Level: high

Prerequisites: Regents Exam in U.S. History and Government and teacher recommendation.

This course emphasizes the study of modern problems and issues governing the allocation of scarce productive resources among alternative uses using both microeconomic and macroeconomic principles, theories and analysis.

This course is designed primarily for college bound seniors interested in an in-depth understanding of economics and for students interested in majoring in business, law, education, government, and social sciences in college.

Students will take the AP Economics Exam.

2660 GOVERNMENT

Grade: 12 20 weeks/5 meetings per week - ½ unit

Exam: local (two projects) Offering: by semester

Reading Level: various

Prerequisites: US History and Government and/or teacher recommendation.

The primary goals of this course are to understand the nature of constitutional principles, the citizen base of politics, governmental decision-making, the policy-making process, and civil rights and liberties. This course will attempt to deal with government in a practical manner and will provide a firm foundation of content and skills. In lieu of a local final examination, two mandatory projects must be satisfactorily completed; a public policy research project and four government field observations with explanation and analysis of each. Government teachers will provide the options and requirements for each project. Both projects must be completed during the semester in which the student is registered for government. Completion of both projects is required for passage of the course.

2665 AP U.S. GOVERNMENT AND POLITICS

Grade: 12 40 weeks/2-3 meetings per week – ½H unit

Exam: local Offering: year long

Reading Level: high

Prerequisites: Regents Exam in U.S. History and Government and teacher recommendation.

This course is intended to meet the academic needs and interests of the highly motivated student who has a particular desire to explore (in depth) the workings of the American Government system. The course will meet all the goals, and mandatory projects, of the government class (course 2660).

In addition, the program will utilize seminar techniques, emphasize the use of political readings and facilitate government based participation opportunities. Students will take the AP U.S. Government and Politics Exam in May. There will be a mandatory summer reading assignment with an assessment scheduled the second week of school.

SOCIAL STUDIES ELECTIVES

Students are encouraged to select from the following electives. These elective courses were developed to meet the Social Studies interests of our students. They offer a broad variety of content, course requirements and levels of difficulty. All students would benefit from enrollment in one or more of these courses. Credit for these electives cannot be substituted for failure in required courses.

2652 C.O.P.S. – CRIME OR PUNISHMENT IN SOCIETY

Grade: 10, 11, 12 20 weeks/5 meetings per week – ½ unit

Exam: local (Class Project) Offering: both semesters

Reading Level: various

Prerequisites: 10th grade placement with social studies teacher recommendation only, 11th or 12th grade placement and/or teacher recommendation.

C.O.P.S. is a course intended to provide an understanding of criminal justice as it applies to the U.S. legal system. An emphasis will also be placed on forms of law that are seen in everyday life. Topics include organization of the court system, civil law as compared to criminal law, crimes and the penal system, and criminal and juvenile justice. Teaching techniques will include role playing, thought questions, case studies, critical video analysis/ discussions, simulations, mock trials, and guest speakers.

2653 PSYCHOLOGY

Grade: 11, 12

20 weeks/5 meetings per week – ½ unit

Exam: local

Offering: by semester

Reading Level: various

Prerequisites: 11th or 12th grade placement and/or teacher recommendation.

Psychology is designed for all students interested in understanding behavior.

A general introduction to the principles and theories of psychology is presented with special emphasis on social psychology. Major requirements include a book review and/or research papers, experiments, and small group presentations. Class participation is an important component of the course. A local final examination and/or final project is given at the end of the course.

0628 AMERICA'S VISUAL EDGE

Grade 10, 11, 12

20 weeks/5 meetings per week- ½ unit

Exam: Local

Offering: by semester

Reading Level: various

Prerequisites: none

Body art, tattoos, and graffiti are cutting edge artistic processes...but are they?

All of them have ancient origins. Find out how American art of the 21st

century drives our economy, our politics, and our country while still

maintaining deep roots. Plus, explore how the American visual experience is

exploited as propaganda by those in power who would have us think and act

as they intend. Participants may take this course for credit in either Art or

Social Studies, but not for both.

2654 SOCIOLOGY

Grade: 10, 11, 12

20 weeks/5 meetings per week – ½ unit

Exam: Local

Offering: by semester

Reading Level: various

Prerequisites: 10th grade placement with social studies teacher recommendation only, 11th or 12th grade placement and/or teacher recommendation.

Sociology is an introductory seminar to the science of human interaction with emphasis on concepts of social organization and structural dynamics aimed at understanding human behavior; the role of culture, conflict and tensions. A local final examination is given at the end of the course.

2678 CANADIAN STUDIES

Grade: 9, 10

20 weeks/5 meetings per week – ½ unit

Exam: local

Offering: by semester

Reading Level: Various

Prerequisite: Teacher recommendation

Ties between Buffalo and Canada are long-standing and varied. Canada is our “neighbor to the north” and has many connections to WNY. Growing integration of the U.S. and Canadian economies, common environmental concerns including pollution of common waterways and airspace; and long-standing social and cultural ties are significant reasons for studying the Canadian-American relationship. An array of topics including the social aspects of sports rivalry, cross-border trade under NAFTA, and the history of Old Fort Niagara and the War of 1812 will be discussed. A local final examination and/or final project will be given at the end of the course.

2655 HISTORY OF ATHLETICS

Grade: 9, 10, 11, 12

20 weeks/5 meetings per week – ½ unit

Exam: local

Offering: by semester

Reading Level: Various

Prerequisite: Teacher recommendation

We examine the historical development of sports throughout the world from a societal and cultural viewpoint. The course provides opportunities to examine the relationship between sports and national pride, sports and politics, sports and the economy, sports and social change, sports and gender; and sports and global expansion. Course content includes lectures, secondary readings, primary source readings, and films. We will examine the gradual development of a world sports culture and the changing attitudes towards sports. Emphasis will be given to early sports culture, including blood sports, and particularly to the creation and development of baseball, college football, and basketball.

0702 HONORS SEMINAR IN HUMANITIES

Grade: 12 20 weeks/5 meetings per week– ½H unit

Exam: local Offering: by semester

Reading Level: high

Prerequisites: Successful completion of English 11 and U.S. History, interview with instructors.

This course will offer an in-depth, interdisciplinary approach to cultural/political themes, major historical periods, and/or geographic areas. Extensive writing in a variety of modes, active class participation, and individual research are central to this course. Highly self-motivated, college-bound seniors with intellectual curiosity, creativity, initiative, and writing talent are encouraged to apply. Students are selected through teacher and counselor recommendation, academic achievement, and interviews with the seminar instructors who make the final selection of participants. Participants may take this seminar for credit in either English or Social Studies, but not both.

2656 HUMAN RIGHTS

Grade: 11, 12 20 weeks/5 meetings per week – ½ unit

Exam: local Offering: by semester

Reading Level: various

Prerequisites: 11th or 12th grade placement and/or teacher recommendation.

In this course, students will identify universal human rights—the freedoms, protections, and opportunities that all human beings are entitled to—and will examine how our understanding of those rights has evolved over time.

They will also explore the ways and instances in which those human rights have been violated, both in the past and in contemporary society, in the United States and around the world. Finally, students will identify actions that have been and are being taken to protect, defend, and extend human rights around the world, and will develop their own action project to advance, in whatever way they choose, that work.

SPECIAL PROGRAMS

0901 INDEPENDENT SCHOOL SERVICE

Grade: 9,10,11,12

Exam: none

Reading Level: various

Offering: year-long/both semesters

Prerequisite: Teacher recommendation

Independent School Service is a program which enables a student to serve the school system. Many students are now learning skills and getting useful experience while providing valuable aid to the school system. Help in Media Center, A.V., custodial service, office, laboratory, tutoring and other areas will be considered.

0900 INDEPENDENT STUDY

Grade: 9,10,11,12

Exam: project

Reading Level: various

Prerequisite: Teacher recommendation

Independent Study credit may be granted for approved courses of study in the curriculum. Each situation will be handled individually. A contract will be drawn up stipulating the work to be done and the time required. This contract will be cooperatively made up by the student, subject teacher, and counselor, and must have prior approval by the student's house principal and parent. Credit will be given if a student meets the stipulations of the contract. A student who uses Independent Study as one of the five courses for the required minimum schedule (5 classes plus P.E.) must be assigned daily to a supervised area.

0930 FRESHMAN BOOST

Grade: 9

20 weeks/1 meeting per 6 day cycle

Exam: local evaluation

Offering: Semester 1

Reading Level: various

Prerequisite: Ninth grade enrollment

Ninth grade students are required to participate in an instructional guidance program which attempts to provide every opportunity for a smooth transition from middle school to high school. Topics include orientation to the high school building and key personnel, careers, values, and academic planning.

1000 RESOURCE ROOM 9, 10
1050 RESOURCE ROOM 11, 12

Grade: 9, 10, 11, 12

40 weeks/5 meetings per week

Exam: none

Offering: year long

Reading Level: various

Prerequisite: CSE recommendation

Resource room assists students with special educational needs. A small group setting with individualized programming and attention is provided on a daily basis, in conjunction with the regular curriculum. Specialized supplementary instruction in organization skills, reading, the use of assistive technology devices and/or the use of compensatory strategies is the focus of the Resource Room.

NUMERACY SUPPORT LAB

Grade: 9, 10, 11, 12

40 weeks/3 meetings per 6 day cycle

Exam: none

Offering: year long

Reading Level: various

Prerequisite: Teacher or guidance counselor recommendation

Within a structured classroom setting, students will receive assistance and guidance with math assignments. Support is offered for students enrolled in Fundamentals of Algebra, Algebra 1, Algebra 2/Trigonometry, and Geometry B.

LITERACY SUPPORT LAB

Grade: 9, 10, 11, 12

40 weeks/3 meetings per 6 day cycle

Exam: none

Offering: year long

Reading Level: various

Prerequisite: Teacher or guidance counselor recommendation

Within a structured classroom setting, students will receive assistance and guidance with writing and reading comprehension assignments.

STUDENT SUPPORT LAB

Grade: 9, 10, 11, 12

40 weeks/3 meetings per 6 day cycle

Exam: none

Offering: year long

Reading Level: various

Prerequisite: Teacher or guidance counselor recommendation

Within a structured classroom setting, students will receive assistance and guidance with assignments and organizational skills.

1135 SPECIAL CLASSES (CSE Determined)

Grade: 9,10,11,12 40 weeks/5 meetings. per week – 1 unit

Exam: local/Regents Offering: year long

Reading Level: Gr. 5 and above

Prerequisite: CSE recommendation

Special Classes are provided for students needing special educational attention in a small group setting to address their academic needs in programs within the regular curriculum. The classes provide instruction in the basic academic subjects: English, social studies, science and math.

