Lakeland Central School District

2017-2018

High School
Program of Studies

Lakeland High School
Walter Panas High School
Lakeland Central School District
Mission Statement

The Lakeland Central School District accepts the challenge of preparing students for a rapidly changing world, and provides the opportunity for all students to learn and succeed.

We encourage, promote, and develop life-long learning and educational excellence in a safe, secure, student-centered environment.

Our practices and policies are shaped by mutual respect, open and honest communication, ethical behavior, and personal responsibility.

Lakeland Graduation Goals

- Self-directed, Lifelong Learner
- Complex and Creative Thinker and Problem Solver
  - Responsible Citizen
  - Effective Communicator
  - Collaborative Worker

EQUAL OPPORTUNITY

The Lakeland Central School District does not discriminate on the basis of gender, race, creed, national origin, age, or handicap in its employment, admissions practices, vocational education opportunities, or access to – and treatment in – programs and activities, in accordance with the Title IX and Section 504 of The Rehabilitation Act of 1973.
Dear Students, Parents, and Guardians:

We present to you the High School Program of Studies of the Lakeland School District. This publication contains the information you will need to create the best possible academic program for the 2017-2018 school year and beyond.

Our school district program provides students with a complete array of course offerings. As you choose your courses for the 2017-2018 school year, please carefully consider graduation requirements, promotion policies, instructional level guidelines and course descriptions.

Please take note that the high school program of studies provides information for Lakeland and Walter Panas high schools and for courses for self-contained special education students as recommended by the Committee on Special Education (700 series). Courses offered only at Lakeland will appear with the letter “L”, and those courses offered only at Walter Panas will be designated with a “P”. Please note that some courses may be offered in alternate years. Please consult your school counselor for more information.

Please be aware that this publication is not designed to answer all questions about a student’s schedule. It is our expectation that you will pursue all avenues available in planning your high school schedule and program. Our school counselors are ready to assist you in this process. They welcome any questions and concerns you may have about requirements, changes, and sequences affecting your high school plan of study and final course selections.

In closing, we ask that you read this information carefully and vigorously utilize the services offered by our school district. School counselors, teachers, subject area chairpersons, and administrators are willing to discuss the many educational opportunities available at our high schools.

We wish you a successful, challenging, and rewarding academic year and career at Lakeland High School and Walter Panas High School.

Sincerely,

Christopher Cummings, Principal
Lakeland High School

Keith Yi, Principal
Walter Panas High School
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## COURSE AVAILABILITY

Please take note that the District’s ability to offer any non-required or elective course will be totally dependent upon:

- Minimum student enrollment
- Financial and budgetary restrictions

**NOTE:** Some courses may be offered in alternate years. Please check with your School Counselor.
Academic Practices

INSTRUCTIONAL–LEVEL PLACEMENT
Placement in an instructional level is a decision that involves input from the student, parent and/or guardian, teacher, counselor, and school administrators. Course selection should provide a proper mix of support and stimulation to encourage student success in high school. The factors considered in determining a student’s instructional-level placement include past academic performance, completion of prerequisites, standardized test scores, demonstrated commitment, attendance patterns, study habits, classroom teachers’ recommendations, educational goals, and career goals.

We welcome input from parents and guardians. If you have any concerns regarding your student’s instructional-level placement, please call the Counseling Office at Lakeland High School, (914) 528-0600 or Walter Panas High School, (914) 739-2823.

GRADING PRACTICE
There are a number of important terms that are used in explaining the school district’s grading policy. They include:

**COURSE CREDIT:** Credit for a course will be granted when the final average achieved is 65 percent or greater, provided attendance requirements have been met.

**FINAL COURSE AVERAGE**
- a: A traditional full-year course – Add the 4 quarterly grades and the final exam grade, then divide the total by 5.
- b: A traditional one-semester course – Add the 2 quarterly grades; multiply by 2; add the final exam; and divide total by 5.

Any grading practice that differs from this formula will be communicated by the teacher of the course.

**CUMULATIVE GRADE POINT AVERAGE**
Total of final course averages (see Credits and Transcripts on page 7 for further details)

**REGENTS EXAMS**
Students enrolled in Regents courses are expected to take the Regents exam, except where noted.

**ADVANCED PLACEMENT**
Successful achievement on the Advanced Placement (AP) test can result in college credit and/or advanced college placement. The courses follow the AP curriculum established by the College Board. It is the expectation of the Lakeland School District that all who enroll in an AP course take the AP exam in May and pay for the exam no later than the end of the first semester of study. AP exam scores are not reflected on a student’s transcript. Students enrolled in Advanced Placement courses are strongly encouraged to take the corresponding SAT Subject Tests.

**NOTE:** Some AP courses may be offered in alternate years.

**ACADEMIC REPORTS**
Academic Progress Reports are available through the Home Access Center. They include two categories of reports:
- a. Report Cards – Issued four times per year at the end of each quarter (10 weeks)
- b. Interim Reports – Issued four times per year at the midpoint of the quarter (5 weeks)

**REPEATING A COURSE/FAILING A COURSE**
Students must successfully complete each level of a sequentially-based course before enrolling in the next course level. Students who fail a course required for graduation must either repeat the course or pass a New York State Education Department-approved summer school program. When a course is repeated to obtain a passing grade, the prior failing grade will be changed to an F, and only the new passing numerical grade will factor into a student’s GPA.

**HIGH SCHOOL COURSE DESIGNATIONS**
The High School Program of Studies includes the offerings for both Lakeland High School and Walter Panas High School.

If no letter appears before a course description, then the course is offered at both schools.

The letter “L” appearing before a course number indicates the course is offered only at Lakeland High School.

The letter “P” appearing before a course number indicates the course is offered only at Walter Panas High School.

**SCHEDULE CHANGES**
Schedule changes will only be made for the following reasons:
- ✔ Conflict in the original course selection
- ✔ Need for changes in an instructional level
- ✔ Change in academic status after attending summer school
- ✔ Course failure with the same teacher on a previous occasion
Graduation Requirements

New York State requires that every student complete a minimum of 22 units of credit to earn a diploma. In order to be best prepared for academic life beyond the high school, we urge our students, whenever possible, to complete four years of each of the five major academic subject areas, (English, Math, Science, Social Studies and a Language other than English.) It is also important to note that some undergraduate majors require specific courses for admission, particularly in fields related to the sciences. New York State also requires students to pass a Regents Comprehensive Examination in several areas. The minimum courses required for graduation, are listed as follows:

**COURSES**
- English, 4 credits
- Social Studies, 4 credits
- Math, 3 credits
- Science, 3 credits *
- Language other than English, 1 credit**
- Art/Music/Drama, 1 credit
- Physical Education, 2 credits
- Health, .5 credits
- Electives as required to total 22 credits

* At least one must be in a commencement-level (lab) life sciences course and at least one must be in a commencement-level (lab) physical sciences course.

** A total of three credits must be completed to earn an Advanced Regents diploma. It should be noted that New York State's general regents graduation requirement in a Language other than English (one year), is lower than most college or university minimum entrance requirements.

**REGENTS EXAM REQUIREMENTS**

In order to graduate and earn a Regents diploma, students must score 65 or above on 5 Regents exams (4 required plus 1 area of choice from the description below.) Please Note: The type of diploma a student earns is only noted on the actual, physical diploma they receive. It is not noted on the student's official transcript.

**PLEASE NOTE:** A student's diploma status is not a factor in college admissions or future employment opportunities.

- Social Studies
- English
- Math
- Science
- One additional exam in either social studies, math, science, or the Career and Technical Education Exam (upon completion of an approved BOCES program).

**Note:** Students earning an average of 90% or better on all regents exams for their respective diploma will earn an Honors designation.

More extensive information regarding student testing and academic planning can be found on the district's Guidance web page (www.lakeland-schools.org).

**Advanced Diploma**

Students must pass all the above Regents exams required for a Regents Diploma, plus:
- Two additional Math Regents exams
- One additional Science Regents Exam. (One must be a Life Science and one a Physical Science)
- World Languages Comprehensive School-based Exam (Level III)*

*A five-unit sequence in Career and Technical Education or the Arts may be substituted for the Language Other Than English requirement to earn the Advanced Regents diploma.

**Revised Special Education Graduation Guidelines (Safety Net)**

Currently, under New York State’s ‘safety net’ provisions, special education students may earn a local diploma by achieving a minimum passing score of 55 on five Regents Exams.

