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 which 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
Dr. Fisher - House Principal
Mrs. Linder - Counselor
Mrs. See - Counselor

May you have a very successful 2022 - 2023 school year.

Sincerely,

Jonathan Wolf
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
- ¼ - one-quarter unit credit granted upon successful completion
- ½ - 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: ½ (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 ½ credit courses on alternating days (2 days one week, 3 next)
  - 5 periods – normal for ½ 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 achievement. 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.
To qualify for a Regents Diploma, students must pass required Regents Exams in English Language Arts, Mathematics, Global Studies, US History and Science.

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Regents Diploma</th>
<th>Advanced Regents Diploma</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>4 units, one Regents exam</td>
<td>4 units, one Regents exam</td>
</tr>
<tr>
<td>Social Studies</td>
<td>4 units, two Regents exams</td>
<td>4 units, two Regents exams</td>
</tr>
<tr>
<td>Mathematics</td>
<td>3 units, one Regents exam</td>
<td>3 units, three Regents exams</td>
</tr>
<tr>
<td>Science</td>
<td>3 units, one Regents exam</td>
<td>3 units, two Regents exams</td>
</tr>
<tr>
<td>Second language</td>
<td>1 unit</td>
<td>3 units, one Local/Regional exam or 1 unit of World Language and an Alternative Sequence (5 units in Art, Music, Business, Technology Education or Career and Technical Education)</td>
</tr>
<tr>
<td>Health</td>
<td>½ unit</td>
<td>½ unit</td>
</tr>
<tr>
<td>Art/Music (see Note #1)</td>
<td>1 unit</td>
<td>1 unit</td>
</tr>
<tr>
<td>Computer Science or Personal Finance</td>
<td>½ unit</td>
<td>½ unit</td>
</tr>
<tr>
<td>Physical Education</td>
<td>2 units</td>
<td>2 units</td>
</tr>
<tr>
<td>Additional Electives</td>
<td>3 units</td>
<td>1 unit</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>22 units</strong></td>
<td><strong>22 units</strong></td>
</tr>
</tbody>
</table>
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 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 Entrance Examination 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 enrolled in Regents courses are required to take the State Regents Exam at the end of the course, if offered. 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. Students must maintain an average that reflects their ability, a strong work ethic and a desire to learn.
**Advanced Placement**
Advanced Placement courses are approved by the College Entrance Examination Board. Advanced Placement courses are for the superior college-bound student. Teachers follow the advanced placement syllabus. Students enrolled in advanced placement courses must take A.P. Examinations at their own expense. Many colleges grant credit for successful completion of the A.P. Examination.

**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, final examinations are weighted as 1/5 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. Students who take a Regents course will be required to take the Regents examination at the conclusion of the course.

**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.

**Regents Examination Retakes**

In an effort to encourage students to improve their scores on Regents exams while balancing the demands of our high school grade reporting process, we will allow students to retake any Regents exam to improve their course averages and class standing. For grade reporting purposes, **only one re-take of any Regents exam per course may be utilized to recalculate class rank.** The higher grade will take precedence in this process. For example, if a student were to re-take Regents exams in more than one subject, class rank would be recalculated following the scoring of the Regents exam in each course where the grade was improved. A failing course grade (below 65%) may not be raised to a passing level using this procedure. However, a failing grade may be raised to a maximum of 64%. Grades for all Regents exams taken will be posted on the transcript.

Students will have one calendar year, after their first seating for any Regents exam, to take advantage of this option. Please direct any questions to your school counselor.

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 circumstance must follow the same procedure listed above for Regents retakes. Approval from the House Principal is necessary for any unusual situation that may arise.

**Advanced Placement**

Mandatory Advanced Placement examinations are given in courses following the outline of the College Entrance Examination Board (CEEB). The examinations have been developed to test the superior student 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 school counselor for 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
For half-credit (.5) courses, any drop/add/changes must be made after the third day but before the end of the sixth day of the first six-day cycle at the start of the semester.
For full-credit (1.0) courses and levels changes, any changes must be made after the third day of the first six-day cycle but before the end of the second six-day cycle.
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 CANCELLED DUE TO INSUFFICIENT STUDENT REQUESTS FOR ENROLLMENT. COURSES OF STUDY OR ENTIRE ELECTIVE PROGRAMS MAY ALSO BE CANCELLED 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.
<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Credits</th>
<th>Grade Levels</th>
<th>Meetings Per Week</th>
<th>Reading Level</th>
<th>Exams</th>
</tr>
</thead>
<tbody>
<tr>
<td>0600</td>
<td>Studio in Art</td>
<td>½</td>
<td>9,10,11,12</td>
<td>5</td>
<td>V</td>
<td>L</td>
</tr>
<tr>
<td>0611</td>
<td>Studio in Drawing and Painting I</td>
<td>½</td>
<td>9,10,11,12</td>
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<td>V</td>
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<tr>
<td>0612</td>
<td>Studio in Drawing and Painting II</td>
<td>½</td>
<td>9,10,11,12</td>
<td>5</td>
<td>V</td>
<td>L</td>
</tr>
<tr>
<td>0613</td>
<td>Studio in Ceramics I</td>
<td>½</td>
<td>9,10,11,12</td>
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<td>V</td>
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<tr>
<td>0614</td>
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<tr>
<td>0615</td>
<td>Studio in Sculpture I</td>
<td>½</td>
<td>9,10,11,12</td>
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<td>L</td>
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<tr>
<td>0616</td>
<td>Studio in Sculpture II</td>
<td>½</td>
<td>9,10,11,12</td>
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</tr>
<tr>
<td>0617</td>
<td>Studio in Printmaking I</td>
<td>½</td>
<td>9,10,11,12</td>
<td>5</td>
<td>V</td>
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</tr>
<tr>
<td>0618</td>
<td>Studio in Printmaking II</td>
<td>½</td>
<td>9,10,11,12</td>
<td>5</td>
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</tr>
<tr>
<td>0619</td>
<td>Design and Illustration</td>
<td>½</td>
<td>9,10,11,12</td>
<td>5</td>
<td>V</td>
<td>L</td>
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<tr>
<td>0621</td>
<td>Art of the Western World</td>
<td>½</td>
<td>11,12</td>
<td>5</td>
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<td>L</td>
</tr>
<tr>
<td>0622</td>
<td>Art of Africa, Asia &amp; the Americas</td>
<td>½</td>
<td>11,12</td>
<td>5</td>
<td>V</td>
<td>L</td>
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<tr>
<td>0623</td>
<td>Fine Art Photography</td>
<td>½</td>
<td>9,10,11,12</td>
<td>5</td>
<td>V</td>
<td>L</td>
</tr>
<tr>
<td>0624</td>
<td>Honors Art</td>
<td>1H</td>
<td>12</td>
<td>5</td>
<td>M/H</td>
<td>L/AP</td>
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<tr>
<td>0625</td>
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<td>½</td>
<td>10,11,12</td>
<td>5</td>
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<td>L</td>
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<tr>
<td>0626</td>
<td>Elements of Fashion</td>
<td>½</td>
<td>10,11,12</td>
<td>5</td>
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<td>L</td>
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<tr>
<td>0627</td>
<td>Art and Identity</td>
<td>½</td>
<td>11,12</td>
<td>5</td>
<td>M/H</td>
<td>L</td>
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<tr>
<td>0628</td>
<td>America's Visual Edge</td>
<td>½</td>
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<td>M/H</td>
<td>L</td>
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<tr>
<td>0629</td>
<td>Graphic Novels</td>
<td>½</td>
<td>9,10,11,12</td>
<td>5</td>
<td>V</td>
<td>L</td>
</tr>
</tbody>
</table>
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 Foreign Language AND one of the 5-unit alternative sequences below. Please see Graduation Requirements, page 1.

Suggested 5 Unit Sequence

- Studio in Art
- Studio in Drawing & Painting 1
- Studio in Drawing & Painting 2
- Studio in Printmaking 1
- Studio in Ceramics 1 or Studio in Sculpture 1
- Fine Art Photography
- Plus 2 additional credits in any 1/2 credit art course.

Recommended 5 Unit Sequence: Honors

- Studio in Art
- Studio in Drawing & Painting 1
- Studio in Drawing & Painting 2
- Studio in Printmaking 1
- Design & Illustration
- Honors Art (full year = 1 credit)
  - Plus at least 1/2 credit in either Ceramics or Sculpture
  - Plus at least 1 additional credit in any additional art course.
  - Recommended: 1/2 credit in either Art & Identity, Art of Africa, Asia & the Americas, or Art of the Western World.