1140 VOCATIONAL LIFE SKILLS SPECIAL CLASS

Ages: 14 – 21 40 weeks/5 meetings per week

Exam: Curriculum based Offering: year long

Reading Level: Grade 4 & below

Prerequisite: CSE recommendation

The Vocational Life Skills program provides instruction in the areas of math, reading, social studies and science as they apply to real life situations. Students advance through several levels of curriculum at their own pace. Through a community based work experience and/or B.O.C.E.S., students receive vocational training in multiple occupational areas.

TECHNOLOGY EDUCATION

Technology education curriculum makes science, technology engineering and mathematics (STEM) relevant for students by engaging in hands-on activities, real-world projects. Students understand how the skills they are learning in the classroom can be applied in everyday life. This style of activity/project based learning increases student motivation and higher-order thinking, which results in higher academic success.

Project-based instructional strategies encourage teamwork, logical thinking, leadership, problem solving, time management, data collection, research, multimedia communication and public speaking. This style of learning engages the class and adds relevance and rigor to the learning process. The culmination of these experiences will help our students with college and career decisions. To help with the career decisions and planning, courses are offered in a variety of areas. These areas include career exploration, materials processing, energy and transportation, engineering, communications and computers.

Students pursuing an Advanced Regents diploma may choose to complete 1 unit of World Language AND one of the 5-unit alternative sequences above. Please see Graduation Requirements, page 4.

PLEASE NOTE: In order to meet the requests of all students, the Technology Education department has adopted a revolving schedule with a two-year cycle. This means not all courses are offered every year. Refer to the course offerings pages to view and plan ahead.

PROJECT LEAD THE WAY (PLTW)

Students that are interested in pursuing further studies and/or a career in engineering are strongly encouraged to consider enrolling in one or more Project Lead The Way courses. The Technology Education department offers several PLTW courses each year. Project Lead The Way is a non-profit organization dedicated to STEM education. They have over 12,200 partner schools in all 50 states and provide students a transformative learning experience to empower students to thrive in an evolving world.

In addition, students have the opportunity to earn college credits through a network of partner universities across the country. Credits are awarded based on students' grades in the eligible PLTW course as well as the score on the End-of-Course exam. To qualify, a student must have an 85% or higher class average, and earn the minimum score on the End-of-Course exam for the PLTW course they are enrolled in. If qualified, students can submit an application and fee to one of the partner universities. PLTW credit allows students to save thousands of dollars in college tuition and/or graduate early!

All students enrolled in a PLTW course must take the End-of-Course exam, but the application and payment for college credit is optional.

Technology Education Course Offerings 2024-2025

Course Number	Course Title	Credits	Grade Level	Meetings Per Week	Reading Level	Exams
+ 0880	Advanced DDP - PLTW**	1H	9, 10, 11, 12	5	H	L
3764	AP Computer Science (APCS-A)	1H	11, 12	5	V	L
3765	AP Computer Science Principles (APCS-P)	1H	10, 11, 12	5	V	L
0853	Architectural Modeling	1	11, 12	5	V	L
0820	Basic Auto Maintenance	1/2	10, 11, 12	5	V	L
0844	Computer Aided Drawing (CAD)	1/2	10, 11, 12	5	V	L
0845	Computer Integrated Manufacturing (CIM) - PLTW **	1	10, 11, 12	5	V	L
3761	Computer Programming I	1/2	9, 10, 11, 12	5	V	L
3762	Computer Programming II	1/2	9, 10, 11, 12	5	V	L
3763	Computer Programming C++	1	10, 11, 12	5	V	L
0811	Construction Technology	1	9, 10, 11, 12	5	V	L
+ 0864	Design and Drawing for Production (DDP)	1	9, 10, 11, 12	5	V	L
0841	Desktop and Mobile Applications	1/2	9, 10, 11, 12	5	V	L
0881	Environmental Sustainability - PLTW	1	10, 11, 12	5	V	L
0812	Furniture Production	1/2	10, 11, 12	5	V	L
0815	Home Maintenance and Repair	1/2	9, 10, 11, 12	5	V	L
0700	Media Productions	1	9, 10, 11, 12	5	V	L
0830	Photography I	1/2	9, 10, 11, 12	5	V	L
0831	Photography II	1/2	9, 10, 11, 12	5	V	L
0865	Principles of Engineering	1	10, 11, 12	5	V	L
0821	Small Engine Technology	1/2	9, 10, 11, 12	5	V	L
0810	Woodworking Technology	1/2	9, 10, 11, 12	5	V	L

+ Courses with this sign can be applied to the Art/Music requirement for graduation.

** Courses with this sign may provide eligible students with college credit.

Technology Education Course Offerings 2025-2026

Course Number	Course Title	Credits	Grade Level	Meetings Per Week	Reading Level	Exams
+ 0880	Advanced DDP - PLTW**	1H	9, 10, 11, 12	5	H	L
0882	Aerospace Engineering - PLTW	1	10, 11, 12	5	V	L
3764	AP Computer Science (APCS-A)	1H	11, 12	5	V	L
3765	AP Computer Science Principles (APCS-P)	1H	10, 11, 12	5	V	L
0820	Basic Auto Maintenance	1/2	10, 11, 12	5	V	L
0852	Civil Engineering and Architecture (CEA) - PLTW**	1	10, 11, 12	5	V	L
3761	Computer Programming I	1/2	9, 10, 11, 12	5	V	L
3762	Computer Programming II	1/2	9, 10, 11, 12	5	V	L
3763	Computer Programming C++	1	10, 11, 12	5	V	L
0811	Construction Technology	1	9, 10, 11, 12	5	V	L
+ 0864	Design and Drawing for Production (DDP)	1	9, 10, 11, 12	5	V	L
0841	Desktop and Mobile Applications	1/2	9, 10, 11, 12	5	V	L
0832	Digital Imagery and Photoshop	1/2	9, 10, 11, 12	5	V	L
0801	Entrepreneurship in Technology	1	10, 11, 12	5	V	L
0815	Home Maintenance and Repair	1/2	9, 10, 11, 12	5	V	L
0700	Media Productions	1	9, 10, 11, 12	5	V	L
0830	Photography I	1/2	9, 10, 11, 12	5	V	L
0865	Principles of Engineering (POE) - PLTW**	1	10, 11, 12	5	V	L
0821	Small Engine Technology	1/2	9, 10, 11, 12	5	V	L
+ 0850	Technical Drawing	1/2	9, 10, 11, 12	5	V	L
0885	Remote Control Flight & Drones	1	9, 10, 11, 12	5	V	L
0810	Woodworking Technology	1/2	9, 10, 11, 12	5	V	L

+ Courses with this sign can be applied to the Art/Music requirement for graduation.

** Courses with this sign may provide eligible students with college credit.

Technology Education Course Descriptions

0880 ADVANCED DDP - PLTW

Grade: 9, 10, 11, 12 40 weeks/5 meetings per week - 1H unit
Exam: PLTW End-of-Course Offering: year long
Reading Level: high

Prerequisite: Completion of or enrollment in Algebra I

Advanced Design and Drawing for Production is a high school engineering course in the PLTW Engineering Program. Students are introduced to the engineering design process, applying math, science, and engineering standards to identify and design solutions to a variety of real problems. Students progress from completing structured activities to solving open-ended projects and problems that require them to plan, document, communicate, and develop other professional skills. Students develop skills in technical representation and documentation especially through 3D computer modeling using a Computer Aided Design (CAD) application to produce 3D-printed prototypes. Course credit for Advanced DDP may be applied to the Art / Music requirement for graduation.

NOTE: Students who meet minimum eligible scores on the End-of-Course exam and class average can apply for 3 college credits through RIT, or one of PLTW's other partner universities.

0882 AEROSPACE ENGINEERING (AE) - PLTW

Grade: 10, 11, 12 40 weeks/5 meetings per week - 1 unit
Exam: PLTW End-of-Course Offering: year long
Reading Level: high

Prerequisite: Advanced DDP - PLTW

Aerospace Engineering (AE) is one of the specialization courses in the Project Lead the Way (PLTW) Engineering program. AE ignites students' learning in the fundamentals of atmospheric and space flight. Students explore the fundamentals of flight in air and space as they bring the concepts to life by designing and testing components related to flight such as an airfoil, propulsion system, and a rocket. They learn orbital mechanics concepts and apply these by creating models using industry-standard software. Students simulate a progression of operations to explore a planet, including creating a map of the terrain with a model satellite and using the map to execute a mission using an autonomous robot.

3764 AP COMPUTER SCIENCE (APCS-A)

Grade: 11, 12

40 weeks/5 meetings per week - 1H unit

Exam: local/AP

Offering: year long

Math Level: high

Prerequisite: Computer Programming II OR **Corequisites:** Calculus BC and teacher recommendation

This course is an advanced study of Computer Science, programming methodology, data abstraction, and procedural thinking. The focus will be Object-Oriented Programming as it pertains to the College Board's requirements in the programming language JAVA.

3765 AP COMPUTER SCIENCE PRINCIPLES (APCS-P)

Grades 10, 11, 12

40 weeks/5 meetings per week - 1H unit

Exam: local/AP

Offering: year long

Level: medium

Prerequisite: Programming 1 OR teacher recommendation

Students will develop computational thinking skills... such as using tools to analyze and study data and working with large data sets to analyze, visualize, and draw conclusions from trends. The course engages students in the creative aspects of the field by allowing them to develop computational artifacts (programs and/or apps) based on their interests. Students will also develop effective communication and collaboration skills by working individually and collaboratively to solve problems...and write significant projects about the impacts these solutions could have on their community, society, and the world. The AP assessment includes a substantial computer project, as well as the written multiple choice exam in May. Class time is planned to allow for all projects to be completed in class.

0853 ARCHITECTURAL MODELING

Grade: 11, 12

40 weeks/5 meetings per week – 1 unit

Exam: local

Offering: year long

Reading Level: various

Prerequisites: Technical Drawing, CAD, DDP, or Advanced DDP.

Architectural Model Making is designed for the advanced student who is interested in architectural drawing and design and is considering post high school study in building construction, architecture or architectural drawing or has a high vocational or a vocational interest in the subject. Students will individually draw and construct scale structural models, a scale presentation drawing, and an extensive model designed and constructed as a group.

0820 BASIC AUTO MAINTENANCE

Grade: 10, 11, 12

20 weeks/5 meetings per week – ½ unit

Exam: local

Offering: by semester

Reading Level: various

Prerequisite: none

This course is designed to teach students the foundational systems and basic functions of a modern automobile, and typical maintenance that is associated with these systems. Everyday simple items such as proper tire care and service, wipers, headlights, bulbs, fluid checks, car care, interior and exterior detailing and many more common day-to-day maintenance problems will be covered in this hands-on program.