In addition to this safety net, special education students may graduate with a minimum passing score of 45-54 on the Global History, US History or Science Regents Exams with the following conditions:
- The student must have passed the course in which the 45-54 is being used.
- The student has earned at least a 65 on another Regents examination.
- One score of 65 can only be used to balance one score of 45-54.
- The 45-54 low pass score cannot be used for English or Math exams.

**Home Tutoring**

Home tutoring is defined as district supported tutoring for students who have been suspended out of school or who have missed five consecutive days or more as a result of a documented medical condition that precludes attendance. Tutoring may be provided by district-employed tutors, agency-assigned tutors or through online tutoring. Home tutoring for suspended students will be initiated by the school, and medical home instruction requests must be initiated by a parent. Individual tutors contact parents directly to schedule appointments. Tutoring hours cannot be consolidated into certain subjects, and cannot be postponed for future use. Tutoring hours that have not been completed prior to the student's return to class will continue to be delivered until fulfilled.
CREDITS & TRANSCRIPTS
All school-based courses, corresponding final averages, and credits earned are maintained on a permanent record for each student and comprise a student’s official transcript. Courses are recorded on the transcript following Board of Education policy regarding dropping/adding courses to reflect a student’s academic history.

Both a weighted and unweighted GPA are presented on a student’s transcripts for admission consideration. Students are not ranked in the Lakeland Central School District. Final course averages for honors courses are weighted with a +4 factor and Advanced Placement courses with a +5 factor. Official transcripts may be sent to colleges, future employers, or other agencies upon completion of an official transcript or records request form.

Please note that per FERPA guidelines, a student’s initiation of a college application will constitute consent to release the high school transcript, quarterly grades, supportive documentation and other relevant college admissions-related information not including official standardized testing reports (SAT/ACT). Similarly, if a student transfers to another school, the school may release all student records to the new school of enrollment, including discipline records, without parent consent.

While students are encouraged to pursue academic interests beyond the high school, courses taken online or through a college will only become part of the high school transcript if they have been formally approved in advance of the student enrolling. To be approved for inclusion on the student transcript, courses must be required for graduation, offered by an accredited institution and align with the school’s curriculum. Courses that are approved will be recorded on the transcript with a grade of ‘P’. Note that a semester of an approved college course (taken online or at the college) will be awarded one full high school credit.

When a failed course is successfully recovered in the LCSD Course Recovery Program, or other formal summer school program, the prior year’s failed course grade will be changed to an ‘F’. This will create an accurate indication of the student’s academic history, but will not factor into the student’s cumulative GPA. To be eligible to participate in a course recovery or summer school program, students must have not missed more that 45 days of instruction, or the equivalent home instruction hours, in the failed course.

ROLE OF THE SCHOOL COUNSELOR
The role of the school counselor focuses on the development of the whole student. Our school counselors within the Lakeland Central School District routinely address the academic, career, social, and emotional needs of students through a variety of strategies.

Through individual, small group and team approaches, counselors work cooperatively with other pupil personnel staff playing a significant role through the many transitions and challenges which face adolescents today. Our counselors offer services that include, but are not limited to, academic advising, personal counseling, student monitoring, crisis interventions, parent conferences and college and career exploration. A calendar of counselor meetings that will take place throughout the year is communicated in September along with the first of five bi-monthly counseling department newsletters. The calendar, newsletters, and other pertinent information can be found on the district’s web page www.lakelandschools.org.

SCHOOL-TO-CAREER ACTIVITIES
The Lakeland Central School District engages students in School-to-Career activities through a variety of career exploration programs, activities, and course work at the elementary, middle, and high school level. School-to-career concepts and project-based learning activities are an integral part of the curriculum at all levels. Within the guidance program, targeted career explorations and personality inventories are conducted in the 8th grade and again in the 10th grade.

In addition to school-based internship experiences offered to seniors, school-supported vocational training programs offered through BOCES connect students’ academic studies to skills necessary for success in the work force.

COLLEGE AND CAREER CENTER
Each high school hosts a college and career center from within the School Counseling office. This center coordinates all college visits, scholarship opportunities, transcript verifications, and monthly newsletters. Students in Grades 9-12 may also access the center for direction with web-based career and personality inventories.

ENROLLMENT CRITERIA FOR HONORS AND ADVANCED PLACEMENT COURSES
A student’s selection to honors courses is based on several factors including grade point average, standardized test scores, teacher and/or counselor recommendation, and a demonstrated capacity for serious study. Students who wish to pursue a higher level of study that does not follow the school’s course recommendation may appeal this through a formal academic advisement process.

ACADEMIC ADVISING
Students and parents seeking a change in level from the school’s recommended placement will participate in an academic advising process that will ensure any academic recommendations and/or concerns have been clearly communicated between teacher, student, parent, and counselor. Students and parents may choose a route other than what has been recommended by completing an academic advising form that is provided to the student. Note that this academic advisement process does not override course prerequisites, and the deadline for current students to submit academic advisement forms is the last day of class in June prior to Regents exam testing.

ACADEMIC RECOGNITION (High Honor, Honor, and Credit Rolls)
Grades are computed at the end of each marking period. For a student to achieve academic recognition, the following marking period averages must be attained: High Honor Roll: 95; Honor Roll: 90; Credit Roll: 85. These averages are computed to the hundredth place on an unweighted basis. No rounding is permitted. Students must be enrolled in a minimum of five courses during the quarter in which the honor roll is calculated in order to be considered for any such recognition.
NATIONAL HONOR SOCIETY
The National Honor Society (NHS) is a prestigious organization to which Lakeland and Panas High Schools students will receive an invitation packet for the application during the summer before their senior year. The organization stresses the qualities of scholarship, character, service and leadership, which each applicant must demonstrate. Grade point averages are not rounded in determining honor society eligibility.

For induction into the NHS students must:

- have at least an 88 average (unweighted)
- have a positive discipline and behavior record
- submit proof of completion for 80 hours of service
- submit invitational packet and letters on time
- maintain good grades and positive behavior once inducted
- complete an additional 20 hours of service during senior year

Students may appeal a denial for induction through the procedures outlined in the the NHS handbook.

The induction for both high schools will take place in October for seniors who have been admitted.

LAKELAND H.S. INTERNSHIP PROGRAM
WALTER PANAS H.S. INDIVIDUALIZED SENIOR EXPERIENCE (WISE)
This twelfth-grade option provides seniors at both of our high schools with English credit for the second semester of their senior year. Students have the option of selecting an internship in a career-interest or special-interest project. The program requires each student to have a school-based mentor and a work-based sponsor. Students are required to attend weekly seminars, record daily journal entries, and perform work-based site activities during the second semester of their senior year in lieu of attending English classes. Final student assessment is based on a research paper, journal writings, and a presentation of their project.

COURSE AVAILABILITY
Please take note that the District’s ability to offer any non-required or elective course will be totally dependent upon:

- Minimum student enrollment
- Financial and budgetary restrictions

NOTE: Some courses may be offered in alternate years.

COLLEGE CREDIT COURSES
In addition to potentially earning college credit through demonstrated proficiency on an Advanced Placement exam, students have opportunities to earn college credit through the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
<th>2017-2018 Cost*</th>
</tr>
</thead>
<tbody>
<tr>
<td>042 English 120 College Writing Honors</td>
<td>3-Marist College</td>
<td>$300</td>
</tr>
<tr>
<td>0341 College Algebra</td>
<td>3-SUNY</td>
<td>$180</td>
</tr>
<tr>
<td>0425 Spanish 4H</td>
<td>3-SUNY</td>
<td>$180</td>
</tr>
<tr>
<td>0432 Spanish 5H</td>
<td>3-SUNY</td>
<td>$180</td>
</tr>
<tr>
<td>0444 Italian 4H</td>
<td>3-SUNY</td>
<td>$180</td>
</tr>
<tr>
<td>0455 Italian 5H</td>
<td>3-SUNY</td>
<td>$180</td>
</tr>
<tr>
<td>524 Accounting</td>
<td>4-SUNY</td>
<td>$240</td>
</tr>
<tr>
<td>532 Business Law</td>
<td>3-SUNY/Mercy</td>
<td>$180/$150</td>
</tr>
<tr>
<td>LHS 554 Studio in Ceramics 2</td>
<td>2-SUNY</td>
<td>$120</td>
</tr>
<tr>
<td>507 Introduction to C++</td>
<td>4-SUNY</td>
<td>$240</td>
</tr>
<tr>
<td>534 Business Ownership and Marketing</td>
<td>6-SUNY</td>
<td>$120</td>
</tr>
<tr>
<td>L-0138- SUPA American History 101/102</td>
<td>3/6-Syracuse</td>
<td>$336/$672</td>
</tr>
<tr>
<td>P-0153- SUPA Sports Management</td>
<td>3-Syracuse</td>
<td>$336</td>
</tr>
</tbody>
</table>

*Cost estimate is based on 2016-17 costs and may be different in 2017-2018.
The Lakeland School District offers a number of Advanced Placement courses. The Advanced Placement program, sponsored by the College Board (Educational Testing Service), challenges very able and highly motivated students to do college-level work. Successful achievement on the AP test can result in college credit and/or advanced college placement. The courses follow the Advanced Placement curriculum established by the College Board. Complete course descriptions of the AP courses can be found in the following pages.