Note: Students must be recommended for Honors Art by the art department. A 5 unit Honors Track sequence does not guarantee entrance into Honors Art.
Art Course Descriptions

0600 STUDIO IN ART
Grade: 9, 10, 11, 12
Exam: local
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
Exam: local
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
Exam: local
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
Exam: local
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
Exam: local
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
Exam: local
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
Exam: local
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  
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  
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  
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  
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
Exam: Local
Offering: year long
Reading Level: medium/high
Prerequisite: Teacher recommendation plus three art courses that should include both two and three-dimensional experiences (see Recommended Art Sequences on page 10). 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
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
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

Do you want to learn about computers, participate in an internship, be an advertising executive, an accountant, a lawyer; a sales-person, a supervisor/manager or own your own business someday? The Business/Marketing Department offers Orchard Park students the opportunity to explore and prepare for these types of business-related careers. 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 transcripted college credit: Accounting Principles I, iComp II, College Success Skills, Business Law, Personal Finance & Principles of Marketing.
<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Credits</th>
<th>Grade Levels</th>
<th>Meetings Per Week</th>
<th>Reading Level</th>
<th>Exams</th>
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</thead>
<tbody>
<tr>
<td>0300</td>
<td>Career &amp; Financial Management</td>
<td>1</td>
<td>9,10,11,12</td>
<td>5</td>
<td>V</td>
<td>L</td>
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<tr>
<td>0303</td>
<td>Personal Law</td>
<td>½</td>
<td>9,10,11,12</td>
<td>5</td>
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<tr>
<td>*0304</td>
<td>Business Law</td>
<td>1</td>
<td>9,10,11,12</td>
<td>5</td>
<td>V</td>
<td>L</td>
</tr>
<tr>
<td>*0313</td>
<td>College Success Skills</td>
<td>½</td>
<td>9,10,11,12</td>
<td>5</td>
<td>V</td>
<td>L</td>
</tr>
<tr>
<td>0321</td>
<td>Leadership Skills</td>
<td>½</td>
<td>9,10,11,12</td>
<td>5</td>
<td>V</td>
<td>L</td>
</tr>
<tr>
<td>++*0330</td>
<td>Personal Finance</td>
<td>½</td>
<td>9,10,11,12</td>
<td>5</td>
<td>V</td>
<td>L</td>
</tr>
<tr>
<td>*0331</td>
<td>Accounting Principles I</td>
<td>1</td>
<td>9,10,11,12</td>
<td>5</td>
<td>V</td>
<td>L</td>
</tr>
<tr>
<td>0332</td>
<td>Accounting Principles II</td>
<td>1</td>
<td>10,11,12</td>
<td>5</td>
<td>V</td>
<td>L</td>
</tr>
<tr>
<td>0334</td>
<td>Banking and Credit</td>
<td>½</td>
<td>9,10,11,12</td>
<td>5</td>
<td>V</td>
<td>L</td>
</tr>
<tr>
<td>+0340</td>
<td>iComp I (Integrated Computers)</td>
<td>½</td>
<td>9,10,11,12</td>
<td>5</td>
<td>V</td>
<td>L</td>
</tr>
<tr>
<td>*0342</td>
<td>iComp II</td>
<td>½</td>
<td>10,11,12</td>
<td>5</td>
<td>V</td>
<td>L</td>
</tr>
<tr>
<td>*$0381</td>
<td>Principles of Marketing</td>
<td>1 or 2</td>
<td>9,10,11,12</td>
<td>5</td>
<td>V</td>
<td>L</td>
</tr>
<tr>
<td>0382</td>
<td>Sports Management</td>
<td>½</td>
<td>9,10,11,12</td>
<td>5</td>
<td>V</td>
<td>L</td>
</tr>
<tr>
<td>0383</td>
<td>Advertising &amp; Public Relations</td>
<td>½</td>
<td>9,10,11,12</td>
<td>5</td>
<td>V</td>
<td>L</td>
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<tr>
<td>0390</td>
<td>Career Exploration Internship Program</td>
<td>½</td>
<td>11,12</td>
<td>1</td>
<td>V</td>
<td>L</td>
</tr>
</tbody>
</table>

+ This course can fulfill the ½-unit requirement for computer literacy. (OR alternatively, students in the Classes of 2022-2024 could take Personal Finance, thus fulfilling the new financial literacy requirement)
++ This course fulfills the ½-unit requirement for financial literacy (effective for the Class of 2025)
* 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

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>Accounting Principles I</td>
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</tr>
<tr>
<td>Personal Finance</td>
<td>3</td>
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<tr>
<td>iComp II</td>
<td>3</td>
</tr>
<tr>
<td>College Success Skills</td>
<td>3</td>
</tr>
<tr>
<td>Business Law</td>
<td>3</td>
</tr>
<tr>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Course</th>
<th>HS Credit Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>i-Comp I (Integrated Computers I)</td>
<td>1/2</td>
</tr>
<tr>
<td>i-Comp II (Integrated Computers II)</td>
<td>1/2</td>
</tr>
<tr>
<td>Accounting I</td>
<td>1</td>
</tr>
<tr>
<td>Banking &amp; Credit</td>
<td>1/2</td>
</tr>
<tr>
<td>Career &amp; Financial Management</td>
<td>1</td>
</tr>
<tr>
<td>Personal Finance</td>
<td>1/2</td>
</tr>
<tr>
<td>Accounting II OR Business Law OR Principles of Marketing</td>
<td>1</td>
</tr>
<tr>
<td>Industry Based Technical Assessments – passing grades *</td>
<td>N/A</td>
</tr>
</tbody>
</table>

**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

*MAY BE TAKEN ANY TIME BEFORE THE END OF SENIOR YEAR.
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.

<table>
<thead>
<tr>
<th>Course</th>
<th>HS Credit Units</th>
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</thead>
<tbody>
<tr>
<td>AOF i-Comp I (Integrated Computers I)</td>
<td>1/2</td>
</tr>
<tr>
<td>i-Comp II (Integrated Computers II)</td>
<td>1/2</td>
</tr>
<tr>
<td>Accounting I</td>
<td>1</td>
</tr>
<tr>
<td>Banking &amp; Credit</td>
<td>1/2</td>
</tr>
<tr>
<td>AOF Leadership Skills Development</td>
<td>1/2</td>
</tr>
<tr>
<td>Personal Finance</td>
<td>1/2</td>
</tr>
<tr>
<td>Accounting II OR Business Law OR Principles of Marketing</td>
<td>1</td>
</tr>
<tr>
<td>AOF Internship Program</td>
<td>1/2</td>
</tr>
<tr>
<td>Industry Based Technical Assessments – passing grades *</td>
<td>N/A</td>
</tr>
<tr>
<td><strong>Total Units of Credit</strong></td>
<td><strong>5</strong></td>
</tr>
</tbody>
</table>
0300 CAREER AND FINANCIAL MANAGEMENT
Grade: 9,10,11,12
Exam: local
Offering: full year
Reading Level: various
Prerequisite: none
Career and Financial Management is designed to promote career awareness/planning and financial literacy among young adults. Students will gain an understanding of and develop the skills and knowledge needed to be successful in a rapidly changing world. They will explore emerging workplace trends and develop critical employment skills, including resume writing and interviewing. Students will explore careers based upon their interests and aptitudes, with the goal of determining their best career path in life. Additional topics include much of what students will need to know to live independently, including budgeting, money management, understanding credit, insurance, and consumerism.

0303 PERSONAL LAW
Grade: 9,10,11,12
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
Exam: local
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
Exam: local
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
Exam: local
Reading Level: various
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
Exam: local
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.
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
Exam: local
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
Exam: local
Reading Level: various
Prerequisite: none
This course was designed for the student interested in a future in banking or the finance industry. It is also an excellent choice for anyone who wants to expand his/her knowledge of personal finance. This curriculum will present the principles and practices of banking. The credit component provides an overview of credit functions and operations including credit risk evaluation, loan creation, and debt collection. This course is open to all students, but is a required course for Academy of Finance students. Completion of this course will prepare students to operate the student-run credit union branch.

0340 iComp I (INTEGRATED COMPUTERS)
Grade: 9,10,11,12
Exam: local
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 or 2 units
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. 300 hours of outside work experience must be successfully completed for the second unit of credit.
* 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.
0383 ADVERTISING AND PUBLIC RELATIONS
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: 11,12  20 weeks - ½ unit
Exam: final project
Reading Level: various
Prerequisites: Application (usually during January of Junior Year), two faculty recommendations and interview
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. The 12th year elective program, which is also available to 11th graders, is designed to meet student interests and needs at various levels. The English Department has a summer reading program. Information is distributed in late May and posted on the OPHS website.
## English Course Offerings

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Credits</th>
<th>Grade Levels</th>
<th>Meetings Per Week</th>
<th>Reading Level</th>
<th>Exams</th>
</tr>
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<tbody>
<tr>
<td>1400</td>
<td>English 9</td>
<td>1</td>
<td>9</td>
<td>5</td>
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<td>L</td>
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<tr>
<td>1402</td>
<td>English 9 Honors</td>
<td>1H</td>
<td>9</td>
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<tr>
<td>1413</td>
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<td>1H</td>
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<tr>
<td>1420</td>
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<td>1423</td>
<td>A.P. English Language &amp; Composition</td>
<td>1H</td>
<td>11</td>
<td>5</td>
<td>AP</td>
<td>R/AP</td>
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<tr>
<td>1430</td>
<td>A.P. English Literature &amp; Composition I</td>
<td>½</td>
<td>12</td>
<td>5</td>
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<tr>
<td>1431</td>
<td>A.P. English Literature &amp; Composition II</td>
<td>½</td>
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<tr>
<td>1440</td>
<td>English Composition</td>
<td>½</td>
<td>11,12</td>
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<tr>
<td>1450</td>
<td>Contemporary Authors</td>
<td>½</td>
<td>11,12</td>
<td>5</td>
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<td>1455</td>
<td>Literature of Conflict</td>
<td>½</td>
<td>11,12</td>
<td>5</td>
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<tr>
<td>1456</td>
<td>Fright Fiction</td>
<td>½</td>
<td>11,12</td>
<td>5</td>
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<td>1460</td>
<td>Creative Writing Workshop</td>
<td>½</td>
<td>11,12</td>
<td>5</td>
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<td>1461</td>
<td>Drama</td>
<td>½</td>
<td>11,12</td>
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<td>1462</td>
<td>Journalism</td>
<td>½</td>
<td>11,12</td>
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<tr>
<td>1463</td>
<td>British Literature</td>
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<tr>
<td>1464</td>
<td>World Literature</td>
<td>½</td>
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<td>5</td>
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<td>1466</td>
<td>Multicultural Literature</td>
<td>½</td>
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<td>5</td>
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<tr>
<td>1469</td>
<td>Amer. Cultural &amp; Media Studies</td>
<td>½</td>
<td>11,12</td>
<td>5</td>
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<tr>
<td>1470</td>
<td>Public Speaking</td>
<td>½</td>
<td>11,12</td>
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<tr>
<td>1471</td>
<td>Fantasy &amp; Science Fiction</td>
<td>½</td>
<td>11,12</td>
<td>5</td>
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<td>L</td>
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<tr>
<td>1472</td>
<td>Sports Literature</td>
<td>½</td>
<td>11,12</td>
<td>5</td>
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<td>L</td>
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<tr>
<td>1474</td>
<td>Introduction to Poetry</td>
<td>½</td>
<td>11,12</td>
<td>5</td>
<td>V</td>
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<td>1490</td>
<td>ELA Lab</td>
<td>9,10,11,12</td>
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<tr>
<td>1491</td>
<td>Reading Lab</td>
<td>9,10,11,12</td>
<td>2/3</td>
<td>L</td>
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</tr>
</tbody>
</table>
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: honors
Prerequisite: Qualification for this course is based on student performance in the following three areas: 7th grade ELA final exam, Honors entrance test, and 8th grade ELA average at 30 weeks.
English 9 Honors is for ninth-graders with demonstrated interest and ability in English and who possess a solid, self-directed work ethic. The course provides instruction in writing and reading methods. Grammar and vocabulary development are stressed, as is the analytical study of literature. 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, memoir writing, 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 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: Honors
**Prerequisites**: Honors English 9, English 10 Honors Placement Exam and teacher recommendation
English 10 Honors is designed for the student who demonstrates, through consistent and conscientious work ethic, advanced abilities in reading, writing, and critical thinking. English 10 Honors students actively and thoughtfully read, analyze, and discuss literature, including fiction, nonfiction, poetry, and drama. Consistent with New York State’s Learning Standards, students produce various written works, including a personal narrative, though the course’s primary focus is on argumentative writing. In addition to various individual thesis essays, typically regarding works of literature, each student writes an extensive research thesis on a contemporary, real-world issue. Students conduct scholarly research in defense of their position and cite it according to current MLA standards. Oral presentations are also required.