0852 CIVIL ENGINEERING AND ARCHITECTURE (CEA) - PLTW

Grade: 10, 11, 12

40 weeks/5 meetings per week - 1 unit

Exam: PLTW End-of-Course

Offering: year long

Reading Level: high

Prerequisite: Advanced DDP - PLTW

Civil Engineering and Architecture (CEA) is one of the specialization courses in the Project Lead the Way (PLTW) engineering program. In CEA, students are introduced to important aspects of building and site design and development. They apply math, science, and standard engineering practices to design both residential and commercial projects and document their work using 3D architectural design software. Utilizing the activity-, and project-based learning, students will learn skills in cost and efficiency analysis, services and utilities, commercial and residential building systems, site considerations, and use of current 3D architectural design and modeling software to represent and communicate solutions. The course will culminate with students developing a preliminary design for a small commercial facility, and delivering a formal presentation of this final team design project.

NOTE: Students who meet minimum eligible scores on the End-of-Course exam and class average can apply for 3 college credits through RIT, or one of PLTW's other partner universities.

0844 COMPUTER AIDED DRAWING (CAD)

Grade: 10, 11, 12

20 weeks/5 meetings per week - ½ unit

Exam: local

Offering: by semester

Reading Level: various

Prerequisite: none

This STEM course is intended for students who are interested in further expanding knowledge and skills in computer aided design (CAD). During this class, students will engage in many aspects of beginning engineering. Solidworks is the solid modeling software utilized to draft 3D machine parts,

animated computer models, create ANSI/ISO standard drawing sheets, assemblies and animations. Students will also output drawings to CNC machines such as a 3D printer or laser engraver.

0845 COMPUTER INTEGRATED MANUFACTURING (CIM) - PLTW

Grade: 10, 11, 12

40 weeks/5 meetings per week- 1 unit

Exam: local

Offering: year long

Reading level: various

Prerequisite: Advanced DDP - PLTW.

Computer Integrated Manufacturing (CIM) is a STEM course which starts from the ground up by teaching basic robotics and then microprocessors and programming. Students learn about logic and analogue inputs and control circuits. From this experience, the students model, design, test and fabricate a computer-controlled machine. CAD models of the machine parts are used by CAM software, such as LaserWorks or MasterCAM used to generate numerical code that a CNC laser or router needs to fabricate the parts. Some of the parts may be fabricated from CAD models utilizing a 3-D printer. The parts are used to construct the microprocessor-controlled project. This real life experience teaches teamwork, logical thinking and problem solving skills that are essential for the student interested in engineering.

NOTE: Students who meet minimum eligible scores on the End-of-Course exam and class average can apply for 3 college credits through RIT, or one of PLTW's other partner universities.

3761 COMPUTER PROGRAMMING I

Grade: 9,10,11,12

20 weeks/5 meetings per week – ½ unit

Exam: local

Offering: one semester

Math Level: low/medium

Prerequisite: Completion of or enrollment in Algebra I

Computer Programming I is an introductory course designed to provide success for all students to become familiar with Computer Science. It consists of writing programs using common programming elements related to the problem-solving process. Emphasis is placed on problem solving, communication, collaboration, creation, revisiting and refinement. Class time is planned to allow for all projects to be done in class.

3762 COMPUTER PROGRAMMING II

Grade: 9,10,11,12

20 weeks/5 meetings per week - ½ unit

Exam: local

Offering: by semester

Math Level: average/high

Prerequisite: Computer Programming I

Computer Programming II will continue to develop problem-solving skills using programming skills and techniques at a more advanced level than in Programming I. Topics also include introductory material on the use of the Java language.

3763 COMPUTER PROGRAMMING IN C++

Grade: 10, 11, 12

40 weeks/5 meetings per week - 1 unit

Exam: local

Offering: year long

Math Level: medium

Prerequisite: Computer Programming II OR **Co-requisites:** Calculus BC and teacher recommendation

Computer Programming in C++ is a study in the C++ programming language emphasizing an Object-Oriented approach that includes advanced data structures, algorithms, and in-depth modification of pre-written classes. Unique projects also are explored and investigated depending on student interest. This is a local course designed to accommodate all student interests and levels of backgrounds.

0811 CONSTRUCTION TECHNOLOGY

Grade: 9, 10, 11, 12

40 weeks/5 meetings per week – 1 unit

Exam: local

Offering: year long

Reading Level: various

Prerequisite: none

Construction Technology is a program in the construction of residential buildings. Students will experience the planning and construction of structures using a variety of materials, tools and equipment. Activities will include building full size millwork structures. Students will learn to work with blueprints as well as listing and estimating materials. Students will also explore career possibilities in the residential construction industry. Prior machine and tool use will help to benefit a student in this class.

0864 DRAWING & DESIGN FOR PRODUCTION (DDP)

Grade: 9, 10, 11, 12

40 weeks/5 meetings per week – 1 unit

Exam: local

Offering: year long

Reading Level: various

Prerequisites: none

This is the first in a series of STEM courses for students interested in engineering and is tailored to a student wanting to design, test, and fabricate group and independent projects they have sketched and drawn using computer design software. Materials such as wood, metal, ceramics, paper and plastic may be used to construct lab based projects using hand and power tools. Hands-on projects may include engineering challenges, structural design, graphic design, and materials processing. By applying creative problem solving and engineering design processes, students will prepare their projects for testing, evaluation, and/or competitions. Course credit for DDP may be applied to the Art / Music requirement for graduation.

0841 DESKTOP AND MOBILE APPLICATIONS

Grades: 9, 10, 11, 12

20 weeks/5 meetings per week – ½ unit

Exam: local

Offering: by semester

Reading Level: various

Prerequisites: none

The main emphasis of the course is on digital skills that allow for easier communication, collaboration, creativity, and critical thinking through technology. Students will have an opportunity to learn basic document, spreadsheet, and presentation software as well as mobile application development for smartphones. Software utilized in this course includes Google's Applied Digital Skills Workspace Applications, Adobe products such as Photoshop and Illustrator, and MIT App Inventor.

0832 DIGITAL IMAGERY/PHOTOSHOP

Grade: 9, 10, 11, 12

20 weeks/5 meetings per week – ½ unit

Exam: local

Offering: by semester

Reading Level: various

Prerequisite: none

Students will learn how to create and apply digital imagery and photography through the practice of arranging the visual elements of a project just like a graphic designer. Students will edit, enhance, combine and manipulate images captured from digital cameras. Students will use digital cameras, computers, scanners, printers and Adobe Suite software as they learn how to produce digitally based visual images. Emphasis will be placed on how to plan and produce digital photographic compositions that demonstrate an understanding of light, design, color, visual impact and the use of technology in this rapidly expanding field.

0801 ENTREPRENEURSHIP IN TECHNOLOGY

Grade: 10, 11, 12 40 weeks/5 meetings per week – 1 unit

Exam: local Offering: year long

Reading Level: various

Prerequisite: DDP or Advanced DDP

Students will apply entrepreneurial ideas to a product design and develop a business plan to form a corporation which designs and sells products. This year-long course emphasizes the personal, business, and economic system focusing on design and innovation. Units will consist of design, development, prototyping, production, marketing, and sales. Students will be exposed to a variety of software, materials, tools, and machines throughout the processes of design, marketing, production, and sales. The products created in this class may be produced from any number of easily-machinable materials.

0881 ENVIRONMENTAL SUSTAINABILITY (ES) - PLTW

Grade: 10, 11, 12 40 weeks/5 meetings per week - 1 unit

Exam: PLTW End-of-Course Offering: year long

Reading Level: high

Prerequisite: Advanced DDP - PLTW

Environmental Sustainability (ES) is one of the specialization courses in the Project Lead the Way (PLTW) engineering program. In ES, Students investigate and design solutions to solve real-world challenges related to clean drinking water, a stable food supply, and renewable energy. Students are introduced to environmental issues and use the engineering design process to research and design potential solutions. Utilizing the activity-, project-, problem-based learning, students problem solve as they practice common design and scientific protocols such as project management, lab techniques, and peer review.

0812 FURNITURE PRODUCTION

Grade: 10, 11, 12 20 weeks/5 meetings per week – ½ unit

Exam: local Offering: by semester

Reading Level: various

Prerequisite: Wood Tech or Teacher Recommendation

Furniture Production is a woodworking course that will teach students the processes involved in the production of furniture. This course is designed to involve the students in realistic hands-on research and the development of fine crafted wood products. Students, working from plans and materials lists, will build models for production. The emphasis of the course will be students fabricating and constructing a major individual project. Students have the choice of using basic materials supplied by the school, or to opt for more exotic, more expensive wood species at a cost to the student.

0815 HOME MAINTENANCE AND REPAIR

Grade: 9, 10, 11, 12

20 weeks/5 meetings per week – ½ unit

Exam: Local

Offering: by semester

Reading Level: various

Prerequisite: none

Home maintenance and repair is a hands-on course for students who want to learn how to do their own repairs and maintenance around the house. The program will show the student how to save time, money and avoid frustration when making household repairs. After learning about tools, the course will provide knowledge, skills and hands-on activities in the care and repair of plumbing, electrical, heating systems, insulation, finishing and many other household areas. The primary project will be a progressively-built wall segment that incorporates components representing all of the topics covered in the course.

0700 MEDIA PRODUCTIONS

Grade: 9,10,11,12

40 weeks/5 meetings per week – 1 unit

Exam: local

Offering: year long

Reading Level: various

Prerequisite: none

This full year, hands-on course allows students to work with video cameras, audio equipment, editing equipment as well as studying the marketing and advertising aspect of media productions. Students will work in the Mac OS computer environment with a variety of software including Adobe Premiere for video editing and Adobe Audition for audio editing. This will allow students to integrate sound and video within their video productions. This course qualifies students to become a member of QTV morning announcements.

0830 PHOTOGRAPHY I

Grade: 9, 10, 11, 12

20 weeks/5 meetings per week – ½ unit

Exam: local

Offering: by semester

Reading Level: various

Prerequisite: none

Photography I is an introductory technology elective for students who wish to explore the use of the camera both as a documentary and creative tool of the artist. Course emphasis will include: understanding the camera, the history of photography, lenses, digital printmaking, introduction to digital photography, Adobe Photoshop and Lightroom software, matting and presentation of the photograph. The course will be divided between photo assignments and lab work. Student smartphone cameras will be utilized for this course.