Students who enroll in an AP course are required to take the exam in May. In the event that a student does not take the corresponding AP exam, the AP course designation will be removed from the student’s transcript. Students will pay for the exam ($97) no later than the end of the first semester of study. Fee reductions and federal and state AP Exam fee assistance may be available.

NOTE: Some courses may be offered in alternate years and/or through in-district distance learning labs. Please consult your school counselor for more information.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit</th>
<th>Grade(s)</th>
<th>Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>034</td>
<td>AP Language &amp; Composition</td>
<td>1</td>
<td>Grade 11</td>
<td>40 weeks</td>
</tr>
<tr>
<td>044</td>
<td>AP Literature &amp; Composition</td>
<td>1</td>
<td>Grade 12</td>
<td>40 weeks</td>
</tr>
<tr>
<td>134</td>
<td>AP United States History</td>
<td>1</td>
<td>Grades 11-12</td>
<td>40 weeks</td>
</tr>
<tr>
<td>147</td>
<td>AP European History</td>
<td>1</td>
<td>Grade 12</td>
<td>40 weeks</td>
</tr>
<tr>
<td>148</td>
<td>AP Macroeconomics/Politics</td>
<td>1</td>
<td>Grade 12</td>
<td>40 weeks</td>
</tr>
<tr>
<td>149</td>
<td>AP World History</td>
<td>1</td>
<td>Grades 10-12</td>
<td>40 weeks</td>
</tr>
<tr>
<td>244</td>
<td>AP Physics</td>
<td>1</td>
<td>Grade 12</td>
<td>40 weeks</td>
</tr>
<tr>
<td>261</td>
<td>AP Chemistry</td>
<td>1</td>
<td>Grades 11-12</td>
<td>40 weeks</td>
</tr>
<tr>
<td>263</td>
<td>AP Biology</td>
<td>1</td>
<td>Grades 11-12</td>
<td>40 weeks</td>
</tr>
<tr>
<td>352</td>
<td>AP Calculus AB</td>
<td>1</td>
<td>Grade 12</td>
<td>40 weeks</td>
</tr>
<tr>
<td>568</td>
<td>AP Studio Art</td>
<td>1</td>
<td>Grades 11 and 12</td>
<td>40 weeks</td>
</tr>
<tr>
<td>425</td>
<td>AP Spanish Language</td>
<td>1</td>
<td>Grade 12</td>
<td>40 weeks</td>
</tr>
<tr>
<td>151</td>
<td>AP Psychology</td>
<td>1</td>
<td>Grades 11-12</td>
<td>40 weeks</td>
</tr>
<tr>
<td>265</td>
<td>AP Environmental Science</td>
<td>1</td>
<td>Grades 11-12</td>
<td>40 weeks</td>
</tr>
<tr>
<td>354</td>
<td>AP Statistics</td>
<td>1</td>
<td>Grades 11-12</td>
<td>40 weeks</td>
</tr>
<tr>
<td>589</td>
<td>AP Music Theory</td>
<td>1</td>
<td>Grades 10-12</td>
<td>40 weeks</td>
</tr>
<tr>
<td>509</td>
<td>AP Computer Science</td>
<td>1</td>
<td>Grades 11-12</td>
<td>40 weeks</td>
</tr>
</tbody>
</table>
Creating art is fun and relaxing! Art classes are a great way to explore, learn to problem solve, meet new friends, and discover what you're good at!

The study of art involves your feelings, intuition and curiosity, as well as your observations of the outside world.

Studio in Art is the course that fulfills your New York State Requirement for Graduation.

550 Studio in Art
1-credit Grades 9-12 40 weeks
Studio in Art introduces you to a variety of Art experiences and helps you discover your talents. Things you may do include drawing, design, painting, ceramics, printmaking, and sculpture. This is a full-year foundation course required for some art electives and meets the art requirement for graduation.

551 Drawing
1-credit Grades 10-12 40 weeks
If you like to doodle or draw, and want to learn how to draw better, this exciting and challenging course will help you discover and refine your skills! You will learn to draw through observation and develop your own ideas using a wide variety of media such as pencil, pen and ink, charcoal, and pastels. Drawing skills, techniques, and creativity will be gained.

Prerequisite recommended: Drawing

558 Painting
1-credit Grades 11-12 40 weeks
Students explore the language of painting and painting techniques through color, composition, history and aesthetics. Students complete original works of art on canvas, which adds to their portfolio development.

Prerequisite recommended: Drawing

552 Watercolor
½-credit Grades 10-12 20 weeks
Students learn watercolor techniques and create original works of art using this exciting medium.

560 Digital Art & Design 1
½-credit Grades 10-12 20 weeks
Create artwork and special effects using Mac computers, drawing tablets, digital cameras & Photoshop! Using simple drawings and digital photos, you can create amazing images through Photoshop special effects and programs. Basic art concepts, illustration & storytelling, and graphic design are all introduced in this course.

561 Digital Art & Design 2
½-credit Grades 10-12 20 weeks
Level 2 Digital Art builds upon your visual special effects knowledge to challenge your creativity, problem solving, illustration and visual storytelling...all through Photoshop programs and our Mac computers.

555 Printmaking
½-credit Grades 10-12 20 weeks
Explore both traditional and experimental printmaking techniques that use a variety of methods for multiplication. Projects might include linocuts, monoprints, and relief prints.

553 Ceramics 1
½-credit Grades 10-12 20 weeks
Hand-building techniques are explored in this beginner's fun and innovative studio class. Students will create works of art using the pinch, coil, and slab methods. Students will be encouraged to use their imaginations to design original works of art in a creative and supportive environment.

Prerequisite: Studio in Ceramics 1.

554 Ceramics 2
½-credit Grades 10-12 20 weeks
Students will learn how to throw on the potter's wheel, experiment with different types of glazes and explore a variety of effects. Projects will include bowls, cups, and vases in addition to students’ own original designs. This is a vigorous and exciting course that entails patience and imagination.

NOTE: At Lakeland High School, students may opt to earn two college credits from Westchester Community College for successful completion of this course at a cost of approximately $55 per credit.

568 AP Studio Art/Portfolio Development
1-credit Grades 11-12 40 weeks
This combination course is intended for students who are interested in producing college-level work in art and/or continuing their studies of art in college. Students are challenged to explore a variety of media.

-Students enrolled in AP Studio Art will be expected to submit a portfolio of work along with a brief written component to the College Board for evaluation in May. Those participating in the program will be expected to invest a significant amount of time and commitment to their work both in school and at home. Work is based on quality (the development of a sense of excellence), concentration (an in-depth personal commitment to particular artistic concerns), and breadth (a variety of experiences using formal, technical, and expressive means.)

-Students enrolled in Portfolio Development will be expected to complete a portfolio of work at the highest high school level but do not submit a portfolio for evaluation to the College Board in May and will not receive A.P. credit for the course.

Prerequisite: Successful completion of Studio in Art and Drawing or Teacher approval.

Please note: If no letter appears before a course description, then the course is offered at both schools.
The letter “L” appearing before a course number indicates the course is offered only at Lakeland High School.
The letter “P” appearing before a course number indicates the course is offered only at Walter Panas High School.
A R T (continued)

L-566  Photography 1  
1-credit     Grades 10-12     40 weeks  
A good photograph can be captured with a camera. A great photograph is made in the darkroom. Develop your vision in this basic black and white photography course. Learn to use the camera, process film, produce prints, and finish your work for presentation and your portfolio. A 35-mm (manual/SLR) camera is required. Additional materials will also be required.