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 placement exam with teacher recommendation. Advanced Placement English Language and Composition is for the student with superior skills in grammar, writing, and reading. Literature, both fiction and non-fiction, is analyzed. Extensive expository writing is required, demonstrating the ability to research, compile, organize, and present one’s ideas effectively. A thesis paper is a course requirement. Oral reports and presentations are required. Development of the skills necessary for success on the advanced placement examination in May is emphasized.

NOTE: Students who successfully complete AP Language and Composition may not take English Composition as an elective during their senior year.
**ENGLISH HALF-YEAR PROGRAM**

All seniors are required to select one half-year course designated as Reading and one half-year course designated as Writing. R (reading) and/or W (writing) is indicated under the course number. Seniors are encouraged to select more than two classes if their schedules allow.

NOTE: Regular attendance is necessary for success in half-year courses.

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

<table>
<thead>
<tr>
<th>Reading Courses</th>
<th>Writing Courses</th>
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<tr>
<td>Literature of Conflict</td>
<td>Journalism</td>
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<td>Fright Fiction</td>
<td>Creative Writing Workshop</td>
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<tr>
<td>Fantasy and Science</td>
<td>English Composition</td>
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<tr>
<td>Sports Literature</td>
<td>Honors Seminar in Humanities</td>
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**Courses Qualifying as Both Reading and Writing**

- AP English Literature and Composition I
- AP English Literature and Composition II
- British Literature
- Contemporary Authors
- Drama
- Environmental Literature
- American Cultural & Media Studies
- Multicultural Literature
- Public Speaking
- Introduction to Poetry
- World Literature

NOTE: Preference changes for half-year classes must be made by the June 1st deadline.
1430 AP ENGLISH LITERATURE AND COMPOSITION I
R/W Grade: 12
Exam: local
Reading Level: AP
Prerequisites: AP Language and Composition and/or teacher recommendation.
Advanced Placement Literature and Composition I 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.
NOTE: Advanced Placement Literature I is a prerequisite for Advanced Placement Literature II. These courses are paired 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.

1431 AP ENGLISH LITERATURE AND COMPOSITION II
R/W Grade 12
Exam: local/AP
Reading Level: AP
Prerequisite: AP Literature I
Advanced Placement Literature and Composition II is a follow-up to AP Literature and Composition I. In this class students will read a wide variety of poetry from various time periods and cultural perspectives, including poetry, drama, and fiction. Class activities focus on reading discussions and the building of analytical writing skills. Students will complete a lengthy paper aimed at developing a college level analytical claim. Class activities will again focus on reading discussions and the building of analytical writing skills.
NOTE: Students are required to take the Advanced Placement Literature and Composition exam in May.
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 as an elective 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, The Natural, by Bernard Malamud, and Wait Till Next Year, by Doris Kearns Goodwin. 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**

| Reading Level: various |

| Exam: local |

| Offering: by semester |

| 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**

| Exam: none |

| Offering: year long |

| 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**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Credits</th>
<th>Grade Levels</th>
<th>Meetings Per Week</th>
<th>Reading Level</th>
<th>Exams</th>
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<tr>
<td>3707</td>
<td>Fundamentals of Algebra</td>
<td>1</td>
<td>9,10</td>
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<tr>
<td>*3711</td>
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<tr>
<td>3716</td>
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<td>*3717</td>
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<td>*3719</td>
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<tr>
<td>*3720</td>
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<tr>
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<tr>
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<td>R</td>
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<tr>
<td>3734</td>
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<tr>
<td>+3738</td>
<td>Algebraic Techniques and Statistical Modeling (ATSM)</td>
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<td>11,12</td>
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<tr>
<td>3739</td>
<td>Trigonometry</td>
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<td>11,12</td>
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<tr>
<td>+3741</td>
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<td>3742</td>
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<td><strong>3761</strong></td>
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<td>L/M</td>
<td>L</td>
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<tr>
<td><strong>3762</strong></td>
<td>Computer Programming II</td>
<td>½</td>
<td>9,10,11,12</td>
<td>5</td>
<td>M/H</td>
<td>L</td>
</tr>
<tr>
<td><strong>3763</strong></td>
<td>Computer Programming in C++</td>
<td>1</td>
<td>10,11,12</td>
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<tr>
<td><strong>3764</strong></td>
<td>A.P. Computer Science (APCS-A)</td>
<td>1H</td>
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<td>L/AP</td>
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<tr>
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<td>A.P. Computer Science (APCS-P)</td>
<td>1H</td>
<td>11,12</td>
<td>5</td>
<td>AP/H</td>
<td>L/AP</td>
</tr>
</tbody>
</table>

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

** This course can fulfill the ½-unit requirement for computer literacy.

+ Receive college credit for this course.
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 Integrated Algebra I. This course will develop essential skills needed for algebra and problem solving strategies for “real-world” problems.
This course does not meet NCAA eligibility core-course requirements.

3711 ALGEBRA I (CC)
Grade: 9, 10  40 weeks/5 meetings per week – 1 unit
Exam: Regents  Offering: year long
Math Level: various
Prerequisite: Math 8
Algebra I is the first year in the New York State Common Core Regents sequence. This integrated 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. Using the skills based upon the Common Core Learning Standards, students will explore, conjecture, debate, and prove mathematical situations. Students in this course will take the Algebra I Regents exam in June.

3701 AIS ALGEBRA I
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. The goal of AIS is to hone in on the foundational skills needed to be successful on the Algebra 1 CC Regents Examination. Although the AIS course does not follow along with the Algebra 1 CC curriculum, 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 Algebra 1, students would meet 1/2 of the following criteria: Below 70% in 2 or more quarters in Math 8 or Fundamentals of Algebra, teacher recommendation.
3716 GEOMETRY
Grade: 10, 11, 12       40 weeks / 5 meetings per cycle
Exam: local             Offering: year long
Math level: low/average
Prerequisites: Algebra 1 and pass Algebra 1 Regents exam AND teacher recommendation
This 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)
Grade: 10, 11, 12       40 weeks / 5 meeting per week – 1 unit
Exam: Regents            Offering: year long
Math level: low/medium
Prerequisites: Pass both Algebra I and Algebra I Regents exam with teacher recommendation.
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 HONORS GEOMETRY (CC)
Grade: 9, 10             40 weeks / 5 meetings per week - 1H unit
Exam: Regents            Offering: year long
Math Level: high
Prerequisites: Algebra I and pass the Algebra I exam and teacher recommendation.
Honors Geometry is designed for students who have successfully completed Algebra I with a high level of achievement and is based on the Common Core Learning Standards. Students who complete this course with a high level of achievement should be prepared to take Honors Algebra II, Pre-Calculus BC, and Calculus BC. Students in this course will take the Geometry Regents exam in June.
3720 GEOMETRY (CC)
Grade: 9, 10, 11  
Exam: Regents  
Math Level: various  
Prerequisites: Algebra I and pass the Algebra I Regents exam.
Geometry is the second year of course work in the New York State Regents sequence and is based on the Common Core Learning Standards. 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  
Exam: none  
Reading Level: various  
Prerequisite: Meets entrance criteria  
AIS Geometry is for students experiencing difficulty with math skills. The goal of AIS is to hone in on the foundational skills needed to be successful on the Geometry CC Regents Examination. Although the AIS course does not follow along with the Geometry 1 CC curriculum, 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 Regents Exam score of 75% or lower, below 70% in 2 or more quarters in Algebra 1 CC, teacher recommendation.

3725 ALGEBRA II (CC)
Grade: 10, 11, 12  
Exam: Regents  
Math Level: average/various  
Prerequisites: Geometry and pass the Geometry Regents exam and teacher recommendation.
Algebra II is the third and final year of course work in the New York State Regents sequence and is based on the Common Core Learning Standards This course is designed to further develop algebraic and trigonometric skills and their real-world applications. Students in this course will take the Algebra II Regents exam in June.
3726 HONORS ALGEBRA II (CC)
Grade: 10, 11  
Exam: Regents  
Math Level: high
Prerequisites: Honors Geometry, pass the Geometry Regents exam and teacher recommendation.  
Honors Algebra II is designed for students who have successfully completed Honors Geometry with a high level of achievement. It is the third and final year of course work in the New York State Regents sequence and is based on the Common Core Learning Standards. Students who successfully complete this course should be prepared to take Pre-Calculus BC. A graphing calculator of the type recommended by the teacher will be used extensively in this course. This course is a prerequisite to Pre-Calculus BC. Students in this course will take the Algebra II Regents exam in June.