0831 PHOTOGRAPHY II

Grade: 9, 10, 11, 12

20 weeks/5 meetings per week – ½ unit

Exam: local

Offering: by semester

Reading Level: various

Prerequisite: Photography I

Photography II will introduce the student to advanced techniques and processes used in digital photography, along with emphasis placed on creative expression by the student through application and investigation. A Digital Single Lens Reflex (DSLR) or Mirrorless camera body with exchangeable lenses is highly recommended. Students are not required to purchase a camera; however if they already own one they can use it in class. Students will have the opportunity to borrow a district-provided professional camera to complete classwork.

0865 PRINCIPLES OF ENGINEERING (POE)

Grade: 11, 12

40 weeks/5 meetings per week – 1 unit

Exam: local

Offering: year long

Reading Level: high

Prerequisite: Technical Drawing or CAD

Principles of Engineering (POE) is a capstone, STEM/engineering course for those students considering engineering at the collegiate level. Activities that provide the foundation of POE include: study of mechanisms, energy, electrical/fluid systems; exploration of material science, quality control, model making, testing and robotics. A primary project that serves as a vehicle for learning in this class is a scratch-built fixed wing, remote-controlled airplane. The course also includes concerns about social and political consequences of technological change.

0821 SMALL ENGINE TECHNOLOGY

Grade: 9, 10, 11, 12

20 weeks/5 meetings per week – ½ unit

Exam: local

Offering: by semester

Reading Level: various

Prerequisite: none

Small Engine Technology will provide students the opportunity to work on a basic “lawn mower-sized” four-stroke engine. Through hands-on activities in class, students will develop a comprehensive understanding of the working parts both outside and inside an internal combustion engine. Students will have the opportunity to work on a school-provided engine.

0850 TECHNICAL DRAWING

Grade: 9, 10, 11, 12

20 weeks/5 meetings per week – ½ unit

Exam: local

Offering: by semester

Reading Level: various

Prerequisite: none

Technical Drawing is a basic STEM course in instrumental drawing. It covers a wide range of experiences in the use of drafting instruments, scales and types of drawing. This course can serve as a basis for advanced work in drafting. Instruction will include layout, lettering, geometric construction, dimensioning, auxiliary and cross-section views, multi-view, development, and pictorial drawings. Students are also introduced to Computer Aided Drawing (CAD) and drafting/design career choices. Credit for Technical Drawing may be applied to the Art/Music requirement for graduation.

0885 REMOTE CONTROL FLIGHT & DRONES

Grade: 9, 10, 11, 12

40 weeks/5 meetings per week – 1 unit

Exam: local

Offering: year long

Reading Level: various

Prerequisite: none

Students will build an RC airplane, and use this project to learn about the forces of flight, control surfaces, electronic control methods, and aerodynamics. As a component of the course, students will also learn about airspace, FAA regulations, weather, and weight and balance of aircraft. After taking this course, students can be confident in pursuing their commercial drone operator certificate by taking a written exam with the FAA.

0810 WOODWORKING TECHNOLOGY

Grade: 9, 10, 11, 12

20 weeks/5 meetings per week - ½ unit

Exam: local

Offering: by semester

Reading Level: various

Prerequisite: none

Woodworking Technology is a basic course where students will work on hands-on activities to fabricate and manufacture various wood products. Activities will include project problem solving, building/utilizing jigs and fixtures, and designing products to build in an industrial setting. Students have the choice of using basic materials supplied by the school, or to opt for more exotic, more expensive wood species at a cost to the student.

OPCSD STEM Education

STEM in the Orchard Park Central School District consists of a conglomeration of classes relevant to **S**cience, **T**echnology, **E**ngineering and **M**athematics (**STEM**). This may start with the advanced OPMS Technology Education students, or in other grade levels at OPHS and continues throughout their high school career. The **STEM** curriculum is a collaborative effort created by the Science, Technology Education, and Mathematics departments, and is supported by practicing professionals in the field. Courses in these subject areas have been designed specifically in order to advance the study of engineering. Students, who choose this course of study as part of their comprehensive high school education, will explore various careers in engineering allowing them to distinguish a specific career path after high school. This is not a tracked program; rather, the goal of this program is to prepare students for entry into a two-year, four-year, or five-year college engineering program.

GRADE	MATH	SCIENCE	TECHNOLOGY EDUCATION
8	Algebra I	Earth Science	MS required courses
9	Geometry	Biology – R	Drawing & Design for Production Computer Application Communication Systems
10	Algebra II/CC Programming	Chemistry – R	CAD Graphic Communications Constructions Tech Energy
11	Pre-Calculus Programming AP Statistics	Physics – R Adv. Chemistry Adv. Biology Anatomy Genetics	Computer Integrated Manufacturing Civil Engineering/Architecture
12	Calculus AP Statistics	AP Physics Adv. Chemistry Adv. Biology Anatomy Genetics Environmental Science Astronomy	Principles of Engineering

WORLD LANGUAGES

The world language program is designed to aid the student in developing presentational, interpersonal and interpretive skills in the target language in order to express oneself adequately in the world language and understand the language when it is spoken or written. The extent to which the student will develop these skills will depend upon exposure to the language and the degree of student effort. All world language courses include intense practice in listening, pronunciation as it affects meaning, vocabulary development, accurate use of linguistic structures and forms, and exercises in reading and writing. The long-range objectives of the program are to broaden the student's outlook on life, society, and the humanities, and to equip the student with skills that can be used in business, higher education, and in the diplomatic and military fields.

World Languages Course Offerings

Course Number	Course Title	Credits	Grade Levels	Meetings Per Week	Exams
5211	French 1	1	9,10,11,12	5	L
5212	French 2	1	9,10,11,12	5	L
5210	French 2b	1	9,10,11,12	5	L
5215	French 3	1	10,11,12	5	L
5216	French 3b	1	10,11,12	5	L
5217	French 4 Honors	1H	11,12	5	L
5218	French 4/5 - The French Speaking World	1	11,12	5	L
5219	French 5 Honors	1H	12	5	L/HC
5220	French 4/5 - View of France	1	11,12	5	L
5221	Spanish 1	1	9,10,11,12	5	L
5222	Spanish 2	1	9,10,11,12	5	L
5224	Spanish 2b	1	9,10,11,12	5	L
5225	Spanish 3	1	10,11,12	5	L
5228	Spanish 3b	1	10,11,12	5	L
5227	Spanish 4 Honors	1H	11,12	5	L
5229	Spanish 5 Honors	1H	12	5	L/HC
5239	Spanish 4/5 - View of Spain	1	11,12	5	L
5240	Spanish 4/5 - The Spanish Speaking World	1	11,12	5	L
5231	Latin 1	1	9,10,11,12	5	L
5232	Latin 2	1	9,10,11,12	5	L
5234	Latin 1b	1	10,11,12	5	L
5235	Latin 5 Honors	1H	11,12	5	L/HC
5236	Latin 4 Honors	1H	11,12	5	L
5237	Roots I	½	9,10,11,12	5	L
5238	Roots II	½	9,10,11,12	5	L

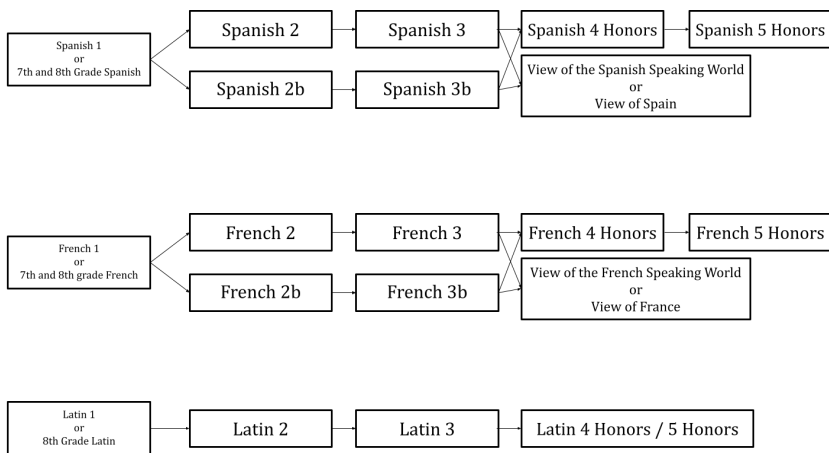
*HC = Hilbert College exam

World Languages Curriculum

Most students must complete one unit of world language in order to graduate.

NOTE TO INCOMING FRESHMEN:

- A. Students are encouraged by many colleges and universities to complete at least a three year course of study in world language prior to acceptance in the collegiate program.
- B. Students who have attended the Orchard Park Middle School and have participated in French or Spanish (designated "1M" on the accompanying flow chart) will be enrolled in the appropriate world language course at the high school based on the recommendations of the middle school world language teachers.



World Languages Course Descriptions

5211 FRENCH 1

Grade: 9, 10, 11, 12

Exam: local

40 weeks/5 meetings per week - 1 unit

Offering: year long

Prerequisite: none

French 1 is an introduction to the French language. It is the first course of a 3-year sequence in French. The course focuses on presentational, interpersonal and interpretive communication skills at a Novice-low to Novice-mid proficiency level. Students who successfully complete this course will be able to enroll in French 2 the following year.

5212 FRENCH 2

Grade: 9, 10, 11, 12

Exam: local

40 weeks/5 meetings per week- 1 unit

Offering: year long

Prerequisites: French 1 and teacher recommendation

This is the second course in a 3-year sequence in French. The course focuses on presentational, interpersonal and interpretive communication skills at a Novice-high to Intermediate-low proficiency level.

5210 FRENCH 2b

Grade: 9, 10, 11, 12

40 weeks/5 meetings per week – 1 unit

Exam: local

Offering: year long

Prerequisites: French 1 and teacher recommendation

This is the second course in a 3-year sequence in French. The course focuses on presentational, interpersonal and interpretive communication skills at a Novice-mid to Novice-high proficiency level.

5215 FRENCH 3

Grade: 10, 11, 12

40 weeks/5 meetings per week – 1 unit

Exam: Regional

Offering: year long

Prerequisites: French 2 and teacher recommendation

This is the third course in a 3-year sequence in French that fulfills the World Language requirement for an Advanced Regents Diploma. The course focuses on presentational, interpersonal and interpretive communication skills at a Intermediate-low to Intermediate-mid proficiency level. Upon completion of this course, all students will take a Regional exam in French.

5216 FRENCH 3b

Grade: 10, 11, 12

40 weeks/5 meetings per week – 1 unit

Exam: Regional

Offering: year long

Prerequisites: French 2 and teacher recommendation

This is the third course in a 3-year sequence in French. The course focuses on presentational, interpersonal and interpretive communication skills at a Novice-high to Intermediate-low proficiency level. Upon completion of this course, all students will take a Regional exam in French.