L-567  Photography 2  
½-credit     Grades 11-12     20 weeks  
Pursue your personal ideas and creative goals while fine-tuning your darkroom skills. Add a repertoire of various photographic and fine art techniques to enhance your black and white photographs. You will be inspired to go beyond the traditional and build an exciting portfolio.  
Prerequisite: Photography 1

L-557  Wearable Art  
½-credit     Grades 10-12     20 weeks  
This is a hands-on art class geared towards art that is wearable and/or functional. Create t-shirts with iron-on transfers, create brands and logos that will be applied to clothing. Paint jean jackets, skateboard decks, snowboards or furniture. You will also learn to make colorful tie-dye clothing and explore fashion trends throughout the decades. This class will help you make art that you can wear with pride.

525  Cinematography 1  
1-credit     Grades 10-12     40 weeks  
This course is designed to introduce students to the art of film production. Students will get a thorough overview of terminology and camera operation while also studying history, composition, lighting, camera movement and special effects in creating their own movies. Students will learn and use iMovie to edit.

526  Cinematography 2  
1-credit     Grades 10-12     40 weeks  
This course is designed to reinforce what students learned in Cinematography I. Students can explore projects of personal interest and culture their own individual film-making styles.  
Prerequisite: Cinematography I.

P-566  Digital Photography 1  
1-credit     Grades 10-12     40 weeks  
Been taking photos on your phone and want to take them to the next level? In this course, you will use a variety of photographic skills including, composition, Adobe Photoshop editing/manipulation, lighting techniques and Epson professional quality printing. Having your own Digital SLR camera is preferred but not mandatory. At the completion of the course, you will have developed a portfolio of your work.

P-567  Digital Photography 2  
½-credit     Grades 10-12     20 weeks  
Take your photographic foundation skills to the next level while building upon your photography portfolio. Individual artistic style will be enhanced throughout this course. Advanced lighting techniques and processing skills will also be explored.

P-556  Jr./Sr. Art Experience  
1 credit     Grades 11-12     40 weeks  
This course provides students with artistic experiences in areas such as drawing, sculpture, painting, and printmaking. Students can expand on knowledge previously learned in Studio in Art with regards to the Elements of Art and Principles of Design while at the same time, explore new techniques and materials. This course can fulfill the New York State requirement for Art upon approval for students in grades 11-12.

555  Sculpture 1  
½-credit     Grades 10-12     20 weeks  
Explore the third dimension! Learn how to build three-dimensional projects using clay, plaster, wire, wood, found objects or paper-mache. Introduction to processes such as modeling, casting and carving are also explored.

559  Sculpture 2  
½-credit     Grades 10-12     20 weeks  
This class continues the exploration of three-dimensional design on an advanced level. Students will work on the mediums associated with Sculpture 1, plus other potential additions such as precious metal, soapstone, Styrofoam, and materials to be found in nature.  
Recommended: Sculpture 1

"Taking an art class was the best decision I made in high school! I learned that I was good at being creative, I made many new friends, it reduced my stress everyday and was a lot of fun.”
CAREER AND TECHNICAL EDUCATION

This department offers a curriculum designed to assist all students in developing business concepts, computer skills, and family/consumer awareness that will provide a smooth transition to post-secondary education and/or employment. The program provides skills that students can utilize in their personal lives to be productive/responsible citizens and knowledgeable consumers. It provides students with a unique blend of electives and sequence opportunities.

NOTE: Some courses may be offered in alternate years. Please consult your Guidance Counselor for more information.

L-507 Introduction to C++ Computer Programming
1-Credit Grades 9 - 12 40 weeks
This course is designed for the student with little or no computer programming background. The programming language used is Turbo C++. It is strongly recommended that this course be completed satisfactorily before taking AP Programming.
College credits are offered through Westchester Community College and are transferable to all SUNY schools as well as many other colleges.

509 AP Computer Science A
1 credit Grades 11 - 12 40 weeks
The AP Computer Science course emphasizes procedural and data abstraction, object-based programming methodology, algorithms, and data structures. The AP Computer Science Exam requires knowledge of the programming language Java. The exam will continue to cover the fundamentals of computer science taught in first-year college courses.

512 Visual Basic Coding (WCC Object Oriented Programming)
½-Credit Grades 10 - 12 20 weeks
Visual Basic is a half-year course which will build on skills taught in Computer Information Systems (which is a pre-requisite for this course). Students will apply fundamental commands as well as Object Oriented, Graphical, and Event-Driven programs. (Westchester Community College Course CS 120)
College credits (3 SUNY credits) are offered through WCC and are transferable to all SUNY schools as well as many other colleges.

517 Computer Information Systems
1/2 credit Grades 10-12 20 weeks
Students who enroll in this half year introductory course will learn computer languages and computer programming. This class will fulfill pre-requisite for Visual Basic and will provide a strong foundation for other computer science classes. (Westchester Community College Course CS110). College Credits (3 SUNY credits) are offered through WCC and are transferable to all SUNY schools as well as many other colleges.

514 Web Design with HTML 5
½ -Credit Grades 10 -12 20 weeks
This half year course is designed to teach students the technology necessary to develop professional, quality, web pages. Students will learn Photoshop CS for enhancing and creating with images, Adobe Animation to create movies within websites, and the coding behind the development of a website.

518 Gaming and App. Development
½ -Credit Grades 10 - 12 20 weeks
Students in this half year course will have opportunities to code using a variety of applications in the Java programming language. The focus of this class will be on developing high quality, working software that solves real life problems. This course is designed for students who enjoy "Scratch" and other web based programming tools.

523 Math and Financial Applications
1-Credit Grades 11 - 12 40 weeks
This course is for students who have successfully completed two full years of high school math. It fulfills one of the three units of mathematics required for a Regents' diploma and was designed to meet commencement level math standards. It will prepare students for both college-level business programs and help them understand the complex financial world they will encounter after graduation.

524 Accounting
1-Credit Grades 11 - 12 40 weeks
This course provides students with an understanding of financial accounting principles at the introductory college level. Students will gain a thorough knowledge in the applications of fundamental accounting concepts and procedures. It is an essential course for those students planning to major in Accounting, Finance, and/or Business Administration in college. The course utilizes a college textbook and course syllabus. Students will prepare all assignments both manually and on the computer using accounting software.
College credits (4 SUNY credits) are offered through Westchester Community College and are transferable to all SUNY schools as well as many other colleges.

532 Business Law
1-Credit Grades 11 - 12 40 weeks
The emphasis of this course is on your legal rights and obligations. Business Law includes the study of criminal, tort, and family law as well as individual rights. Learn how to enter into a valid contract, protect yourself with warranties, how to write a will, and know your rights in the workplace. In addition, discover how to purchase and insure your car as well as use credit and write checks. Guest speakers and field trips will supplement the curriculum.
College credits (3 SUNY Credits) are offered through Westchester Community College and Mercy College. Credits are transferable to all SUNY schools as well as many other colleges.

534 Business Ownership and Marketing
1-Credit Grades 11 - 12 40 weeks
Entrepreneurship and Marketing will be the focus of this course. Students will analyze various companies' marketing and business strategies to see what makes some successful and others fail. Students successfully completing this course are provided with the skills necessary to start and manage a small business. They will also have a solid foundation in concepts that may be utilized in college-level studies in Business Administration.
College credits (6 SUNY Credits) are offered through Westchester Community College and are transferable to all SUNY schools as well as many other colleges.

535 Child Psychology
½ -Credit Grades 10 - 12 20 weeks
Students taking this course are provided with a better understanding of children from birth through school-age and themselves as individuals. The course includes prenatal care as well as the responsibilities of parenthood; physical, cognitive, social/emotional development, and interaction with infants, children, and adolescents. This course is beneficial for students currently working with children or considering careers in early childhood.
### 536 Early Childhood Education I

**1-Credit  Grades 11 - 12  40 weeks**

This course will begin to teach the basics of working in and early childhood education class setting. Through their readings, they will learn about the social, emotional, cognitive and physical development of preschool children ages 3-5 and assist the high school senior student teachers in the preparation of activities for the pre-k program. They will also be required to do projects on classroom design, writing storybooks and doing observations. Juniors may take this course for one period, and seniors may take it for two periods.

### 537 Early Childhood Education II

**2-Credits  Grade 12  40 weeks**

In this course, the senior students will have the opportunity to plan activities for the preschoolers in the areas of English Language Arts, Math, Science, Arts & Crafts, and developing gross motor skills as well as using the SmartBoard for interactive, hands-on learning activities. Students will have the opportunity to develop a testing assessment for pre-kindergarten readiness and act as mentors to the junior assistants. A portfolio must be submitted by the end of the course which will include all work completed for the year. Students will be able to take this course for two periods (2 credits).