3734 ALGEBRA II/TRIG
Grade: 11, 12  
Exam: local  
Math Level: low/average
Prerequisite: Geometry (CC), Geometry B (CC), or 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  
Exam: local  
Math Level: various
Prerequisite: Algebra 1 and currently enrolled in any 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  
Exam: local/ECC  
Math Level: various  
Prerequisite: Algebra II, Intermediate Algebra, 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  
Exam: local/ECC  
Math Level: high  
Prerequisites: Algebra II (CC) 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
Exam: local/ AP
Math Level: Advanced Placement
Prerequisites: Algebra II (CC) 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 are required to take the AP Statistics exam. A graphing calculator will be used in the course. 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 his/her college, depending upon the AP exam score and the policy of the college.

3741 PRE-CALCULUS
Grade: 11, 12
Exam: local
Math Level: high
Prerequisites: Pass Algebra II and teacher recommendation.
Pre-Calculus is designed for students who have successfully completed Algebra II Common Core. 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
Exam: local
Math Level: high
Prerequisites: Honors Algebra II, pass the Algebra II Regents exam and teacher recommendation.
Pre-Calculus BC is designed for students who have successfully completed Algebra II with a very high level of achievement. Students who successfully complete this course should be prepared to take Calculus AB/BC. A graphing calculator, type to be recommended by the teacher, will be extensively used in this course. This course is a prerequisite to AP Math-Calculus AB/BC.
**3754 ADVANCED CALCULUS**

Grade: 12  
Exam: local/ECC  
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 AB/BC**

Grade: 12  
Exam: local/AP (Level BC)  
Math Level: Advanced Placement

**Prerequisites:** Pre-Calculus BC, and teacher recommendation.

Calculus AB/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 AB and BC will be covered. Students enrolled in this course are required to take an AP Math Exam in May. Students enrolled in this course are required to take the AP Math Level AB/BC Exam. A graphing calculator, type to be recommended by the teacher, will be extensively used in this course. This course may make it possible for a student to obtain college credit for Calculus at his/her college, depending upon the AP Exam score and the policy of the college.

**3761 COMPUTER PROGRAMMING I**

Grade: 9,10,11,12  
Exam: local  
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. This course fulfills the half-year computer credit.
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 **Corequisites:** 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.

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 writing project, a 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.
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

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Credits</th>
<th>Grade Levels</th>
<th>Meetings Per Week</th>
<th>Reading Level</th>
<th>Exams</th>
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</thead>
<tbody>
<tr>
<td>0251</td>
<td>Mixed Chorus</td>
<td>½</td>
<td>9,10,11,12</td>
<td>2/3</td>
<td>V</td>
<td>L</td>
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<td>0253</td>
<td>Girls Chorus</td>
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<td>Choraliers</td>
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<td>0271</td>
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<td>0273</td>
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<td>9,10,11,12</td>
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<td>V</td>
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<tr>
<td>0274</td>
<td>Concert Band</td>
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<td>9,10,11,12</td>
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<td>0275</td>
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<td>0276</td>
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<td>Checkmates</td>
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Musical Knowledge Courses

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<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Credits</th>
<th>Grade Levels</th>
<th>Meetings Per Week</th>
<th>Reading Level</th>
<th>Exams</th>
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<tbody>
<tr>
<td>0290</td>
<td>Music In Our Lives</td>
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<td>Basic Music Theory</td>
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<tr>
<td>0295</td>
<td>Music Composition</td>
<td>½</td>
<td>9,10,11,12</td>
<td>5</td>
<td>V</td>
<td>L</td>
</tr>
</tbody>
</table>

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:

<table>
<thead>
<tr>
<th>5 Unit Sequence</th>
<th>Credit Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>(2 courses from Skill Development, 2 courses from Musical Knowledge, &amp; 1 course from either)</td>
<td></td>
</tr>
<tr>
<td>Skill Development Courses</td>
<td>2</td>
</tr>
<tr>
<td>Musical Knowledge Courses</td>
<td>2</td>
</tr>
<tr>
<td>Choose (1) or 2 (1/2) credit courses from either category</td>
<td>1</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>5</strong></td>
</tr>
</tbody>
</table>

Music Course Descriptions

0251 MIXED CHORUS
0253 GIRLS 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 Girls 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. Students who join this class for primary reasons other than a genuine enjoyment of singing tend not to be as successful as those that joined to sing, almost exclusively.
0254 CHORALIERS
Grade: 10, 11, 12  
40 weeks/5 meetings per week – 1H unit
Exam: local  
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  
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  
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  
Exam: local  
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 advanced 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 both Advanced Music Theory and Music Composition.

**0292 ADVANCED MUSIC THEORY**
Grade: 10, 11, 12  
Exam: local/AP  
Music Experience: high  
Prerequisite: Basic Music Theory
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  
Exam: local  
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 Offerings Table]

**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 $\frac{1}{2}$ 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
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
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  
**Exam:** local  
**Offering:** both semesters

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  
**Exam:** local  
**Offering:** both semesters

**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 $35 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 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.
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

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Credits</th>
<th>Grade Levels</th>
<th>Meetings Per Cycle</th>
<th>Reading Level</th>
<th>Exams</th>
</tr>
</thead>
<tbody>
<tr>
<td>4494</td>
<td>General Earth Science</td>
<td>1</td>
<td>9</td>
<td>6</td>
<td>L/M</td>
<td>L</td>
</tr>
<tr>
<td>4504</td>
<td>Regents Earth Science</td>
<td>1</td>
<td>9,10,11</td>
<td>8</td>
<td>M/H</td>
<td>R</td>
</tr>
<tr>
<td>4506</td>
<td>Regents Biology B</td>
<td>1</td>
<td>9,10,11,12</td>
<td>8</td>
<td>L/M</td>
<td>R</td>
</tr>
<tr>
<td>4508</td>
<td>Regents Biology A</td>
<td>1</td>
<td>10,11,12</td>
<td>8</td>
<td>M/H</td>
<td>R</td>
</tr>
<tr>
<td>4510</td>
<td>Advanced Biology</td>
<td>1H</td>
<td>11,12</td>
<td>6</td>
<td>H</td>
<td>L/A</td>
</tr>
<tr>
<td>4511</td>
<td>Comparative Vertebrate</td>
<td>½</td>
<td>10,11,12</td>
<td>6</td>
<td>M/H</td>
<td>L</td>
</tr>
<tr>
<td></td>
<td>Anatomy</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>4512</td>
<td>Genetics</td>
<td>1</td>
<td>10,11,12</td>
<td>6</td>
<td>M/H</td>
<td>L</td>
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<tr>
<td>4521</td>
<td>General Chemistry</td>
<td>1</td>
<td>11,12</td>
<td>6</td>
<td>M</td>
<td>L</td>
</tr>
<tr>
<td>4523</td>
<td>Regents Chemistry</td>
<td>1</td>
<td>10,11,12</td>
<td>8</td>
<td>M/H</td>
<td>R</td>
</tr>
<tr>
<td>4525</td>
<td>Advanced Chemistry</td>
<td>1H</td>
<td>11,12</td>
<td>6</td>
<td>H</td>
<td>L/A</td>
</tr>
<tr>
<td>4551</td>
<td>General Physics</td>
<td>1</td>
<td>11,12</td>
<td>6</td>
<td>M</td>
<td>L</td>
</tr>
<tr>
<td>4553</td>
<td>Regents Physics</td>
<td>1</td>
<td>11,12</td>
<td>8</td>
<td>M/H</td>
<td>R</td>
</tr>
<tr>
<td>4555</td>
<td>A.P. Physics</td>
<td>1H</td>
<td>12</td>
<td>6</td>
<td>H</td>
<td>L/A</td>
</tr>
<tr>
<td>4577</td>
<td>Ecology</td>
<td>½</td>
<td>10,11,12</td>
<td>6</td>
<td>M</td>
<td>L</td>
</tr>
<tr>
<td>4578</td>
<td>Astronomy</td>
<td>½</td>
<td>10,11,12</td>
<td>6</td>
<td>M/H</td>
<td>L</td>
</tr>
<tr>
<td>4579</td>
<td>Oceanography</td>
<td>½</td>
<td>10,11,12</td>
<td>6</td>
<td>M</td>
<td>L</td>
</tr>
<tr>
<td>4580</td>
<td>Disasters</td>
<td>½</td>
<td>10,11,12</td>
<td>6</td>
<td>M</td>
<td>L</td>
</tr>
</tbody>
</table>
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 3th 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, and Disasters 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.
Science Flow Chart

Regents or General Earth Science

Regents Biology A or B

Regents or General Chemistry

Regents or General Physics

Advanced Biology

Advanced Chemistry

Ecology
Oceanography
Astronomy
Genetics
AP Physics
Disasters

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

4494 GENERAL EARTH SCIENCE
Grade 9
Exam: local
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
Exams: Regents
Reading Level: medium/high
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
Exam: Regents
Reading Level: low/medium
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  
Exam: local  
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.

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**4512 GENETICS**

Grade: 10, 11, 12  
Exam: Local  
Reading Level: medium/high  
Offering: various  

**Prerequisites:** Biology and Earth Science and teacher recommendation.  

**Pre or Corequisite:** Chemistry  

Genetics offers the interested science student an additional choice in biological science. The laws of genetics, chemical structure of chromosomes and genes, protein formation, gene regulation and expression, and mutant genes in the human population are the topics developed. Issues related to bioethics are 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
of chemistry, classification of matter, separation of mixtures, atomic theory,
the Periodic Table, chemical bonding, and chemical reactions. As time
permits, other topics of study may include nuclear chemistry, organic
chemistry, chemistry of foods, or environmental chemistry.
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.