5217 French 4 Honors

Grade: 11, 12

40 weeks/5 meetings per week – 1H unit

Exam: local

Offering: year long

Prerequisites: French 3 and teacher recommendation

French 4 Honors is designed to develop greater expertise in French. This course prepares students in advanced levels of authentic written and spoken communication skills as well as cultural knowledge and is a prerequisite for the French 5 Honors course. A proficiency level of Intermediate-mid is recommended for those who wish to take this course.

5218 FRENCH 4/5 - THE FRENCH SPEAKING WORLD

Grade: 11, 12

40 weeks/5 meetings per week – 1 unit

Exam: local

Offering: year long

Prerequisites: French 3 and teacher recommendation

This French elective is intended for those students who desire to continue their language study beyond the French 3 requirement. The curriculum aims to build on the student's previous years of French language study to continue to develop proficiency in the French language. In addition, students will develop a deeper knowledge of the history, art, literature, and culture of many French speaking countries. This course alternates every other year with French 4/5 - View of France.

5219 French 5 Honors

Grade: 12

40 weeks/5 meetings per week- 1H unit

Exam: Hilbert College exam

Offering: year long

Prerequisites: French 4 Honors and teacher recommendation

French 5 Honors is designed to develop greater expertise in French. This course prepares students in an advanced level of authentic written and spoken communication skills as well as cultural knowledge. This course aligns with French 201 at Hilbert College. Students have the opportunity to enroll at Hilbert for dual-credit.

5220 French 4/5 - View of France

Grade: 11, 12

40 weeks/5 meetings per week – 1 unit

Exam: local

Offering: year long

Prerequisites: French 3 and teacher recommendation

This French elective is intended for those students who desire to continue their language study beyond the French 3 requirement. The curriculum aims to build on the student's previous years of French language study to continue to develop a higher proficiency in the areas of listening, speaking, reading, and writing in the French language. In addition, students will develop a deeper knowledge of the history, art, literature, and culture of France. This course alternates every other year with French 4/5 - French Speaking World.

5221 SPANISH I

Grade: 9, 10, 11, 12

40 weeks/5 meetings per week – 1 unit

Exam: local

Offering: year long

Prerequisite: none

Spanish 1 is an introduction to the Spanish language. It is the first course of a 3-year sequence in Spanish. The course focuses on presentational, interpersonal and interpretive communication skills at a Novice-low to Novice-mid functional proficiency level. Students who successfully complete this course will be able to enroll in Spanish 2 the following year.

5222 SPANISH 2

Grade: 9, 10, 11, 12

40 weeks/5 meetings per week – 1 unit

Exam: local

Offering: year long

Prerequisites: Spanish 1 and teacher recommendation

This is the second course in a 3-year sequence in Spanish. The course focuses on presentational, interpersonal and interpretive communication skills at a Novice-high to Intermediate-low proficiency level

5224 SPANISH 2b

Grade: 9, 10, 11, 12

40 weeks/5 meetings per week – 1 unit

Exam: local

Offering: year long

Prerequisites: Spanish 1 and teacher recommendation

This is the second course in a 3-year sequence in Spanish. The course focuses on presentational, interpersonal and interpretive communication skills at a Novice-mid to Novice-high proficiency level.

5225 SPANISH 3

Grade: 10, 11, 12

40 weeks/5 meetings per week – 1 unit

Exam: Regional

Offering: year long

Prerequisites: Spanish 2 and teacher recommendation

This is the third course in a 3-year sequence in Spanish. The course focuses on presentational, interpersonal and interpretive communication skills at a Intermediate-low to Intermediate-mid proficiency level Upon completion of this course, all students will take a Regional exam in Spanish.

5228 SPANISH 3b

Grade: 10, 11, 12

40 weeks/5 meetings per week – 1 unit

Exam: Regional

Offering: year long

Prerequisites: Spanish 2 and teacher recommendation

This is the third course in a 3-year sequence in Spanish. The course focuses on presentational, interpersonal and interpretive communication skills at a Novice-high to Intermediate-low proficiency level Upon completion of this course, all students will take a Regional exam in Spanish.

5227 Spanish 4 Honors

Grade: 11, 12

40 weeks/5 meetings per week – 1H unit

Exam: local

Offering: year long

Prerequisites: Spanish 3 and teacher recommendation

Spanish 4 Honors is designed to develop greater expertise in Spanish. This course prepares students in advanced levels of authentic written and spoken communication skills as well as cultural knowledge and is a prerequisite for the Spanish 5 Honors course. A proficiency level of Intermediate-midis recommended for those who wish to take this course.

5229 Spanish 5 Honors

Grade: 12

40 weeks/5 meetings per week – 1H unit

Exam: Hilbert College exam

Offering: year long

Prerequisites: Spanish 5 Honors is designed to develop greater expertise in Spanish. This course prepares students in an advanced level of authentic written and spoken communication skills as well as cultural knowledge. This course aligns with Spanish 201 at Hilbert College. Students have the opportunity to enroll at Hilbert for dual-credit.

5239 Spanish 4/5 - View of Spain

Grade: 11, 12

40 weeks/5 meetings per week – 1 unit

Exam: local

Offering: year long

Prerequisites: Spanish III and teacher recommendation

This Spanish elective is intended for those students who desire to continue their language study beyond the Spanish 3 requirement. The curriculum aims to build on the student's previous years of Spanish language study to continue to develop proficiency in the Spanish language. In addition, students will develop a deeper knowledge of the history, art, literature, and culture of the country of Spain. This course alternates every other year with Spanish 4/5 - The Spanish Speaking World.

5240 Spanish 4/5 - The Spanish Speaking World

Grade: 11, 12

40 weeks/5 meetings per week – 1 unit

Exam: local

Offering: year long

Prerequisites: Spanish 3 and teacher recommendation.

This Spanish elective is intended for those students who desire to continue their language study beyond the Spanish 3 requirement. The curriculum aims to build on the student's previous years of Spanish language study to continue to develop proficiency in the Spanish language. In addition, students will develop a deeper knowledge of the history, art, literature, and culture of many Spanish speaking countries. This course alternates every other year with Spanish 4/5 - View of Spain.

5231 LATIN 1

Grade: 9, 10, 11, 12

40 weeks/5 meetings per week – 1 unit

Exam: local

Offering: year long

Prerequisites: none

Latin 1 focuses on presentational, interpersonal and interpretive communication skills as well as an in depth exploration of the culture and history of the Ancient Roman Empire.

5232 LATIN 2

Grade: 9,10,11,12

40 weeks/5 meetings per week - 1 unit

Exam: local

Offering: year long

Prerequisites: Latin 1 and teacher recommendation

Latin 2 continues to focus on presentational, interpersonal and interpretive communication skills as well as an in depth exploration of the culture and history of the Ancient Roman Empire.

5234 LATIN 3

Grade: 10,11,12

40 week/5 meetings per week - 1 unit

Exam: Regional

Offering: year long

Prerequisite: Latin 2 and teacher recommendation

Latin 3 continues to focus on presentational, interpersonal and interpretive communication skills as well as an in depth exploration of the culture and history of the Ancient Roman Empire

5235 Latin 5 Honors

Grade: 11, 12

40 weeks/5 meetings per week- 1H unit

Exam: local/Hilbert College exam

Offering: year long

Prerequisites: Latin 3

Latin 5 Honors focuses reading skills on the authentic (unadapted) Latin works of two ancient authors, Vergil (the Aeneid) and Julius Caesar (The Gallic War). The syllabus has been revised to focus on both Latin poetry and prose. In addition to further honing and mastering their Latin reading skills, students will also use the works of these two authors as a lens through which to explore such themes and larger questions as literary genre and style, Roman values, war and empire, leadership, ethnography, history and memory, and human-divine relations. Students are required to take the Hilbert College exam in June. This course alternates every year with Latin 4 Honors.

5236 Latin 4 Honors

Grade: 11, 12

40 weeks/5 meetings per week – 1H unit

Exam: local

Offering: year long

Prerequisites: Latin 3

The focus at this level is on the development of Latin lyric and elegiac poetry as literary types. The major emphasis is placed on studying the poetry of Catullus and Ovid at the college level. The student will become acquainted with the cultural, historical and political context of late 1st Century B.C. Rome. Students will analyze noteworthy features of the authors' modes of expression, including their use of imagery, figures of speech, and metrical effects. This course alternates every year with Latin 5 Honors.

5237 ROOTS 1

Grade: 9, 10, 11, 12

20 weeks/5 meetings per week - ½ unit

Exam: local

Offering: by semester

Prerequisite: none

Are you interested in music, sports, health, business, literature, art, mathematics, politics, science, cooking and outer space? This may be the course for you. ROOTS 1 is an elective course for the student who is curious about the world, wants to improve his/her spelling and vocabulary skills, and is interested in the origins of Western Civilization. ROOTS 1 will deal with the Latin roots of words and with ancient roots as the origins of many elements of today's culture. This course will help students who want to do well on placement tests, PSATs, Scholastic Aptitude Tests and College Entrance Exams. This course will be illustrated with a variety of audio-visual materials such as movies, slides and videos.

5238 ROOTS 2

Grade: 9, 10, 11, 12

20 weeks/5 meeting per week – ½ unit

Exam: local

Offering: by semester

Prerequisite: ROOTS 1 or teacher recommendation

ROOTS 2 is an elective course for the student who wants to further develop his/her spelling, vocabulary and grammar skills through the study of Greek prefixes and root words. Also, cultural awareness will be developed through the examination of the origins of modern law, politics, medicine, literature, and religion in ancient Mediterranean societies.

ROOTS 2 will be of advantage to students who want to do well on placement tests, PSATs, Scholastic Aptitude tests and College Entrance Exams. This course will be illustrated with a variety of audio-visual materials such as movies, slides and videos.

ORCHARD PARK HIGH SCHOOL LIBRARY MEDIA CENTER

The mission of the Library is to teach students and staff to be effective users of information and cultivate a passion for learning. The library program supports the curriculum and prepares students by encouraging critical thinking, creative expression, and independent investigation. In the high school library, students are able to access information easily and in a variety of formats. The Orchard Park High School has a Library Home Page from which students can search for print books, access online databases, ebooks/audiobooks, and other helpful research links. Online databases provide reliable, accurate information and are available for use outside of school by remote access. The password to access all the databases is the same credentials students use to access school computers. The library is open until 2:35 p.m. on most days. Certified school librarians provide materials for research projects and to teach information literacy skills. They are available to assist students and staff in locating resources, to provide help with class assignments, as well as solve issues with technology.

CAREER AND TECHNICAL EDUCATION PROGRAMS (CTE)

Through the Board of Cooperative Education Services (BOCES), students are offered a wide range of courses that give them entry level skills for occupations and/or prepare them for further career study in post-secondary educational institutions. In most cases, students will take these occupational courses at the Ormsby Career and Technical Center in East Aurora. This center is equipped and staffed through a cooperative effort among Orchard Park and its neighboring school districts. Some courses are held at other area vocational centers (Potter, Harkness, Calspan, and Kenton), which are denoted in the course description.