### L-533 Internship/Work Study

**1/2-credit  Grade 12  20 weeks**

This course offers a work-based learning opportunity to assist students with the link between school and careers. During the first ten weeks, the course will prepare students for an internship experience through a variety of activities including workplace issues, resume writing, the employment process, etc. Students will then have the opportunity to intern and obtain awareness of specific careers by working with mentors in their related field of interest.

**NOTE:** Students enrolling in this course must also sign up for the following courses: 045-English 12 Internship and 162-Internship/Politics.

### 277 Robotics

**1-credit  Grades 10-12  40 weeks**

This one-year course studies the design, construction, and programming of various self-directed robots. Students will be able to program robots to move, grab objects, deal with obstacles, run through a maze, react to spoken commands and compete with other robots in competition. Robotics Engineering is a hands-on, fully interactive course open to 10th, 11th, and 12th-grade students.

### L-548 FBLA (Future Business Leaders of America)

**1/2-credit  Grades 9-12  20 weeks**

FBLA (Future Business Leaders of America) is the largest career student organization in the world. Students will prepare for college and careers through a variety of leadership, community service, and academic activities. Students will develop leadership, communication, presentation, and teamwork skills while building a portfolio of accomplishments that will serve them well in college and the work world. Students will earn recognition on the local, state, and national levels through the Business Achievement Awards, open up their access to scholarships, and opportunities to travel.

### L-160 Leadership/Politics

**1/2-credit  Grade 12  20 weeks**

Designed for students with leadership potential and abilities, this course will focus on the importance of positive leadership. Students will learn how to become effective leaders and speakers by studying the techniques and procedures developed and used by successful leaders of the past and present. A student leader will learn how to identify problems, develop solutions, initiate action, give orders, make decisions, and settle disputes. Students will also be given the opportunity to train other students in becoming student leaders. Areas that are part of the Leadership curriculum include personal development, communication, problem-solving, decision-making, organization, project planning, and group process. Students will be required to make these applications through participation in school and community projects. This course will satisfy the Politics course requirements.

**NOTE:** This course satisfies the ½ credit of required senior social studies - Participation in Government in lieu of Politics. Students must be in good standing to participate in this course. Enrollment is subject to approval of the building administration.
The English Program consists of four full-year required courses plus optional electives for enrichment. The curriculum is designed to promote the New York State Common Core Learning Standards for English Language Arts. The program, based on grade-specific standards, develops reading, writing, speaking, listening and language skills to enable students to meet college and career readiness expectations.

Students study classical and contemporary literature paired with rich informational text. Students gather, comprehend, evaluate, synthesize, and report on information and ideas, conduct original research in order to answer questions or solve problems, and analyze and create an extensive range of print and nonprint texts in various media forms.

The Special Education core courses (700 series) are listed in their content areas.

NOTE: Some courses may be offered in alternate years. Please consult your Guidance Counselor for more information.

003/710 English 9 023/720 English 10
033/726 English 11 043/732 English 12
1-credit 40 weeks

Ninth/Tenth Grade English program offers students the opportunity to continue developing language arts skills introduced in previous years. The focus is on building vocabulary competency and on developing critical reading and thinking skills through a variety of literary genres and global literature selections.

Collaborative and individual research and creative projects enable students to demonstrate language arts proficiency.

Eleventh Grade English focuses primarily on American literature and on critical thinking and writing. Students are encouraged to foster their vocabulary growth in preparation for the PSAT and SAT exams. Emphasis is on critical thinking, critical reading, and writing in preparation for the required Regents Exam in English Language Arts (Common Core) in June.

Twelfth Grade English offers increased opportunities for students to use their language skills with an emphasis on more direct preparation for success beyond high school. Using literature and selected books of non-fiction as a springboard for critical thinking, students focus on connecting personal values to world issues. A senior thesis paper is required. Internship programs are available as an alternative at both high schools.

004 English 9-Honors
1-credit 40 weeks

The Ninth Grade Honors Program in English is a language arts program designed for English students who demonstrate a high level of creative ability, task commitment, and motivation. This course has been structured to provide emphasis not only on skills development in the areas of reading, writing, speaking, listening, and critical thinking, but also an opportunity to explore the concerns, problems, beliefs, and visions shared by people throughout the world. Some literary parallels will be made throughout the year to students’ study of world cultures. Students are accepted into this program based upon their 8th-grade achievement. Criteria include standardized and New York State test scores, report card grades, and teacher recommendations. Students who complete the year successfully are expected to continue into English 10 Honors, and then English 11 AP Language and Composition, and English 12 AP Literature and Composition.

024 English 10-Honors
1-credit 40 weeks

The honors English program is for exceptional students of English who have demonstrated a more advanced language ability and skill. The honors curriculum emphasizes development of a rich and varied background in literature. Focus is placed on high-level critical thinking and reasoning skills. In addition, there is an emphasis on in-depth analysis of literature through the study of major writers. Students can expect to be challenged through assignments that require a growing ability to develop and complete independent research projects. Students will also experience an in-depth study of the building blocks of language and vocabulary, which will prepare them for success on the English 11 AP and the SAT.

034 AP Language & Composition
1-credit Grade 11 40 weeks

“The Advanced Placement course of study in language and composition is for qualified, highly motivated juniors who seek a course which emphasizes the expository, analytical, and argumentative writing that forms the basis of academic and professional communication.” (The College Board) The goal of this college-level course is to develop facility in writing and to foster high levels of critical thinking. It is expected that all students enrolled will take the AP exam in May. Emphasis is on critical thinking, critical reading, and writing in preparation for the required Regents Exam in English Language Arts (Common Core) in June.

P-047 English (WISE)
1-credit Grade 12 40 weeks

Students have the option to participate in a second semester senior internship that offers English and social studies credit when they choose WISE. Admission is by application at the end of 11th grade.

Internships run from February through June and include 8-10 hours per week at the site, as well as a research project and a presentation. Students in the WISE program will be representing the school in public, so it is important that the participants understand that they must demonstrate good character and good decision-making skills. Serious discipline or academic failures may prevent a student from becoming a part of or remaining in this program. This course satisfies the 1/2 credit of required senior social studies -- Participation in Government in lieu of Politics.

NOTE: Students enrolled in this class must also enroll in course 159 Social Studies (WISE.)

L-045 Internship/English 12
1-credit Grade 12 40 weeks

This course offers a work-based learning opportunity to assist students with the link between school and careers. During the first ten weeks, the course will prepare students for an internship experience through a variety of activities including work place issues, resume writing, the employment process, etc. Students will then have the opportunity to obtain awareness of specific careers by working as interns with mentors in their related field of interest. This course satisfies the 1/2 credit of required senior social studies -- Participation in Government in lieu of Politics.

NOTE: Students enrolling in this course must also sign up for the following courses: 162-Internship/Politics and 533-Internship/Work Study.

SUMMER READING NOTE

All core English courses include a summer reading requirement. Texts are assigned in June based on course level. Related assessments will be conducted at the start of the new school year. Summer reading assignments can be found on the school’s website.
ENGLISH (continued)

042 English 120 College Writing - Honors  
1/2-credit Grade 12 40 weeks  
This course is an intensive two-semester sequence instructing students in the process and conventions of academic writing at the college level. During the first semester, students are guided through the writing processes and conventions of college-level academic writing. During the second semester, greater emphasis is placed on synthesizing ideas from diverse readings into more complex essays. Students will compose and revise 8 - 12 essays of varying lengths, including a substantial research project and presentation. By the end of the course, students will have acquired an array of writing and revision techniques and will have gained a better understanding of their own critical perspective.

Marist College requires that students must have a minimum cumulative grade point average of 85 to enroll in this course. Enrollment is limited to 18 students per section. Seats in this class will be assigned through random computer selection.

Students may earn three college credits for the spring semester for English 120. The fee for this class is $300. This course satisfies the 12th grade English graduation requirement.

P-056 Introduction to Theatre  
1/2-credit Grades 9-12 40 weeks  
This course involves students in a practical approach to the theatre. It includes a study of theatre history, live theatre, creative dramatics, and theatre management. Class activities include oral interpretations and class discussions of classic and contemporary drama, scene enactment from contemporary works, playwriting, written critiques of drama, and class trips to neighborhood or NYC productions.