4523 REGENTS CHEMISTRY
Grade: 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
Prerequisites: Earth Science and Algebra I (CC) and teacher recommendation.
Pre or Corequisite: Geometry (CC) (or permission from House Principal) and
Biology
Regents Chemistry is designed to provide the foundation necessary for
advanced work in the natural and physical sciences. Atomic structure,
chemical bonding, composition of matter, classes of compounds, behavior of
gases, kinetics of reactions, equilibria, thermodynamics, acids and bases,
electrochemistry, and organic chemistry are the major areas presented.
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.
4525 ADVANCED CHEMISTRY
Grade: 11,12  40 weeks/5 meetings per week – 1 H unit
Exam local  Offering: year long
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  
Exam: Regents  
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  
Exam: Local/AP (Part 1)  
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  
Exam: local  
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  
Exam: local  
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  
Exam: Local  
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
Exam; Local

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.
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.
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

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Credits</th>
<th>Grade Levels</th>
<th>Meetings Per Week</th>
<th>Reading Level</th>
<th>Exams</th>
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<tr>
<td>2615</td>
<td>Advanced World History 9</td>
<td>1H</td>
<td>9</td>
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<td>2616</td>
<td>A.P. World History 10</td>
<td>1H</td>
<td>10</td>
<td>5</td>
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<td>R/AP</td>
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<tr>
<td>2600</td>
<td>Global History 9 (R)</td>
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<td>5</td>
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<td>Global History 10 (R)</td>
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<td>2651</td>
<td>A.P. European History</td>
<td>1H</td>
<td>10,11,12</td>
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<tr>
<td>2620</td>
<td>U.S. History &amp; Government (R)</td>
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<td>11</td>
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<tr>
<td>2624</td>
<td>A.P. United States History</td>
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<td>11</td>
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<td>2630</td>
<td>Economics, the Enterprise System, &amp; Finance</td>
<td>½</td>
<td>12</td>
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<td>2632</td>
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<td>2636</td>
<td>A.P. Macro Economics</td>
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<td>2660</td>
<td>Government</td>
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<tr>
<td>2665</td>
<td>A.P. U.S. Government &amp; Politics</td>
<td>½H</td>
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<td>2652</td>
<td>C.O.P.S. – Crime or Punishment in Society</td>
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<td>5</td>
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<td>0628</td>
<td>America’s Visual Edge</td>
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<tr>
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<td>History of Athletics</td>
<td>½</td>
<td>9,10,11,12</td>
<td>5</td>
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<td>L</td>
</tr>
<tr>
<td>2656</td>
<td>Human Rights</td>
<td>½</td>
<td>11,12</td>
<td>5</td>
<td>V</td>
<td>L</td>
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</tbody>
</table>

### Social Studies Electives
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 ½ 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

Global 9
(Full Year)

Adv. World 9
(Full Year)

Global 10
(Full Year)

AP Euro
(Full Year)

AP World 10
(Full Year)

US 11
(Full Year)

AP US 11
(Full Year)

AP Gov
(1/2 Year)

Government
(1/2 Year)

AP Macro Econ
(1/2 Year)

Corp Econ
(1/2 Year)

Economics
(1/2 Year)

Seniors must complete one Economics course and one Government course

Electives

Psychology
(1/2 Year)
10th—12th

Sociology
(1/2 Year)
10th—12th

C.O.P.S.
(1/2 Year)
10th—12th

Honors Seminar
(1/2 Year)
12th Only

Canadian Studies
(1/2 Year)
9th & 10th

America’s Visual Edge
(1/2 Year)
10th—12th

History of Athletics
(1/2 Year)
9th—12th

Human Rights
(1/2 Year)
11th & 12th
2615 ADVANCED WORLD HISTORY 9
Grade: 9
Exam: local
Reading Level: high
Prerequisites: Middle school teacher recommendation, entrance exam, and summer reading assignment.
AP 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
Exam: Regents and AP
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  
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. In addition to covering the Regents United States History and Government syllabus, students will be expected to read conflicting interpretations of American history and to analyze these interpretations in discussion and in research based papers. Students will develop skills in interpreting primary and secondary sources. This course will be organized chronologically with emphasis on the time period 1865 to the present.

All students will take both the U.S. History and Government Regents exam and the Advanced Placement exam. Students will complete a summer reading and writing assignment.
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
Exam: local
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
Exam: local
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
Exam: local
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 must 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
Exam: local (Class Project)
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: 10, 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
Exam: local
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
Exam: local
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 – ½ H 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. Exceptional juniors may be admitted with instructors' consent. 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.
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
Exam: local evaluation
Reading Level: various
Offering: Semester 1
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 Enrolled in Technical Education classes qualify them to participate in the Technology and/or STEM Clubs.

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.
# Technology Education Course Offerings

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Credits</th>
<th>Grade Levels</th>
<th>Meetings Per Week</th>
<th>Reading Level</th>
<th>Exams</th>
</tr>
</thead>
<tbody>
<tr>
<td>++ 0801</td>
<td>Entrepreneurship in Production Systems</td>
<td>1</td>
<td>9.10, 11.12</td>
<td>5</td>
<td>V</td>
<td>L</td>
</tr>
<tr>
<td>+ 0840</td>
<td>Communication Systems</td>
<td>½</td>
<td>9.10, 11.12</td>
<td>5</td>
<td>V</td>
<td>L</td>
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<tr>
<td>0825</td>
<td>Energy</td>
<td>½</td>
<td>9.10, 11.12</td>
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<tr>
<td>++ 0843</td>
<td>Entrepreneurship in Graphic Communications</td>
<td>1</td>
<td>9.10, 11.12</td>
<td>5</td>
<td>V</td>
<td>L</td>
</tr>
<tr>
<td>+ 0850</td>
<td>Technical Drawing</td>
<td>½</td>
<td>9.10, 11.12</td>
<td>5</td>
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<td>L</td>
</tr>
<tr>
<td>+ 0864</td>
<td>Drawing &amp; Design for Production (DDP)</td>
<td>1</td>
<td>9.10, 11.12</td>
<td>5</td>
<td>V</td>
<td>L</td>
</tr>
<tr>
<td>0700</td>
<td>Media Productions</td>
<td>1</td>
<td>9.10, 11.12</td>
<td>5</td>
<td>V</td>
<td>L</td>
</tr>
<tr>
<td>0810</td>
<td>Woodworking Technology</td>
<td>½</td>
<td>9.10, 11.12</td>
<td>5</td>
<td>V</td>
<td>L</td>
</tr>
<tr>
<td>0811</td>
<td>Construction Technology</td>
<td>1</td>
<td>9.10, 11.12</td>
<td>5</td>
<td>V</td>
<td>L</td>
</tr>
<tr>
<td>0812</td>
<td>Furniture Production</td>
<td>½</td>
<td>10.11, 12</td>
<td>5</td>
<td>V</td>
<td>L</td>
</tr>
<tr>
<td>0815</td>
<td>Home Maintenance &amp; Repair</td>
<td>½</td>
<td>9.10, 11.12</td>
<td>5</td>
<td>V</td>
<td>L</td>
</tr>
<tr>
<td>0820</td>
<td>Basic Auto Maintenance</td>
<td>½</td>
<td>10.11, 12</td>
<td>5</td>
<td>V</td>
<td>L</td>
</tr>
<tr>
<td>0821</td>
<td>Small Engine Technology</td>
<td>½</td>
<td>9.10, 11.12</td>
<td>5</td>
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</tr>
<tr>
<td>0830</td>
<td>Photography I</td>
<td>½</td>
<td>9.10, 11.12</td>
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<tr>
<td>0831</td>
<td>Photography II</td>
<td>½</td>
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<tr>
<td>0832</td>
<td>Digital Imagery /Photoshop</td>
<td>½</td>
<td>9.10, 11.12</td>
<td>5</td>
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<td>L</td>
</tr>
<tr>
<td>++*0841</td>
<td>Computer Applications</td>
<td>½</td>
<td>9.10, 11.12</td>
<td>5</td>
<td>V</td>
<td>L</td>
</tr>
<tr>
<td>** 0842</td>
<td>Communications Systems/ Computer Applications</td>
<td>1</td>
<td>9.10, 11.12</td>
<td>5</td>
<td>V</td>
<td>L</td>
</tr>
<tr>
<td>*</td>
<td>Computer Applications</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>++ 0844</td>
<td>Computer Aided Drawing (CAD Drafting)</td>
<td>½</td>
<td>9.10, 11.12</td>
<td>5</td>
<td>V</td>
<td>L</td>
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<tr>
<td>0845</td>
<td>Computer Integrated Manufacturing (CIM)</td>
<td>1</td>
<td>10.11, 12</td>
<td>5</td>
<td>V</td>
<td>L</td>
</tr>
<tr>
<td>0852</td>
<td>Civil Engineering and Architecture (CEA)</td>
<td>1</td>
<td>10.11, 12</td>
<td>5</td>
<td>V</td>
<td>L</td>
</tr>
<tr>
<td>0853</td>
<td>Architectural Model Making</td>
<td>1</td>
<td>11.12</td>
<td>5</td>
<td>V</td>
<td>L</td>
</tr>
<tr>
<td>0865</td>
<td>Principles of Engineering (POE)</td>
<td>1</td>
<td>11.12</td>
<td>5</td>
<td>V</td>
<td>L</td>
</tr>
</tbody>
</table>

* This course will be required for all students who plan to receive a 5 unit combination in Technology Education.