The CTE program provides education and training in specific and related occupational education areas consistent with individual student interest and ability. Students attend Orchard Park High School for half-day and spend the other half-day in CTE program earning credit toward graduation and gaining knowledge, skill and practical experience. After graduation, some students begin work immediately, and some pursue further study at colleges, universities and technical institutes.

They make these decisions with the help of their school counselor and CTE personnel.

NOTE: Generally, all Level II courses are offered in the morning and Level I courses are offered in the afternoon.

CTE Course Offerings

Course Number	Course Title	Course Number	Course Title
9120	Digital Media I	9390	Fashion Design Technology II
9130	Digital Media II	9420	Health Careers I
9140	Small Animal Science I	9430	Health Careers II
9150	Small Animal Science II	9440	HVAC I
9160	Automotive Body Repair I	9450	HVAC II
9170	Automotive Body Repair II	9480	Conservation/Natural Resource Management I
9180	Automotive Technology I	9490	Conservation/Natural Resource Management II
9190	Automotive Technology II	9530	Occupational Education I
9195	Sports Conditioning and Exercise Science I	9540	Occupational Education II
9196	Sports Conditioning and Exercise Science II	9590	Small/Large Animal Science I
9200	Construction Technology I	9600	Small/Large Animal Science II
9210	Construction Technology II	9610	Electronics & Computer Technology I
9230	Pre-Engineering & Design and Drafting (PEDD) I	9620	Electronics & Computer Technology II
9240	Pre-Engineering & Design and Drafting (PEDD) II	9630	Welding/Metal Fabrication I
9250	Cosmetology I	9640	Welding/Metal Fabrication II
9260	Cosmetology II	9660	Web Technologies & Game Programming I
9270	Criminal Justice/Crime Scene Investigation-Forensics I	9661	Web Technologies & Game Programming II
9275	Criminal Justice/Crime Scene Investigation-Forensics II	9680	Aviation Technology I
9280	Culinary Arts I	9681	Aviation Technology II
9290	Culinary Arts II	9690	Barbering I
9300	Dental Laboratory Technology I	9691	Barbering II
9310	Dental Laboratory Technology II	9710	Engineering and Robotics I
9320	Power Equipment Technology I	9720	Engineering and Robotics II
9330	Power Equipment Technology II	9730	Video Production & Recording Arts I
9340	Early Childhood Education I	9740	Video Production & Recording Arts II
9350	Early Childhood Education II	9750	Cybersecurity & Networking I
9360	Electrical Systems I	9760	Cybersecurity & Networking II
9370	Electrical Systems II	9770	Baking & Pastry Arts I
9375	Emergency Medical Services (EMS) I	9780	Baking & Pastry Arts II
9376	Emergency Medical Services (EMS) II	9810	Esports Management & Game Development I
9380	Fashion Design Technology I	9811	Esports Management & Game Development II
		9820	Social Media Marketing

CTE Curriculum

9120 DIGITAL MEDIA I 40 weeks/5 meetings per week-3 units

9130 DIGITAL MEDIA II 40 weeks/5 meetings per week-3 units

Grade: 11, 12

2 Year Program

Prerequisite: none

Exam: local

This two-year program is primarily devoted to the fundamentals of commercial art with a study of basic structure, perspective, design, color, harmony, composition and typography. The second year of study includes: advertising layout, typography and typesetting, technical illustration, special uses of the airbrush, mechanical art, color separation and graphic design. Students are required to purchase certain items for art equipment and supplies. **This course is taught at Calspan Career and Technical Education.**

9140 SMALL ANIMAL SCIENCE I 40 weeks/5 meetings per week-3 units

9150 SMALL ANIMAL SCIENCE II 40 weeks/5 meetings per week-3 units

Grade: 11, 12

2 Year Program

Prerequisite: none

Exam: local

Students taking this program develop basic level employable skills in the following areas: dog grooming assistant, kennel assistant, pet shop assistant, and doggie day care. Learning in this class is done with 25% lecture, 65% lab work and 10% clinical skills. Students will work with dogs, cats, mice, rats, gerbils, rabbits, chinchillas, birds and ferrets. Safety consciousness, patience and respectful behavior are required for student and animal safety in this classroom setting.

9160 AUTOMOTIVE BODY REPAIR I 40 weeks/5 meetings per week-3 units

9170 AUTOMOTIVE BODY REPAIR II 40 weeks/5 meetings per week-3 units

Grade: 11, 12

2 Year Program

Prerequisite: none

Exam: local

Students have the opportunity to develop entry-level skills in a collision shop layout with a spray booth, frame straightening machine and large equipment and tools used in the industry. Students record their own time cards, write estimates, order parts and supplies and do work on their own cars after developing skills by working on donated vehicles. Students learn about safety, body fillers for repairs, welding equipment, cooling systems, frame damage repair, plastic repair, auto electrical suspension, alignment and brakes, repair/replacement of sheet metal and glass, paint equipment and spray technologies, use of hand and power tools, automotive detailing and minor upholstery.

9180 AUTOMOTIVE TECHNOLOGY I 40 weeks/5 meetings per week-3 units

9190 AUTOMOTIVE TECHNOLOGY II 40 weeks/5 meetings per week-3 units

Grade: 11, 12

2 Year Program

Prerequisite: none

Exam: local

Instruction in this program is based on ASE guided diagnosis and repair curriculum (industry standard). Students receive hands-on training on modern automobiles covering the most common high tech systems. Students have the opportunity to get paid work experience during the summer after their first year, and to do internships at local dealerships during their second year.

9195 SPORTS CONDITIONING & EXERCISE SCIENCE I

40 weeks/5 meetings per week-3 units

9196 SPORTS CONDITIONING & EXERCISE SCIENCE II

40 weeks/5 meetings per week-3 units

Grade: 11, 12

2 Year Program

Prerequisite: none

Exam: local

Sports Conditioning & Exercise Science introduces students to anatomy, fitness and flexibility, nutrition and weight management, safety, injuries, and injury prevention, cardiorespiratory endurance, exercise and training physiology, medical terminology, applied kinesiology, and other topics. Resistance training and cardiorespiratory training programs and progressions are explored. Students are given instruction which could lead to their certification in CPR, AED, and First Aid. Students also learn about motivational and teaching techniques, health/sports psychology, the American Council on Exercise (ACE) Integrated Fitness Training Model, special populations, supplements, and more. Students will be eligible to take the following exams: American Council on Exercise (ACE) personal trainer certification exam, National Exercise Trainers Association (NETA) personal trainer exam, Aerobics and Fitness Association of America (AFAA) personal trainer certification exam. Students are responsible for exercise clothing, footwear and certification examination fees.

9200 CONSTRUCTION TECH I

40 weeks/5 meetings per week-3 units

9210 CONSTRUCTION TECH II

40 weeks/5 meetings per week-3 units

Grade: 11, 12

2 Year Program

Prerequisite: none

Exam: local

Students learn the basics in the trade areas of rough and finished carpentry, masonry, plumbing, heating, electrical installation, painting and decorating. In the second year, students broaden their basic skills through work on projects in standard and modularized construction and acquire skills to qualify for entry-level work or technical training after graduation.

9230 PRE-ENGINEERING & DESIGN DRAFTING (PEDD) I**40 weeks/5 meetings per week-3 units****9240 PRE-ENGINEERING & DESIGN DRAFTING (PEDD) II****40 weeks/5 meetings per week-3 units**

Grades: 11, 12

2 Year Program

Prerequisite: none

Exam: local

This program is for architectural and mechanical students who wish to pursue a drafting career or continue on for architectural and engineering degrees.

First year students focus on forming a base knowledge of Architectural and Mechanical Technical Drawing with exploration in web design, art, animation, and design. The second year is a continuation of technical drawing concepts with a focus on exploring specific trade areas of art, design, web design, and animation using two and three-dimensional media.

9250 COSMETOLOGY I**40 weeks/5 meetings per week-3 units****9260 COSMETOLOGY II****40 weeks/5 meetings per week-3 units**

Grade: 11, 12

2 Year Program

Prerequisite: none

Exams: local – 11; state – 12

This program provides the 1,000 hours of instruction necessary to qualify students for the New York State-licensing exam. In addition to trade-specific skills, general professional skills are developed. These include working with others, professional appearance and attitude, personal development and dependability.

Students are exposed to the Cosmetology field through workshops, field trips, shadowing, internships and a clinic which is a full service salon open to the public. There is a substantial fee for supplies and uniforms. Arrangements through BOCES may be made to pay on an installment plan if necessary.

9270 CRIMINAL JUSTICE/CRIME SCENE INVESTIGATION-FORENSICS I**40 weeks/5 meetings per week-3 units****9275 CRIMINAL JUSTICE/CRIME SCENE INVESTIGATION-FORENSICS II****40 weeks/5 meetings per week-3 units**

Grade: 11, 12

2 Year Program

Prerequisite: none

Exam: local

The first year program covers topics in the areas of security guards, loss prevention, community policing, plant protection, risk management, and facility/plant security. Students learn to prepare reports, keep daily logs, and compile information. The second year program is based on the study of our legal system and criminal investigation. Guest lecturers and field trips give students a first-hand view of the field.

9280 CULINARY ARTS I 40 weeks/5 meetings per week–3 units
9290 CULINARY ARTS II 40 weeks/5 meetings per week–3 units
Grade: 11, 12 2 Year Program
Prerequisite: none **Exam:** Local

Students learn such aspects of the food industry as quantity food preparation, dining room service and banquet and buffet skills, gourmet and creative cooking. Students develop skills by coordinating a variety of specialized luncheons and dinner functions. Coursework includes a combination of hands-on practical experience as well as theory that is relevant in the restaurant/hospitality industry.

9300 DENTAL LABORATORY TECHNOLOGY I
40 weeks/5 meetings per week - 3 units

9310 DENTAL LABORATORY TECHNOLOGY II
40 weeks/5 meetings per week - 3 units
Grade 11, 12 2 Year Program
Prerequisite: none **Exam:** local

The Dental Laboratory Technology Program is intended for students interested in pursuing a career in dental lab technology, dentistry, dental hygiene and dental assisting. The course covers five specialties of dental laboratory technology: complete denture, partial denture, crown and bridge restoration, porcelain and ceramics and orthodontics. A combination of science, art, skill and craftsmanship along with a complete comprehension of basic techniques, materials, anatomy and terminology will enable the students to fabricate an appliance from beginning to end. The program will prepare students for post-secondary education and / or entry level work in the dental field.