P-058 Rock ‘n’ Literature  
1/2-credit Grades 10-12 20 weeks  
This course will explore the exciting connections between rock/metal music (from Johnny Cash to Iron Maiden; Bob Marley to Mastodon) and short stories, essays, poetry, and novels. Did you know that Iron Maiden wrote a 14-minute epic song based on an 18th-century English poem? We will interpret and analyze songs through conscientious and active listening and a close reading of lyrics. We will also identify literary and poetic elements and devices used in rock/metal songs; read and discuss literature and poetry; and explore specific connections to the work of rock/metal.

P-059 Sports Literature  
1/2-credit Grades 10-12 20 weeks  
Do you like sports? Do you like to read, write, and talk about sports? If the answer is yes, then this class is for you. This course will focus on the role sports play in our lives as expressed through written and visual media. It will emphasize critical reading and written analysis of sports-related novels, short stories, poems, articles, and films. We’ll debate controversial issues, read about legendary games and players, and write about all things related to the exciting world of sports.

P-060 Mystery, Suspense, and Thriller  
1/2-credit Grades 10-12 20 weeks  
Tantalize yourself to explore the WHODUNIT and to learn about the evil and mysterious behaviors of human beings. The victim, the murderer, the motive, the clues, the multiple suspects, and the alibis - all of these conspire to create thrilling page-turners and films that fascinate and appall us. In this course we will dwell in the darkness of human nature and try to figure out “WHODUNIT?” and WHY? Detective and Suspense fiction, films, plays, and short stories will form the basis of the course.

061 Learning Center  
No Credit  
This course is mandated by New York State Educational Law for any student whose test score on the New York State assessments in English falls below the state reference points. This is a non-credit bearing course. Other students who need academic assistance may be scheduled into the program to receive academic support in any subject area, to build study skills, and to learn test-taking skills.

L-054/727 Psychological Fiction  
½-credit Grades 10-12 20 weeks  
This course is designed for students who would like to read, see films, and discuss works that deal with characters in literature who experience psychological problems. The characters’ problems may be the result of their personal inadequacies and stem from a conflict with a society that imposes its value system and restrictions on them.
**English as a New Language**

**Entering**
A student at this English language proficiency level relies heavily on teacher supports and instructional scaffolds to advance his or her academic language skills. As measured by the NYSITELL or the NYSESLAT, a student at this level has yet to meet the linguistic demands necessary to demonstrate English language proficiency in a variety of academic contexts within his or her grade level.

**Emerging**
A student at this English language proficiency level relies on teacher supports and instructional scaffolds to advance his or her academic language skills. As measured by the NYSITELL or the NYSESLAT, a student at this level has yet to meet the linguistic demands necessary to demonstrate English language proficiency in a variety of academic contexts within his or her grade level.

**Transitioning**
A student at this English language proficiency level shows increasing independence in advancing his or her academic language skills. As measured by the NYSITELL or the NYSESLAT, a student at this level has yet to meet the linguistic demands necessary to demonstrate English language proficiency in a variety of academic contexts within his or her grade level.

**Expanding**
A student at this English language proficiency level shows great independence in advancing his or her academic language skills. As measured by the NYSITELL or the NYSESLAT, a student at this level is approaching the linguistic demands necessary to demonstrate English language proficiency in a variety of academic contexts within this grade level.

**Commanding**
As measured by the NYSESLAT, a student at this level has met the linguistic demands necessary to demonstrate English language proficiency in a variety of academic contexts within his or her grade level. This student is designated as a Former ELL and is entitled to receive two years of former ELL services.

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**HEALTH**

**652 Health**
½-credit  Grades 10-12  20 weeks
The Health curriculum consists of the fundamental concepts of mental, sociological, environmental and community health in addition to first aid and safety. Effects of drugs, alcohol, and tobacco are investigated as important aspects of family living and interpersonal relationships. This course includes a presentation of the current knowledge about AIDS. The course is flexible in sequence and content and is designed to meet the varied needs of students in relationship to their environment and community. The goals are to give accurate health knowledge, help develop positive attitudes, and maintain or initiate constructive behavior. A district exam is given at the end of the course. It is recommended that all students take health in grades 10-11. This course is required for graduation.

**NOTE:** Students may choose to take this course at a later date, but it may cause scheduling conflicts with higher level core courses, BOCES course participation or other graduation requirements.

**L-653 Critical Issues in Health Education**
½-credit  Grades 11-12  20 weeks
Based on the incredible amount of stressors placed on young people today, this course is designed to build upon the knowledge from Health I to continue the development of a healthy teen population. This course will expand the knowledge, attitudes and skills needed for a healthy lifestyle using seminar techniques. The course will include lectures, discussions, guest speakers, field trips, research, and projects. A strong emphasis will be placed on the most compelling and current health issues facing teens today. Participants will be able to explore various health related careers and may do some community outreach as well. Overall, the course objective is to enable the students to make well-informed, educated decisions regarding their health using the most updated information and for the students to acquire and strengthen their own decision making and refusal skills.

**Prerequisite:** Students need to take Course 652 Health before taking this course.
**MATH**

The philosophy of the Mathematics Department is that all students should complete four years of mathematics at the high school level. While the courses presented below appeal to the broadest spectrum of students, Honors and Advanced Placement courses deal with math on a more abstract level. Special Education core courses (700 series) are listed in that section of this catalog.

### 307 Algebra 1
1-credit  Grade 9  40 weeks
This is the first year of a three-year sequence in the New York State Learning Standards sequence. The main focus of this course is Algebra in the many applications that will extend into functions, favorable quadratic equations, graphing linear and quadratic equations, and statistics. Students will take the Algebra 1 Regents Exams in June.

### 308- Algebra 1A/1B Extended
1.5 -Credit  Grade 9  40 weeks
This is the first year of a three-year sequence in the New York State Learning Standards sequence. This course is designed for students who will benefit from extended instruction in the Algebra 1 program. While the content of this course matches that of Algebra 1 (0307), the additional instructional time afforded through this course allows for different pacing and skill development opportunities through this foundational math curriculum. Students will take the Algebra 1 Regents Exam in June.

### 312 Geometry
1-credit  Grades 9-11  40 weeks
This is the second year of a three-year sequence in the New York State Learning Standards sequence. The main focus of this course is a variety of applications in Geometry, including congruence, proof, constructions, similarity, basic trigonometry, extending to three-dimensions, connecting Algebra and Geometry through coordinates, and circles. This course will prepare students for the Geometry Regents Exam in June.

### 313 Geometry Honors
1-credit  Grades 9-11  40 weeks
This is the second year of a three-year sequence comprised of the New York State Learning Standards sequence. Applications in Geometry such as formal and informal proofs, geometric relationships, coordinate geometry, transformational geometry, constructions, and locus problems will be supplemented with other topics and independent projects. This course will prepare students for the Geometry Regents Exam in June.

### 321 Topics in Geometry and Algebra
1 credit  Grades 10-11  40 weeks
This course is designed for students who have completed Course 307 (Algebra 1), but who found the course challenging. This one-year course is designed to provide a course of study to students seeking a second-year offering in mathematics. Intended for the college-bound student, this course includes topics that will further develop skills in Geometry and Algebra. These may include congruence, proof, constructions, similarity, trigonometry, extending to three dimensions, connecting Algebra and Geometry through coordinates, circles, and polynomial and rational relationships.

### 320 Algebra 2
1-credit  Grade 11-12  40 weeks
This is the third year of a three-year sequence comprised of the New York Learning Standards. This culminating course includes topics such as trigonometry (i.e., trigonometric graphing applications, and equations), rational expressions, operations, and equations, irrational and imaginary numbers, advanced quadratic equations, functions, exponents and logarithms, sequence and series, and some statistics. This course will culminate with a local final exam in June.

### 327 Algebra 2 Honors
1-credit  Grade 10-11  40 weeks
This is the third year of a three-year sequence comprised of NYS Learning Standards. This course includes topics such as trigonometry (i.e., trigonometric graphing applications, and equations), rational expressions, operations, and equations, irrational and imaginary numbers, advanced quadratic equations, functions, exponents and logarithms, sequence and series, and some statistics. These topics may be supplemented with other topics and with independent projects. This course will culminate with a local final exam in June. Students who master this course may also consider taking the Mathematics Level 1 SAT Subject Test in June.

### 328 Advanced Regents (Algebra 2) Prep
This is a non-credit bearing course that will prepare those students seeking to earn an Advanced Regents Diploma, addressing topics which may be included on the NYS Regents Exam in Algebra 2.