** This course may be used to fulfill the ½ Art/Music and ½ Computer requirements for graduation.

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

++ This course will fulfill the ½ unit computer requirement for graduation.
Career Exploration
Entrepreneurship in Graphic Communications (0843)
Entrepreneurship in Production Systems (0801)

Materials Processing
Woodworking Technology (0810)
Construction Technology (0811)
Furniture Production (0812)
Home Maintenance & Repair (0815)

Energy and Transportation
Small Engine Technology (0821)
Basic Auto Maintenance (0820)
Energy (0825)

Engineering
Computer Aided Drawing (CAD) (0844)
Computer Integrated Machining (CIM) (0845)
Technical Drawing (0850)
Civil Engineering and Architecture (CEA) (0852)
Architectural Model Making (0853)
Drawing for Design Production (DDP) (0864)
Principles of Engineering (POE) (0865)

Communications
Media Productions (0700)
Photo I (0830)
Photo II (0831)
Digital Imagery & Photo (0832)
Communications Systems (0840)
Communications Systems/Computer Applications (0842)

Computers
Computer Applications (0841)

Students pursuing an Advanced Regents diploma may choose to complete 1 unit of
Foreign Language AND one of the 5-unit alternative sequences.
Please see Graduation Requirement, page 4.
Technology Education Course Descriptions

Material Processing Courses

0801 ENTREPRENEURSHIP IN PRODUCTION SYSTEMS
Grade: 9, 10, 11, 12
Exam: local
Reading Level: various
Prerequisite: none

In Entrepreneurship in Production Systems, students will apply entrepreneurial ideas to a product design and develop a business plan to form a corporation. The company develops the system to manufacture and sell the product. Students will be introduced to the design and production process as well as the business and marketing process. Units will consist of design, development, prototyping, production, marketing, and sales. They will be involved in every aspect of the process. Students will be using many different computer programs in the design process, machine tools in the production process, and video equipment, video editing software, Adobe Photoshop, Adobe Illustrator in the marketing process. The products created in this class will primarily be fabricated from wood and other easily machined materials.

0810 WOODWORKING TECHNOLOGY
Grade: 9, 10, 11, 12
Exam: local
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 will be assessed a materials and supplies fee based on the species of wood chosen for their projects.
0811 CONSTRUCTION TECHNOLOGY
Grade: 9, 10, 11, 12
Exam: local
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.

0812 FURNITURE PRODUCTION
Grade: 10, 11, 12
Exam: local
Reading Level: various
Prerequisite: Instructor’s approval / Wood Tech

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 will be assessed a materials and supplies fee based on the species of wood chosen for their projects.

0815 HOME MAINTENANCE AND REPAIR
Grade: 9, 10, 11, 12
Exam: Local
Reading Level: various
Prerequisite: none

Home maintenance and repair is an elective 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, doors and windows, concrete, electrical, heating systems, insulation and many other household areas.
STEM/Engineering Courses

0844 COMPUTER AIDED DRAWING (CAD)
Grade: 9, 10, 11, 12  20 weeks/5 meetings per week - ½ unit
Exam: local          Offering: by semester
Reading Level: various May be used for ½ Computer
Prerequisite: Technical Drawing or DDP
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 a 3-D printer, which prints the CAD drawing as a 3-D model in ABS plastic. It should be understood that the knowledge of applied mathematics and geometry are often used. This course is recommended for those students who are considering the POE class and is required for the Computer Integrated Manufacturing (CIM) class.

0845 COMPUTER INTEGRATED MANUFACTURING (CIM)
Grade: 10, 11, 12  40 weeks/5 meetings per week- 1 unit
Exam: local          Offering: year long
Reading level: various
Prerequisite: CAD and Tech Drawing or DDP
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 MasterCam, a CAM software, used to generate numerical code that our CNC router needs to fabricate the parts. Many of the parts may be fabricated from CAD drawings utilizing our 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.
0850 TECHNICAL DRAWING
Grade: 9, 10, 11, 12 20 weeks/5 meetings per week – ½ unit
Exam: local Offering: by semester
Reading Level: various May be used for ½ unit Art/Music
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.

0852 CIVIL ENGINEERING AND ARCHITECTURE (CEA)
Grade: 10, 11, 12 40 weeks/5 meetings per week – 1 unit
Exam: local Offering: year long
Reading Level: various
Prerequisites: Technical Drawing and grade level requirement or instructor's permission
Civil Engineering And Architecture (CEA) is a yearlong STEM course that provides students an overview of the fields of civil engineering and architecture, while providing exploration into the areas of interior design and construction. This course provides the students with a combination of instrument drafting skills and use of state of the art software to solve real world problems. This course covers topics such as: the roles of civil engineers and architects; project planning; site planning; building design; utilization of surveying equipment (transits, levels, lasers). A comprehensive portfolio of original, residential home designs are created for those students who are interested in the career fields of civil engineering, architecture and construction.
0853 ARCHITECTURAL MODEL MAKING
Grade: 11, 12
Exam: local
Reading Level: various
Prerequisites: Technical Drawing, Civil Engineering & Architecture and grade level requirements.
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.

0864 DRAWING & DESIGN FOR PRODUCTION (DDP)
Grade: 9, 10, 11, 12
Exam: local
Reading Level: various
Prerequisites: none
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.

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 will be used to construct lab based projects using hand and power tools. Hands-on projects may include air, land and water vehicles, structures, furniture, skateboards, robotics, wind turbines, T-shirt graphics design, and Web page design. Applying creative problem solving and engineering design processes, students will prepare their projects for testing, evaluation, and/or competitions. Students may use DDP for a Tech. Ed. credit and the Art/Music graduation requirement.
0865 PRINCIPLES OF ENGINEERING (POE)
Grade: 11, 12
Exam: local
Reading Level: high
Prerequisite: Technical Drawing and CAD are suggested
PRINCIPLES OF ENGINEERING (POE) is a capstone, STEM/engineering course for those students considering engineering at the collegiate level. This year’s long course is designed to engage students in various fields of engineering. POE students will explore a range of technological systems, manufacturing processes, and how engineers/technicians use math, science and technology in engineering as a problem-solving tool. 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. The course also includes concerns about social and political consequences of technological change.

Communications Courses

0700 MEDIA PRODUCTIONS
Grade: 9,10,11,12
Exam: local
Reading Level: various
Prerequisite: none
This full year, hands-on course allows students to create a digital yearbook that reflects their experiences during their secondary education and to produce video and audio productions. We will be working with video cameras, audio equipment, editing equipment as well as studying the marketing and advertising aspect of media productions. Students will work on PC and Macintosh computers with a variety of software including Final Cut Express Adobe Premiere and After Effects for video editing and Pro Tools 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
Exam: local
Reading Level: various
Prerequisite: none
Photography 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 software, matting and presentation of the photograph. The course will be divided between photo assignments and lab work. A camera is required for the course.

0831 PHOTOGRAPHY II
Grade: 9, 10, 11, 12
Exam: local
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 camera is required for the course. A Digital Single Lens Reflex camera is highly recommended.

0832 DIGITAL IMAGERY/PHOTOSHOP
Grade: 9, 10, 11, 12
Exam: local
Reading Level: various
Prerequisite: none
This course deals with the creation and application of digital imagery and photography. Students will be taught how to 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.
0840 COMMUNICATIONS SYSTEMS
Grade: 9, 10, 11, 12
20 weeks/5 meetings per week – ½ unit
Exam: local
Offering: by semester
Reading Level: various
May be used for ½ unit Art/Music
Prerequisite: none
Communication Systems is an exciting course that allows the students to learn about Adobe Suite video editing software and the Windows computer environment. Students in this class will make a variety of videos. Students will learn how to create a “green screen” color key in the style of “Whose Line is it Anyway”, craft a parody in the style of “Saturday Night Live”, turn 100 photos into a picture project with music, create a music video like those on TV as well as other fun projects. This course qualifies students to become a member of QTV morning announcements.

NOTE: This course can be combined with COMPUTER APPLICATIONS (0841). This course will then be a one credit, full year course with the emphasis on the many computer programs geared towards STEM education and Desktop Publishing. This combined course will fulfill ½ credit for Art/Music AND ½ credit for Computer Requirement.

0842 COMMUNICATION SYSTEMS/COMPUTER APPLICATIONS
Grade: 9, 10, 11, 12
40 weeks/5 meetings per week – 1 unit
Exam: Local
Offering: year long
Reading Level: various
May be used for ½ unit Art/Music and
Prerequisite: Computer
This course combines Communication Systems (0840) and Computer Applications (0841) to form a full year 1 credit course. This combination allows us to have more time so that we can explore more areas relative to the computer and its software, video productions, audio productions, planning and editing. This course qualifies students to become a member of QTV morning announcements.

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 primarily for the student who has very little or no experience or knowledge of the basic functions and maintenance of automobiles. 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.
0821 SMALL ENGINE TECHNOLOGY
Grade: 9, 10, 11, 12
Exam: local
Reading Level: various
Prerequisite: none
Small Engine Technology will allow students to work on a basic lawn mower engine. Through hands-on activities in class, students will get a first-hand view of the working parts both outside and inside their lawn mower engine. This course requires students to bring in a 4-cycle lawn mower engine (no larger than 7 horsepower) to work on in class.

0825 ENERGY
Grades: 9, 10, 11, 12
Exam: local
Reading Level: various
Prerequisite: none
This course will give the students a basic overview of the development and applications of various renewable and non-renewable types of energy. Students will complete hands-on activities through a series of problem solving labs. Projects may include building a hydraulic robot, solar model, hydrogen fuel cells, conventional and alternative energy sources and models in the area of air and propeller powered vehicles.