Program is available at the Harkness Career and Technical Education Center.

9320 POWER EQUIPMENT TECHNOLOGY I
40 weeks/5 meetings per week–3 units

9330 POWER EQUIPMENT TECHNOLOGY II
40 weeks/5 meetings per week–3 units
Grade: 11, 12 2 Year Program
Prerequisite: none **Exam:** local

Students learn diagnostic procedures, disassembly of engines, inspection of components and the use of precision measuring instruments. Instruction is also given in engine reconditioning procedures and repair of defective components. Fuel systems, fuel pumps, injectors and nozzles are a major area of instruction, as well as diesel tune-up and troubleshooting. Other major areas taught are electrical, brakes and brake systems, transmissions and differential, clutches and flywheel suspension, springs, lubrication, oxy-acetylene and electric arc welding.

9340 EARLY CHILDHOOD EDUCATION I

40 weeks/5 meetings per week-3 units

9350 EARLY CHILDHOOD EDUCATION II

40 weeks/5 meetings per week-3 units

Grade: 11, 12

2 Year Program

Prerequisite: none

Exam: local

Early Childhood Education may be taken as the second year of the Health Assisting Program. Students who want to work with young children learn about the behaviors and needs of three and four year olds. They participate in an on-site nursery school to develop skills in preparing, planning and operating a well-run program responsive to pre-school needs. Students are responsible for purchasing safety and clothing items. **This course is taught at Harkness Career and Technical Education.**

9360 ELECTRICAL SYSTEMS I 40 weeks/5 meetings per week-3 units

9370 ELECTRICAL SYSTEMS II 40 weeks/5 meetings per week-3 units

Grade: 11, 12

2 Year Program

Prerequisite: none

Exam: local

This course deals with the application of electrical technologies in all phases of the electrical industry. It prepares students for the planning, installation, maintenance and troubleshooting of wiring systems in residential and light industrial settings according to the standards of the National Electrical Code. Instruction in principles of electricity, reading of blueprints and wiring diagrams, and proper use of tools and equipment is provided. Basic principles of solid-state electronics are included to enable students to install, repair, and replace operational systems. **This course is taught at the Potter Career and Technical Education Center.**

9375 EMERGENCY MEDICAL SERVICES (EMS) I

40 weeks/5 meetings per week-3 units

9376 EMERGENCY MEDICAL SERVICES (EMS) II

40 weeks/5 meetings per week-3 units

Grade: 11, 12

2 Year Program

Prerequisite: none

Exam: local

This two year program offers instruction in Emergency Medical Services (EMS), CPR training and certification, a Dispatch course for certification in dispatching, RTE – Red Cross Responding to Emergency for certification, NYS Certified First Responder instruction and certification, introduction to medical terminology. Students must be 18 by August after graduation to take the EMT certification exam. **This course is taught at the Kenton Career and Technical Education Center.**

9380 FASHION DESIGN TECHNOLOGY I**40 weeks/5 meetings per week-3 units****9390 FASHION DESIGN TECHNOLOGY II****40 weeks/5 meetings per week-3 units**

Grade: 11, 12

2 Year Program

Prerequisite: none

Exam: local

This program has been developed to provide students with the necessary skills and knowledge to gain entry level employment or further their education in the design, manufacturing and merchandising of garments and accessories. Students use state of the art software, sewing machines and serges to create their designs. The curriculum includes units of study in fabric, color, fashion design, salesmanship and retail management. **This course is taught at the Harkness Career and Technical Education.**

9420 HEALTH CAREERS I**40 weeks/5 meetings per week-3 units****9430 HEALTH CAREERS II****40 weeks/5 meetings per week-3 units**

Grade: 11, 12

2 Year Program

Prerequisite: none

Exam: local and state

This course comprises entry level nursing skills and procedures, anatomy and physiology, nutrition, mother and child care, infection control, first aid, medical ethics, as well as care of the elderly, emotionally disturbed and physically handicapped. In conjunction with supervised clinical experiences at Mercy Hospital, this course prepares the student to become an effective member of the healthcare field. Qualified students are eligible to take the NYS Certified Nursing Assistant exam and enter an LPN articulation program for completion of study and eligibility for LPN state board exams. Clinical experiences in Allied Health Services (OT/PT, X-ray, Dietary, Laundry, Activities, Supply & Purchasing) are incorporated into the clinical rotation to provide those students who wish to enter these fields an opportunity to observe and evaluate career choices.

9440 HVAC I**40 weeks/5 meetings per week - 3 units****9450 HVAC II****40 weeks/5 meetings per week - 3 units**

Grade: 11, 12

2 Year Program

Prerequisite: none

Exam: local

HVAC (Heating, Ventilation, Air Conditioning & Refrigeration) is an intensive hands-on job training program. Upon completion of this course, you will have the skills needed to obtain employment as an entry-level HVAC technician. You will learn to install, service and trouble shoot residential and commercial air conditioning, refrigeration and heating equipment. Instructors will use hands-on activities to bring workplace skills to the classroom. You will take the EPA 608 Certification Exam. **(300 Hour Program) Program is available at Potter Career and Technical Education Center.**

9480 CONSERVATION/NATURAL RESOURCE MANAGEMENT I

40 weeks/5 meetings per week-3 units

9490 CONSERVATION/NATURAL RESOURCE MANAGEMENT II

40 weeks/5 meetings per week-3 units

Grade: 11, 12

2 Year Program

Prerequisite: none

Exam: local

This program prepares students for entry-level positions in landscaping and design, and greenhouse operations. The curriculum covers the establishment and maintenance of trees, shrubs, and plants and the planning and construction of landscape features. Students will also gain experience operating heavy equipment used in landscaping. Additional topics will include Forestry, Wildlife Management, Chainsaw safety, maintenance and operation and Surveying.

9530 OCCUPATIONAL EDUCATION I

40 weeks/5 meetings per week-3 units

9540 OCCUPATIONAL EDUCATION II

40 weeks/5 meetings per week-3 units

Grade: 9,10,11,12

2 Year Program

Prerequisite: none

Exam: local

Occupational Education offers supportive career development programs to students with learning or management needs who require small classes and individually modified curriculums. The OSE program is divided into phases roughly corresponding to a school year. Phase I is an exploratory program. Phase II is the specialization or skill-building phase and may include an out-of-school internship experience for students who are ready to work in the community. **This course is taught at the Potter Career and Technical Education Center.**

9590 SMALL AND LARGE ANIMAL SCIENCE I

40 weeks/5 meetings per week-3 units

9600 SMALL AND LARGE ANIMAL SCIENCE II

40 weeks/5 meetings per week-3 units

Grade: 11, 12

2 Year Program

Prerequisite: none

Exam: local

This is a technical course that will prepare you to go on to veterinary science technology at the college level. It is also a technical course that teaches basic advanced and specialized skills in areas such as dog grooming, kennel and pet shop management, and care of animals in the research laboratory. These skills will prepare you for entry-level positions in the animal science field.

9610 ELECTRONICS & COMPUTER TECHNOLOGY I

40 weeks/5 meetings per week-3 units

9620 ELECTRONICS & COMPUTER TECHNOLOGY II

40 weeks/5 meetings per week-3 units

Grade: 11, 12

2 Year Program

Prerequisite: none

Exam: local

This program provides the knowledge and skills required to pursue a career as a technician or engineer in a wide range of “in-demand” technical fields including computers, robotics, wireless communications, consumer products, medicine, aviation and others. Students build computers, program robots to operate in work cells and construct analog and digital electronic circuits. They use multimeters, oscilloscopes and other test equipment to troubleshoot and repair electronic “hardware.” The program prepares students for the Certified Electronics Technician (CET), Comptia A+ Computer and Mobile Electronics Certified Professional (MECP) examinations. **This course is taught at the Harkness Career and Technical Education Center.**

9630 WELDING/METAL FABRICATION I

40 weeks/5 meetings per week-3 units

9640 WELDING/METAL FABRICATION II

40 weeks/5 meetings per week-3 units

Grade: 11, 12

2 Year Program

Prerequisite: none

Exam: local

Students learn current welding skills involving ARC, MIG, TIG, covered wire, submerged ARC, plasma cutting, plasma welding, pipe welding, blueprint reading and fabrication skills. Metals worked with include steel, stainless, aluminum and castings. Students in this program develop the skills necessary to be successful in welding/ metal fabrication occupations in sectors such as the oil and gas, manufacturing and transportation industries, and all branches of the military.

9660 WEB TECHNOLOGIES & GAME PROGRAMMING I

40 weeks/5 meetings per week-3 units

9661 WEB TECHNOLOGIES & GAME PROGRAMMING II

40 weeks/5 meetings per week-3 units

Grade: 11, 12

2 Year Program

Prerequisite: none

Exam: local

Web Technologies and Game Programming is a fun and creative program that teaches students of all skill levels how to create dynamic Web sites. The foundations of programming are also covered as students learn how to plan the logic of game design. Students will learn to create Web pages from scratch using source code to develop high-end Multimedia interactive sites. This comprehensive program extends into databases, form design, information

management, and Multimedia software. Programming languages are also an integral part of the program. In learning basic to advanced programming skills students will have the skills necessary to create executable user applications.

This is accomplished through academic learning experiences combined with hands-on practical experience to help students develop the thinking and problem solving skills critical to post-secondary education and career success. Students will study the Internet, Databases, Java, JavaScript, HTML, Visual Basic, Game Programming, Multimedia Tools, Web Server Administration, Troubleshooting and Configuration Problems as well as Digital Networking. **This course is taught at the Calspan Career and Technical Education Center.**

9680 AVIATION TECHNOLOGY I

40 weeks/5 meetings per week - 3 units

9681 AVIATION TECHNOLOGY II

40 weeks/5 meetings per week - 3 units

Grade 11, 12

2 Year Program

Prerequisite: none

Exam: local

Aviation Technology students experience flight firsthand along with the necessary maintenance procedures for today's aircrafts. Students will delve into the technology behind unmanned aircrafts as the world of aviation continually evolves. Erie 1 BOCES has partnered with Prior Aviation to provide this course. **Program is offered at the Harkness Career and Technical Education Center**

9690 BARBERING I

40 weeks/5 meetings per week - 3 units

9691 BARBERING II

40 weeks/5 meetings per week - 3 units

Grade 11, 12

2 Year Program

Prerequisite: none

Exam: local

Students will learn the art of barbering through experienced instructors who will share the latest industry trends. Students will gain the essentials of complete hair and skin services such as steam facials, facial massage, and foam shaves, as well as modern styling, hair cutting, coloring, and blow drying. Barbering is an art form that requires skill and an understanding of the principles behind each cut. Barbering students will practice their art in a live, barber shop setting with clients from the community. As many graduates go on to open their own barber shops, students will also learn about shop ownership and business management. Erie 1 BOCES assists students preparing for the practical and written exam in order to obtain a NYS Master Barbering License. **Program is offered at Harkness Career and Technical Education Center.**

9710 ENGINEERING AND ROBOTICS I

40 weeks/5 meetings per week - 3 units

9720 ENGINEERING AND ROBOTICS II

40 weeks/5 meetings per week - 3 units

Grade: 11, 12

2 Year Program

Prerequisite: none

Exam: local

Through hands-on learning projects and skill based competitions, Engineering and Robotics students are prepared for industry careers or post-secondary education by utilizing state-of-the-art computers, software, modeling, prototyping and robotic building components, and robotic development systems. Students will explore many areas of robotic manufacturing and engineering design technologies in order to help them make sound, career oriented decisions. This program offers students insight into how things work and the opportunity to build real mechanisms and components formulated from their own ideas to fulfill a need or complete a concept. Our participation in First Robotics, a pumpkin throwing contest, VEX robotic competitions and other technical oriented endeavors bring together class work, your ideas, your concepts and visions to offer real world solutions to everyday problems.