Specifically, this course will cover topics required for the Algebra 2 Regents Exam, but which are not included in the curriculum for 0322/0323 (see above). The content of this course will be mostly probability and statistics. This course meets once every six days during 9th period (2:04-2:48).

**PLEASE NOTE:** The Advanced Regents Designation is reflected on the student's high school diploma, but not on the transcript. Therefore, it is not a factor in the college admissions process.

### 335 Advanced Algebra
1 credit  Grades 11-12  40 weeks
This course builds on algebra skills as well as appropriate sections of statistics, geometry, and trigonometry, representing a solid mathematics course for students in their third year of math. The course is designed to hone further the mathematical skills of students. It also serves to extend and improve critical thinking skills in a manner compatible with the Common Core State Standards at the Commencement Level. After successful completion of this course, students have the opportunity to enroll in Course 322 or Course 341 for a fourth year of mathematics.

### 341 College Algebra: Functions and Models
1-credit  Grade 12  40 weeks
Designed to be a fourth year offering to follow Course 335, this course is for the college-bound senior. The curriculum focuses on a variety of different functions, with a blend of algebraic and graphic approaches to their development. Three college credits may be earned through completion of this course, which is offered through the Westchester Community College ACE program. Credits transfer to SUNY schools and many other colleges as well. There is a cost per credit of approximately $60.
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<td>Introduction to C++ Computer Programming</td>
<td>1-Credit</td>
<td>Grades 9 - 12</td>
<td>40 weeks</td>
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**NOTE:** Some courses may be offered in alternate years. Please consult your Guidance Counselor for more information.
The Lakeland and Walter Panas High School Music Departments provide all students with a comprehensive, standards-based music education. The study of music fosters artistic development, critical thinking, intellectual curiosity, and the pursuit of life-long learning. Through performing and responding to music, all students develop individual and intrapersonal skills, realize a sense of belonging, and establish connections to the community. Students are encouraged to enroll in both performance-based and generalized musical courses throughout their four years of high school.

**NOTE:** Some courses may be offered in alternate years. Please consult your Guidance Counselor for more information.

### 581 Concert Band
1-credit Grades 9-12 40 weeks

This performing group is open to all students from grades 9-12 who play a band instrument. Students will have the opportunity to study and perform a wide variety of music from different genres and cultures. The band will perform mostly NYSSMA level 3 & 4 pieces, and will work to further develop performance skills and music appreciation. Attendance is required at small group music lessons which occur on a rotating schedule throughout the week. Students must practice outside of school on a weekly basis, and are expected to provide care of their own (or school rented) instruments and accessories. Students will be graded on participation in rehearsals, work assigned in music lessons, and attendance at performances.

### L-582 Ninth Grade – Orchestra
1-credit Grades 9 40 weeks

This course is offered according to specific building enrollment needs.

### 583 Orchestra
1-credit Grades 9-12 40 weeks

The instrumental composition of the Orchestra is determined on the basis of student interest and technical competence. The String Orchestra is composed of qualified string players. The Symphony Orchestra is composed of selected members from the bands who perform with the String Orchestra. The Orchestra performs independent concerts in addition to the regular school concert series as printed in the school calendar. Attendance is required at all rehearsals and concerts. Regular home practice is required. Students are expected to provide and care for their own instruments and accessories. The appropriate director must approve any exceptions. This course meets the N.Y. State Regents requirement for music or art.

### P-599 Philharmonia Orchestra
1-credit Grades 9-12 40 weeks

This advanced orchestra course is designed for students who have demonstrated a capacity for developing advanced listening, auditory skills and advanced knowledge of string techniques, musical literacy and orchestral performance. This is a year-long course that meets daily. Students will perform a variety of challenging orchestral music and will perform NYSSMA level V and VI music exclusively. Philharmonia is open to exceptionally talented students by audition. The ability to perform with strong tone, intonation and vibrato is a prerequisite and strong musical aptitude is required.

### 596 Wind Ensemble
1-credit Grade 9-12 40 weeks

Wind Ensemble is open to exceptionally talented band musicians from grades 9-12. Acceptance into the group is by audition. This group will perform mostly NYSSMA level 5 & 6 pieces. The instrumental composition of the ensemble will vary based on student proficiency and director's choice. Attendance is required at small group music lessons which occur on a rotating schedule throughout the week. Private music instruction and participation in the NYSSMA music festival are encouraged. Students are expected to provide care of their own (or school rented) instruments and accessories. Students will be graded on participation in rehearsals, work assigned in music lessons, and performances.

**Audition Process:** Students will audition using the NYSSMA level 5 and 6 rubric. This includes scales, sight reading, and a prepared piece (supplied by the teacher) one month before the audition.

### 585 Chorus
1-credit Grades 9-12 40 weeks

This course includes membership in chorus. In this course emphasis is placed on vocal technique through the study of a variety of musical genres including classic choral literature, musical theater selections, and popular music. The choral program offers a student a traditional choral experience with the option of a smaller ensemble performance. Students with substantial and minimal vocal experience are encouraged to enroll in this course. During the year, students are required to sing individually as well as in a group setting; participate in the regular school concert series; and attend daily rehearsals. Individual participation at the maximum level directly relates to the success of that level of the ensemble. Select choral students may have the opportunity to participate in the Intermediate All-County, Area All-State, NYSSMA Festivals, and competition choir. This course meets the N.Y. State Regents requirement for music or art.

### P-597—Chamber Choir
1-credit Grades 9-12 40 weeks

This advanced vocal course is designed for students who have demonstrated a capacity for developing advanced listening, auditory skills and advanced knowledge of vocal techniques, musical literacy, and choral performance. This year-long course meets daily. Students will perform a variety of challenging vocal music and NYSSMA level V and VI music exclusively. Chamber Choir is open to exceptionally talented students by audition. The ability to read music is a prerequisite and the ability to part-sing is strongly encouraged.

### 587 Music Theory 1
1-credit Grades 9-12 40 weeks

This course will explore musical construction. Students will be able to read, write, and analyze music upon completion of this course. It introduces students to music history and appreciation. Previous music reading experience is helpful, but not required. This course meets the Regents requirement for music or art.

### 591 AP Music Theory
1-credit Grades 10-12 40 weeks

The focus of the AP Music Theory course is to foster growth in the student's ability to understand and recognize the basic process of music that one would hear or see in a musical score. A student who enrolls in this course will develop aural, sight-singing, written, composition, and analytical skills in music. Technical computer applications are part of this course and are often used for independent work. Upon completion of this course, students will be prepared to take the AP Music Theory Exam. This course presents a solid foundation for students who are planning to major in music in college; however it is not limited to those students. AP Music Theory will encourage all students to advance their musicianship through the analytical process of music, culminating in a deeper understanding of music through theory with an expected outcome of advanced levels of personal musicianship.

**Prerequisite:** Successful completion of Music Theory I or teacher approval.
MUSIC (Cont.) NOTE: Some courses may be offered in alternate years. Please consult your Guidance Counselor for more information.

L-592 Musical Theatre and Drama
1-credit Grades 9-12 40 weeks

Students will be introduced to the background and history of classic operatic works through the accomplishments of contemporary American musical composers. Curriculum content will also include the technical aspects of a production, the auditioning process, and producing and directing a musical. Selected scores, scripts, and libretti will be used to study plot development and characters with experiences resulting in classroom and workshop performances. Students are required to take part in all performance-based activities and take written exams. Culminating field trips will be taken as often as possible. The only prerequisite for this course is a genuine love of theatre and/or the desire to learn about it. This course meets the N.Y. State Regents requirement for music or art.

593 Music Plan A
½-credit Grades 9-12 40 weeks

This is an independent study course. To join this class, qualified students may apply during the first semester to the performing group director or to the teacher who provides the school lessons. Credit is earned by:

1. Practicing a minimum of 5 hours per week
2. Turning in record substantiating additional practice each quarter
3. Performing four recitals on a NYSSMA Grade 4-6 level (one at the end of each quarter) to be judged by the music faculty

Students must take at least one music lesson each week or two lessons per month. Monthly lesson instruction must equal a minimum of two hours. Students must complete at least 36 weeks of study during the school year. Other requirements are designated in the Music Plan A Requirements Packet that is available from the Music Department. This course does not meet the NY State Regents requirements for music and art.

Prerequisite: Permission of the faculty member assigned to this course and/or the department coordinator is required. Enrollment in Instrumental/Vocal music is strongly advised, but not required.