Computer Courses

0841 COMPUTER APPLICATIONS
Grades: 9, 10, 11, 12
Exam: local
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.

NOTE: This course can be combined with COMMUNICATIONS SYSTEMS (0840). This will then be a one credit, full year course with emphasis on the many computer programs geared towards STEM education. This course will fulfill the ½ credit for Computer requirement.
0843 ENTREPRENEURSHIP IN GRAPHIC COMMUNICATIONS

Grade: 10, 11, 12        40 weeks/5 meetings per week – 1 unit
Exam: local                Offering: year long
Reading Level: various     May be used for ½ unit Art/Music and ½
unit Computer

Prerequisite: Computer Application, Photo I, or Digital Imagery
Entrepreneurship in Graphic Communication introduces the process of the
printing and publishing industry. This course is influenced by a highly
computerized field that uses sophisticated computer programs such as Adobe
Photoshop, Adobe Illustrator, Roland Versaworks, along with the use of a state
of the art Vinyl/Cutter printer:

The course consists of modules, where students design and create media such
as decals, logos, banners, signage, and posters, as the end product of a
student-run business. This year long course emphasizes the personal,
business, and economic system focusing on design and innovation. Hands-on
learning accounts for 75% of the instructional time with many of the projects
revolving around the graphic design industry. The other 25% of instructional
time is dedicated to learning programs and building a successful business
model. Career opportunities will also be explored in the graphic
communications field.
STEM in the Orchard Park Central School District consists of a conglomeration of classes relevant to Science, Technology, Engineering and Mathematics (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.

<table>
<thead>
<tr>
<th>GRADE</th>
<th>MATH</th>
<th>SCIENCE</th>
<th>TECHNOLOGY EDUCATION</th>
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<tr>
<td>8</td>
<td>Algebra I</td>
<td>Earth Science</td>
<td>MS required courses</td>
</tr>
<tr>
<td>9</td>
<td>Geometry</td>
<td>Biology – R</td>
<td>Drawing &amp; Design for Production Computer Application Communication Systems</td>
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<tr>
<td>10</td>
<td>Algebra II/CC Programming</td>
<td>Chemistry – R</td>
<td>CAD Graphic Communications Constructions Tech Energy</td>
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</table>

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The world language program is designed to aid the student in developing listening, speaking, reading, and writing 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 modern 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

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Credits</th>
<th>Grade Levels</th>
<th>Meetings Per Week</th>
<th>Reading Level</th>
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</tbody>
</table>
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 "IM" 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. The criteria that the middle school teachers will use in making their recommendations are as follows:

**French/Spanish I**

A student should be placed in one of these sections if his/her world language average is below 65% (EVEN IF THE STUDENT HAS PASSED THE French/Spanish I TEST).

**French IIa**

To qualify, a student should:

a. demonstrate average aptitude and ability in the world language;

b. have an average of at least 65%;

c. have passed the French I exam.

**French IIb**

To qualify, a student should:

a. demonstrate average aptitude and ability in the world language;

b. have an average of at least 65%;

c. have passed the French I exam.

**Spanish IIa**

To qualify, a student should:

a. demonstrate average aptitude and ability in the world language;

b. have an average of at least 75%;

c. have passed Spanish I exam.
Spanish IIb
To qualify, a student should:
a. demonstrate average aptitude and ability in the world language;
b. have an average of at least 65%;
c. have passed the Spanish I exam.
The middle school teachers make initial recommendations in late winter and update recommendations in June following final grade reporting.

World Languages Flow Chart

FRENCH FLOW CHART

I/IM* — Ila — IIIa — HONORS IV — ADV. PLACEMENT

/IIb — IIIb — FRENCH IV – VIEW OF FRANCE or THE FRENCH SPEAKING WORLD

SPANISH FLOW CHART

I/IM* — Ila — IIIa — HONORS IV — ADV. PLACEMENT

/IIb — IIIb — SPANISH IV – VIEW OF SPAIN or THE SPANISH SPEAKING WORLD

*IM courses offered over a two-year period in grades 7 and 8 for which 1 credit may be granted if the student passes the level 1 exam.

LATIN FLOW CHART

I — II — III — ADV. PLACEMENT/LATIN IV HONORS
World Languages Course Descriptions

5211 FRENCH I
Grade: 9, 10, 11, 12

Exam: local
Offering: year long

Reading Level: low

Prerequisite: none

French I is an introduction to the French language. However, it is neither a basic nor a general course. It is the first course of a 3-year sequence in French. The course focuses on listening, speaking, reading and writing at a functional proficiency level. Cultural information about French-speaking countries and their geographies will be presented primarily in English. Other cultural topics include: family life, transportation, holidays, special interest and leisure activities, and how French young people and American young people are similar and different. Students who successfully complete this course will be advised to enroll in French II the following year.

5212 FRENCH IIa
Grade: 9, 10, 11, 12

Exam: local
Offering: year long

Reading Level: low/medium

Prerequisites: French I and teacher recommendation

This is the second course in a 3-year sequence in French. French II, a continuation of French I, expands functional oral and written communication and cultural studies. Listening, speaking, reading and writing skills are further developed.

5210 FRENCH IIb
Grade: 9, 10, 11, 12

Exam: local
Offering: year long

Reading Level: low/medium

Prerequisites: French I and teacher recommendation

This is the second course in a 3-year sequence in French. French IIb, being a continuation of French I, gradually expands functional oral and written communication and cultural studies. Listening, speaking, reading and writing skills are further developed.
5215 FRENCH IIIa
Grade: 10, 11, 12  40 weeks/5 meetings per week – 1 unit
Exam: Regional  Offering: year long
Reading Level: medium
Prerequisites: French II 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. Listening, speaking, reading and writing skills are extensively developed. Oral projects are assigned. Short paragraphs are frequently written. Grammatical structures of a more complex nature are integrated in the four skills. Upon completion of this course, all students will take a Regional exam in French.

5216 FRENCH IIIb
Grade: 10, 11, 12  40 weeks/5 meetings per week – 1 unit
Exam: Regional  Offering: year long
Reading Level: medium
Prerequisites: French II and teacher recommendation
This is the third course in a 3-year sequence in French. Listening, speaking, reading and writing skills are continually developed. Oral projects are assigned. Short paragraphs are written. A few grammatical structures of a more complex nature are gradually integrated in the four skills. Upon completion of this course, all students will take a Regional exam in French.

5217 HONORS FRENCH IV
Grade: 11, 12  40 weeks/5 meetings per week – 1H unit
Exam: local  Offering: year long
Reading Level: medium/high
Prerequisites: French III and teacher recommendation
Honors French IV is designed to develop greater expertise in French. This course prepares students in advanced level listening, speaking, reading and writing and is a prerequisite for the Advanced Placement course. A minimum average of 85% in French III is recommended for those who wish to take this course.
5218 FRENCH IV - THE FRENCH SPEAKING WORLD
Grade: 11, 12 40 weeks/5 meetings per week – 1 unit
Exam: local  Offering: year long
Reading level: medium/high
Prerequisites: French III and teacher recommendation
This French elective is intended for those students who desire to continue their language study beyond the French III requirement. The curriculum aims to build on the student’s previous years of French language study 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 many French speaking countries.

5219 ADVANCED PLACEMENT FRENCH LANGUAGE & CULTURE
Grade: 12 40 weeks/5 meetings per week- 1H unit
Exam: local/AP  Offering: year long
Reading Level: high/AP
Prerequisites: Honors French IV and teacher recommendation
This course is designed to sharpen listening, speaking, reading and writing skills through college-level exercises. Daily discussion, conducted in French, focuses on topics of general interest or cultural significance, and current world problems. Authentic documents and literary excerpts are used as a basis for discussion. Students are required to take the Advanced Placement Exam in May. A minimum average of 85% in Honors French IV is recommended for those who wish to take this course.

5220 FRENCH IV - VIEW OF FRANCE
Grade: 11, 12 40 weeks/5 meetings per week – 1 unit
Exam: local  Offering: year long
Reading level: medium/high
Prerequisites: French III and teacher recommendation
This French elective is intended for those students who desire to continue their language study beyond the French III requirement.

The curriculum aims to build on the student’s previous years of French language study 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 the country of France.
5221 SPANISH I
Grade: 9, 10, 11, 12
Exam: local
Reading Level: low
Prerequisite: none
Spanish I is an introduction to the Spanish language. However, it is neither a basic nor a general course. It is the first course in a 3-year sequence in Spanish. The course focuses on listening, speaking, reading and writing at a functional proficiency level. Cultural information about Spanish-speaking countries and their geographies will be presented primarily in English. Other cultural topics include family life, transportation, holidays, special interests and leisure activities, and how Spanish young people and American young people are similar and different. Students who successfully complete this course will be advised to enroll in Spanish II the following year.

5222 SPANISH IIa
Grade: 9, 10, 11, 12
Exam: local
Reading Level: low/medium
Prerequisites: Spanish I and teacher recommendation
This is the second course in a 3-year sequence in Spanish. Spanish II, being a continuation of Spanish I, expands functional oral and written communication and cultural studies. Listening, speaking, reading and writing skills are further developed.

5224 SPANISH IIb
Grade: 9, 10, 11, 12
Exam: local
Reading Level: low/medium
Prerequisites: Spanish I and teacher recommendation
This is the second course in a 3-year sequence in Spanish. Spanish IIb, being a continuation of Spanish I, gradually expands functional oral and written communication and cultural studies. Listening, speaking, reading and writing skills are further developed.
5225 SPANISH IIIa
Grade: 10, 11, 12  40 weeks/5 meetings per week – 1 unit
Exam: Regional  Offering: year long
Reading Level: medium
Prerequisites: Spanish II and teacher recommendation
This is the third course in a 3-year sequence in Spanish. Listening, speaking, reading and writing skills are extensively developed. Oral projects are assigned. Short paragraphs are frequently written. Grammatical structures of a more complex nature are integrated in the four skills. Upon completion of this course, all students will take a Regional exam in Spanish.