Program is available at the Harkness Career and Technical Education Center.

9730 VIDEO PRODUCTION & RECORDING ARTS I

40 weeks/5 meetings per week - 3 units

9740 VIDEO PRODUCTION & RECORDING ARTS II

40 weeks/5 meetings per week - 3 units

Grade: 11, 12

2 Year Program

Prerequisite: none

Exam: local

The Video Production & Recording Arts program is a hands-on course where students acquire skills in video and audio production through the operation of state-of-the-art digital video and audio studio production equipment. Students will be able to combine their artistic creativity with technological knowledge to produce original video and audio productions such as newscasts, music videos, short films, music recording projects, and audio / video post-production projects. New technology has enabled this program to incorporate broadcast quality video editing with Adobe Creative Suite Production Premium and high definition studio cameras (HDTV) for video projects, and individual AVID ProTools workstations for audio projects. Through independent and group activities, students will gradually build the skills necessary to work in a variety of communications-based industries and to pursue a post-secondary degree in video or audio production. **Program is available at the Calspan Career and Technical Education Center.**

9750 CYBERSECURITY & NETWORKING I

40 weeks/5 meetings per week - 3 units

9760 CYBERSECURITY & NETWORKING II

40 weeks/5 meetings per week - 3 units

Grade: 11, 12

2 Year Program

Prerequisite: none

Exam: local

Cybersecurity and Networking will examine cybercrime and consider its impact on law enforcement, national security, the corporate world and society. Students will enter the world of designing, building and maintaining networks capable of supporting and protecting national and global organizations in every industry. Students will gain skills needed to design and implement internet connectivity, Wide Area Networks (WANs) and Local Area Networks (LANs). The program is adapted to suit individual needs and features hands-on, project-based training in high-demand job skills. The curriculum is aligned with National Science Education Standards, the American Association for the Advancement of Science Project 2061 Benchmarks, and Dartmouth Engineering Problem-Solving Methodology. **Program is available at the Harkness Career and Technical Education Center.**

9770 BAKING & PASTRY ARTS I

40 weeks/5 meetings per week - 3 units

9780 BAKING & PASTRY ARTS II

40 weeks/5 meetings per week - 3 units

Grade: 11, 12

2 Year Program

Prerequisite: none

Exam: local

Baking and Pastry Arts offers students an opportunity to understand what goes into creating beautiful finished pastries, breads, and cakes. Students will not only produce baked goods in both large and small quantities, but understand the science behind them. Baking students have an opportunity to create beautiful show pieces, plated desserts, chocolates, and individual pastries. Students will also have a chance to gain on-the-job experience during their internship program. Students in this program will gain the experience necessary to enter the baking and pastry industry at the entry level or get a jump start on their college career. **Program is available at the Potter Career and Technical Education Center.**

9810 ESPORTS MANAGEMENT & GAME DEVELOPMENT I

40 weeks/5 meetings per week - 3 units

9811 ESPORTS MANAGEMENT & GAME DEVELOPMENT II

40 weeks/5 meetings per week - 3 units

Grade: 11, 12

2 Year Program

Prerequisite: none

Exam: local

Students will explore the growing world of Esports and learn the business components of this booming industry. Topics of study include: computer literacy, game industry fundamentals, narrative design, principles and elements of design, game audio components, broadcasting and streaming, logo and brand design, game theory and strategy, and marketing strategies.

Program is available at the Calspan Career and Technical Education Center.

9820 SOCIAL MEDIA MARKETING

40 weeks/5 meetings per week - 3 units

Grade: 11 or 12

1 Year Program

Prerequisite: none

Exam: local

Students will learn the variety of social media platforms available to businesses, learn how to build a company's brand, increase sales in e-commerce spaces, and drive website traffic. Students will explore ways to engage existing customers, reach new ones, and analyze analytics and demographic information that allow marketers to track the success of their efforts and identify more ways to engage. **Program is available at the**

Calspan Career and Technical Education Center.

New Visions & Tech Prep Course Offerings

Course Number	Course Title	Course Number	Course Title
9790	New Visions: Health Related Careers	9850	New Visions: Legal Academy
9830	New Visions: Diesel Technology	9860	New Visions: Plant Science
9840	New Visions: Education Pathways Academy	9793	New Visions: Zoo, Wildlife, and Conservation Careers
		9792	New Visions: Precision Manufacturing & Engineering

NEW VISIONS & TECH PREP PROGRAMS

****SENIORS ONLY****

Special Application Procedure must include the following items:

- Student Application (please see your counselor first)
- High School Transcripts and Report Cards (Including Sophomore and Junior Grades to Date for Quarters One and Two)
- Attendance Report (Including Sophomore and Junior Year to Date for Quarters One and Two)
- Two (2) Letters of Recommendation
 - One School (Counselor, Principal or Teacher)
 - One Personal
- Statement of Career Interest in Essay Form
- Student Photo

9790 NEW VISIONS: HEALTH RELATED CAREERS

40 weeks/5 meetings per week - 4 units

Grade: 12

1 Year Program

Prerequisite: none

Exam: local

Reading Level: high/honors

Connections - Health Related Careers (New Visions) gives honors-level seniors the opportunity to observe all aspects of the medical field in action. Students spend the year at either the Buffalo Niagara Medical Campus, Millard Fillmore Hospital or Oishei Children's Hospital working with medical professionals in the areas of their interest. Students receive English 12 (1 Credit), Government (.5 Credit), Economics (.5 Credits), Internship (1 Credit), Health Related Careers (1 Credit). **Located on-site at one of these medical facilities, students must provide their own transportation.**

9830 NEW VISIONS: DIESEL TECHNOLOGY

40 weeks/5 meetings per week - 4 units

Grade: 12

1 Year Program

Prerequisite: none

Exam: local

Reading Level: medium

Diesel Technology is a one year Tech Prep Program that connects qualified, highly motivated high school seniors with professionals in the workplace. This competitive, off-site program provides unique training with nationally recognized partners. Start training in diesel today with real-world, hands-on experiences. Diesel Technology will train students to apply knowledge and skills to a wide range of diesel-powered equipment. Students receive English 12 (1 Credit), Government (.5 Credit), Economics (.5 Credits), Internship (1 Credit), Diesel Technology (1 Credit). **Located on-site at Conway Beam Truck Group facilities, students must provide their own transportation.**

9840 NEW VISIONS: EDUCATION PATHWAYS ACADEMY

40 weeks/5 meetings per week - 4 units

Grade: 12

1 Year Program

Prerequisite: none

Exam: local

Reading Level: high/honors

Our Education Pathways Academy program provides students the opportunity to learn education terminology and frameworks, technology, structure, mandates, and services. Students will participate in rotations in a variety of educational settings including elementary, middle, and high school, as well as specialty areas such as special education, music, art, occupational and physical therapy, speech, counseling, and administration. Students receive English 12 (1 Credit), Government (.5 Credit), Economics (.5 Credits), Internship (1 Credit), Diesel Technology (1 Credit). **Located on-site at Buffalo State University facilities, students must provide their own transportation.**

9850 NEW VISIONS: LEGAL ACADEMY

40 weeks/5 meetings per week - 4 units

Grade: 12

1 Year Program

Prerequisite: none

Exam: local

Reading Level: high/honors

Legal Academy gives honors-level seniors the opportunity to experience criminal justice and law-related fields while on campus at Canisius College and UB. Students will also develop a network of professional connections through extensive field experiences across Western New York. Students receive English 12 (1 Credit), Government (.5 Credit), Economics (.5 Credits), Internship (1 Credit), Diesel Technology (1 Credit). **Located on-site at**

Canisius University and University at Buffalo facilities, students must provide their own transportation.

9860 NEW VISIONS: PLANT SCIENCE

40 weeks/5 meetings per week - 4 units

Grade: 12

1 Year Program

Prerequisite: none

Exam: local

Reading Level: high/honors

Our Plant Science program is a one-year, senior level program that incorporates contemporary knowledge, skills and practices found in the horticulture, floral and landscaping industries. Students receive English 12 (1 Credit), Government (.5 Credit), Economics (.5 Credits), Internship (1 Credit), Diesel Technology (1 Credit). **Located on-site at Buffalo & Erie County Botanical Garden facilities, students must provide their own transportation.**

9793 NEW VISIONS: ZOO, WILDLIFE, AND CONSERVATION CAREERS

40 weeks/5 meetings per week - 4 units

Grade: 12

1 Year Program

Prerequisite: none

Exam: local

Reading Level: high/honors

Zoo Wildlife and Conservation Careers is a program for honors-level seniors. Students in this program consider the 23-acre Buffalo Zoo their home and explore the many career possibilities in animal care, wildlife conservation and zoo operations. Students receive English 12 (1 Credit), Government (.5 Credit), Economics (.5 Credits), Internship (1 Credit), Diesel Technology (1 Credit). **Located on-site at Buffalo Zoo facilities, students must provide their own transportation.**

9792 NEW VISIONS: PRECISION MANUFACTURING & ENGINEERING

40 weeks/5 meetings per week - 4 units

Grade: 12

1 Year Program

Prerequisite: none

Exam: local

Reading Level: high/honors

The half-day program allows students to spend the morning working alongside machinists, technicians and engineers in various aspects/phases of production. The goal of the program is for students to develop a complete foundation of the precision manufacturing process, from design to fabrication. Together with regional partners including PCB Piezotronics, Inc., SUNY Erie and Niagara County Community College, New Visions will help prepare the workforce of the future — today. **Located on-site at PCB Piezotronics facilities, students must provide their own transportation.**