5228 SPANISH IIIb
Grade: 10, 11, 12  40 weeks/5 meetings per week – 1 unit
Exam: Regional  Offering: year long
Reading Level: medium
Prerequisites: Spanish II and teacher recommendation
This is the third course in a 3-year sequence in Spanish. Listening, speaking, reading and writing skills are continually developed. Oral projects are assigned. Short paragraphs are written. A few grammatical structures of a more complex nature are gradually integrated in the four skills. Upon completion of this course, all students will take a Regional exam in Spanish.

5227 HONORS SPANISH IV
Grade: 11, 12  40 weeks/5 meetings per week – 1H unit
Exam: local  Offering: year long
Reading Level: medium/ high
Prerequisites: Spanish III and teacher recommendation
Honors Spanish IV is designed to develop greater expertise in Spanish. This course prepares students in advanced level listening, speaking, reading and writing and is a prerequisite for the Advanced Placement course. A minimum average of 85% in Spanish III is recommended for those who wish to take this course.
5229 ADVANCED PLACEMENT SPANISH LANGUAGE & CULTURE
Grade: 12
40 weeks/5 meetings per week – 1H unit
Exam: local/AP
Offering: year long
Reading Level: high/AP
Prerequisites: Honors Spanish IV and teacher recommendation
The course is designed to sharpen listening, speaking, reading and writing skills through college-level exercises. Daily discussions, conducted in Spanish, focus on topics of general interest or cultural significance, and current world problems. Authentic documents and literary excerpts are used as a basis for discussion.

Students are required to take the Advanced Placement Exam in May. A minimum average of 85% in Honors Spanish IV is recommended for those who wish to take this course.

5239 SPANISH IV - VIEW OF SPAIN
Grade: 11, 12
40 weeks/5 meetings per week – 1 unit
Exam: local
Offering: year long
Reading Level: medium/high
Prerequisites: Spanish III and teacher recommendation
This Spanish elective is intended for those students who desire to continue their language study beyond the Spanish III requirement. The curriculum aims to build on the student’s previous years of Spanish language study to develop a higher proficiency in the areas of listening, speaking, reading, and writing in the Spanish language. In addition, students will develop a deeper knowledge of the history, art, literature, and culture of the country of Spain.

5240 SPANISH IV - THE SPANISH SPEAKING WORLD
Grade: 11, 12
40 weeks/5 meetings per week – 1 unit
Exam: local
Offering: year long
Reading Level: medium/high
Prerequisites: Spanish III and teacher recommendation.
This Spanish elective is intended for those students who desire to continue their language study beyond the Spanish III requirement. It is designed for students who want to improve their Spanish, and at the same time are interested in an overall view of the culture and civilization of the Hispanic World. It includes geography, history, politics, traditions, food, and folklore.
What do modern medicine, the American legal system and the English language have in common? The answer is an enormous cultural and linguistic debt to the Latin language and the Ancient Roman people. Improve your verbal PSAT, SAT or ACT scores while exploring Roman culture and gaining a command of Latin. Students will learn about mythology, family life, slavery, government and leisure activities in Roman society. Latin I focuses on proficiency in listening, speaking, reading and writing skills at an introductory level. This course is an excellent way to improve English reading and writing skills.

Latin II is designed to continue and improve upon proficiency in listening, speaking, reading and writing skills introduced in level one. Instruction in the principles of Latin grammar and syntax and their relation to the English language, are further developed. Vocabulary drill is advanced, with emphasis on expanding the understanding of English words which are derived from the new material. Further reading, audio-visual materials and authentic documents are used for discussion of our cultural and historical background.

Students of Latin III will study principles of grammar and vocabulary through reading of prose material from the classical period of Latin literature. Students will discuss the linguistic relationship between Latin and English with many examples of vocabulary and grammatical principles and particular emphasis will be placed on understanding and discussing the political, cultural and religious philosophies contained in reading material. Comparison of such philosophies with current thought is encouraged as much as possible. Upon completion of this course, all students will take the Regional exam in Latin.
5235 ADVANCED PLACEMENT LATIN
Grade: 11, 12 40 weeks/5 meetings per week– 1H unit
Exam: local/AP Offering: year long
Reading Level: high/AP
Prerequisites: Latin III or Advanced Latin Literature – Catullus/Ovid and teacher recommendation
AP Latin 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 Advanced Placement Latin Exam in May.

N.B. This course will rotate on a biennial basis with Advanced Latin Literature – Ovid/Catullus.

5236 HONORS LATIN IV
Grade: 11, 12 40 weeks/5 meetings per week – 1H unit
Exam: local Offering: year long
Reading Level: medium/high
Prerequisites: Latin III or Advanced Placement Latin and teacher recommendation
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. N.B. This course will rotate on a biennial basis with Advanced Placement Latin.
5237 ROOTS I
Grade: 9, 10, 11, 12
Exam: local
Reading Level: various
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 I 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 I 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 II
Grade: 9, 10, 11, 12
Exam: local
Reading Level: various
Prerequisite: ROOTS I or teacher recommendation
ROOTS II 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 II 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.
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 (B.O.C.E.S.), 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. Students will take these occupational courses at the Ormsby Vocational 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, 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 guidance counselor and CTE personnel.

NOTE: Generally, all Level II courses are offered in the morning and Level I courses are offered in the afternoon.
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<td>9390</td>
<td>Fashion Design and Merchandising II</td>
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<td>Digital Media II</td>
<td>9420</td>
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<td>Small Animal Science I</td>
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<td>Engineering and Robotics I</td>
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<td>Dental Laboratory Technology II</td>
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<td>Power Equipment Technology I</td>
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<td>Video Production and Recording Arts I</td>
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<td>Early Childhood Education I</td>
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<td>Cyber Security and Networking I</td>
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<td>Electrical Systems I</td>
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<td>Baking &amp; Pastry Arts I</td>
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<td>Electrical Systems II</td>
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<td>Emergency Medical Services (EMS) I</td>
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<td>Emergency Medical Services (EMS) 1 yr option <em>Srs Only</em></td>
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<td>9380</td>
<td>Fashion Design and Merchandising I</td>
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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
Exam: local

Prerequisite: none
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 Harkness 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
Exam: local

Prerequisite: none
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
Exam: local

Prerequisite: none
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  Exam: local
Prerequisite: none
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  Exam: local
Prerequisite: none
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  Exam: local
Prerequisite: none
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 CADD I  
40 weeks/5 meetings per week–3 units

9240 CADD II  
40 weeks/5 meetings per week–3 units
Grades: 11, 12
Exam: local

**Prerequisite:** none
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
Exams: local – 11; state – 12

**Prerequisite:** none
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 I  
40 weeks/5 meetings per week–3 units

9275 CRIMINAL JUSTICE II  
40 weeks/5 meetings per week–3 units
Grade: 11, 12
Exam: local

**Prerequisite:** none
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
Exam: Local
Prerequisite: none
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 TECH I  40 weeks/5 meetings per week - 3 units
9310 DENTAL LABORATORY TECH II  40 weeks/5 meetings per week - 3 units
Grade 11 and 12
Exam: local
Prerequisite: none
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
Exam: local
Prerequisite: none
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 ED I  40 weeks/5 meetings per week–3 units
9350 EARLY CHILDHOOD ED II  40 weeks/5 meetings per week–3 units
Grade: 11, 12
Exam: local
Prerequisite: none
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
Exam: local
Prerequisite: none
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 EMS I  40 weeks/5 meetings per week–3 units
9376 EMS II  40 weeks/5 meetings per week–3 units
Grade: 11, 12
Prerequisite: none
This two year program offers instruction in 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 the August after graduation to take the EMT certification exam.
9377 EMS-AM (one year option) 40 weeks/5 meetings per week–3 units
Grade: 12
Prerequisite: none
This one year program offers instruction in CPR certification, EMT training and certification, math for dosage and medical terminology. **Students must be 18 by August after graduation to take the EMT certification exam.**

9380 FASHION DESIGN AND MERCHANDISING I 40 weeks/5 meetings per week–3 units
9390 FASHION DESIGN AND MERCHANDISING II 40 weeks/5 meetings per week–3 units
Grade: 11, 12
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  Exam: Local and State
Prerequisite: none
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 PLUMBING & HVAC I  40 weeks/5 meetings per week - 3 units
9450 PLUMBING & HVAC II  40 weeks/5 meetings per week - 3 units
Grade: 11 and 12  2 Year Program
**Prerequisite:** none  Exam: local
Plumbing Systems is an intensive hands-on job training program. Students are instructed in the basic skills needed to gain entry level employment in the plumbing industry. Students will apply theory to practical situations in residential plumbing, soldering, pipefitting, basic roughing, faucet and toilet repair; customer service and personal and shop safety. **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  Exam: local
**Prerequisite:** none
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  Exam: local
**Prerequisite:** none
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
Exam: local
Prerequisite: none
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, 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
Exam: local
Prerequisite: none
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
Exam: local
Prerequisite: none
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.
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
Exam: local

Prerequisite: none
Web Technology and Applications is an exciting and dynamic program that will introduce and fine-tune students' skills and abilities to work with Web design and Programming technologies. 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 Potter Career and Technical Education Center.

9680 AVIATION TECHNOLOGY 40 weeks/5 meetings per week - 3 units
Grade 12
Exam: Local

Prerequisite: none
This course will expose students to the world of aviation. Students will develop the skills, attitude, and flight background required by the aviation industry. 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  
40 weeks/5 meetings per week - 3 units
Grade 12  
1 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 and 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
Grade: 11 and 12
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 Harkness Career and Technical Education Center.

9740 VIDEO PRODUCTION & RECORDING ARTS II
40 weeks/5 meetings per week - 3 units

9750 CYBER SECURITY & NETWORKING I
40 weeks/5 meetings per week - 3 units
Grade: 11 and 12
Prerequisite: none
Exam: local
Cyber security 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 and 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 Harkness Career and Technical Education Center.