594 Music Technology & Digital Recording
1-credit Grades 9-12 40 weeks

Students will study fundamentals of music notation and instrumental transpositions to learn how to arrange and create music scores, orchestrations, and background tracks for TV and film. Students will also study fundamentals of acoustics, sound reinforcement, and digital recording in order to gain a better understanding of how to record and reproduce live performances, lectures, and other presentations. This course meets the NY State Regents graduation requirement for music or art.

595 Advanced Music Production
1-credit Grades 10-12 40 weeks

Advanced music production is the continuation of music technology and digital recording. In most cases students should take music technology first; however, advanced music production is open to students who have taken another high school music class with a recommendation by their teacher, or have previous production experience.

Students will learn composition and production techniques in a hands on studio environment. Composition, mixing, microphone techniques, live sound reinforcement, film scoring, sound design, and theory will be studied at an advanced level throughout the year. Students will be involved in running live sound and recording for school functions and concerts. Students will work together to produce a class album featuring original and cover songs. This course will help students be ready to study music production at a collegiate level and for the professional industry.

P-598 Guitar
1-credit Grades 9-12 40 weeks

Guitar is a one-year course covering the basics of the instrument. Students will learn music notation, chord symbols, and standard guitar tablature. Students will learn how to play various styles of music including classical, jazz, blues, and rock. Students will also learn a brief history of the instrument, and its respective musical styles and cultural impacts. The goal of the course is to gain an advanced appreciation of music through learning guitar. There will be opportunities to play solo and in small and large group settings. Students will also learn improvisation, songwriting, and how to perform in a standard rock band. The course will culminate with a final recital.

PHYSICAL EDUCATION

The Physical Education Program at the secondary level is coeducational. Activities are skill oriented with emphasis on physical fitness and participation on team sports as well as in individual lifetime sports. The secondary program provides more complex activities than those offered in the elementary and middle schools. All students are required to take and satisfactorily complete physical education in order to meet NYS Education Department and Lakeland School District requirements.

660 Physical Education 9 & 10
½-credit Grades 9-10 40 weeks

The physical education program in grades 9 and 10 is skill oriented, with emphasis on physical fitness and team and individual sports.

670 Physical Education 11 & 12
½-credit Grades 11-12 40 weeks

The physical education program in grades 11 and 12 is more selective than in grades 9 and 10. Students have an opportunity to select a block of activities in which they wish to participate. Emphasis is placed on individual and lifetime activities.

PHYSICAL EDUCATION ELECTIVE

P-687 Personal Fitness
½-credit Grades 9-12 40 weeks

This course will offer a more comprehensive and in-depth approach to one's personal fitness. The course will be considered a Physical Education elective and will include a variety of personal health activities including, but not limited to: cardio-respiratory training, weight training, yoga, etc.
The Science Department seeks to develop in its students a lifelong appreciation of science and its processes in the natural world. Students will develop techniques of self-directed learning and the collaborative skills necessary for working in a group setting to reach common goals. They will work with equipment and materials in a safe laboratory environment. Students will be able to demonstrate an ability to pose problems, collect and analyze relevant data, make unbiased observations in the natural world, formulate realistic solutions, and draw meaningful conclusions. The 700 series courses listed in the content areas represent the Special Education Core Courses.

NOTE: Some courses may be offered in alternate years. Please consult your Guidance Counselor for more information.

The Living Environment

All courses in this area deal with the study of living organisms. Topics include cell structure and function, biochemistry, animal and plant biology, human anatomy and physiology, reproduction and development, genetics, evolution and ecology. Regents and Honors living environment courses have a lab requirement, which must be met to be able to take the Regents exam. A living environment course is required for graduation.

223/747 Living Environment - Regents
1-credit Grade 9-10 40 weeks
This course provides a fundamental knowledge of the biological sciences. Lab and classroom topics include cell theory, plant and animal biology, biochemistry, genetics, evolution, human physiology, reproduction, and ecology.
Satisfactory completion of a laboratory requirement is necessary to take the Regents examination.

224 Living Environment - Honors
1-credit Grades 9-10 40 weeks
The topics of cell biology, biochemistry, genetics, evolution, botany, human anatomy and physiology, reproduction and development, and ecology are presented in greater depth in this course than in the regular biology course. Advanced genetic topics will be included.
Individualized projects are an integral part of the curriculum.
Students must be highly motivated and capable of independent work.
Satisfactory completion of a laboratory requirement is necessary to take the Regents examination.

Students who master this course may consider taking the SAT Subject Test in Biology in early June. Additional independent student preparation is required prior to sitting for any SAT Subject Test.
Prerequisite: Students who master this course may consider taking the SAT Subject Test in Biology in early June.

263 AP Biology
1-credit Grades 11-12 40 weeks
AP Biology is a college-level biology course. Biology AP covers all areas of biology but to a greater depth than covered in both the Regents and Honors courses in Grades 9/10. This course is recommended for those students planning to major in science or pre-med in college. This course follows the curriculum established by the College Board and prepares students for the AP Biology exam. The AP Program requires that have successfully completed high school courses in biology and chemistry. This requirement is due to the advanced nature of the study of the complex biological systems.
Students who qualify based upon their examination scores may receive college credit and/or course waivers. There is a district evaluation at the end of the course. Students who master this course may consider taking the SAT Subject Test in Biology in early June.
Prerequisite: The student must have passed a chemistry course.
Recommendation: It is recommended that a student has achieved an 85 or better in a Chemistry course and Regents exam and an 85 or better in Living Environment and the Regents exam. This course should not be used as a substitute for Physics particularly for those students who plan to pursue science-related fields in college.

The Physical Setting:

Earth Science

203 Earth Science-Regents
1-credit Grade 9-10 40 weeks
This course covers the following topics through the investigative approach including: geology, an in-depth study of rocks and minerals and Earth's interior, weather and climate trends, and astronomy (the solar system and Earth's motions). Students in this course obtain much of their information from lab exercises.
Classes meet eight periods per cycle. The Earth Science Regents Exam is given at the completion of the course. Satisfactory completion of a laboratory requirement is a prerequisite for taking the Regents exam.

204 Earth Science-Honors
1-credit Grade 10 40 weeks
Earth Science Honors is an accelerated laboratory course which integrates an in-depth study of Earth's properties and processes. The course will focus on plate tectonics, volcanism, earthquakes, glaciation, orogeny, topography, geologic history and the formation of rocks and minerals. Also included in this course is a study of meteorology, weather phenomena, and climate. Lastly, Earth's place in the universe will be explored.
Classes meet 8 periods per cycle. The Earth Science Regents Exam is given at the completion of the course. Satisfactory completion of a laboratory requirement is a prerequisite for taking the Regents exam.
Recommendation: Successful completion of a laboratory requirement is a prerequisite for taking the Regents exam.

NOTE ON ADVANCED PLACEMENT COURSES: It is the expectation of the Lakeland School District that all who enroll in an AP course will take the AP exam in May and will pay for the exam no later than the end of the first semester of study.
The Physical Setting: Chemistry

These courses are concerned with the structure and changes of matter and the relationship with energy. Topics include atomic structure, organization of the elements, chemical bonding, the solution process, states of matter, chemical reactions, and nuclear chemistry. All chemistry courses have a lab requirement, which must be met before sitting for the Regents exam. Successful completion of a Chemistry course is usually required to pursue a major in any field of Science as well as: Physician, Physical Therapy, Physician’s Assistant, Pharmacy, Nursing, Dentistry, Veterinary Medicine, Engineering, or Forensics.

233 Chemistry-Regents
1-credit  Grade 11  40 weeks
This course provides students a solid understanding of chemical principals and skills that are needed for college. The study of chemistry involves the study of matter, its composition, structure, properties, and the changes it undergoes. There is a mathematics component to the course which requires intricate algebra skills which will be used to quantitatively define chemical relationships and reactions. As an upper level science class it is significantly more challenging than previous courses.
Classes meet 8 periods per cycle. The Regents exam is required at the end of the course and constitutes 20% of the final average. Satisfactory completion of a lab requirement is a prerequisite before sitting for the Regents exam.
Prerequisite: Students must have achieved a passing grade in an algebra course and at least one science Regents exam.
Recommendation: Students should also be enrolled in or have completed Geometry.

234 Chemistry-Honors
1-credit  Grades 10-11  40 weeks
Honors Chemistry is a rigorous introductory chemistry course. This course is designed to meet the needs of students seeking a more stringent academic challenge than offered by the Regents program. Students must have a high level of achievement of algebra and mathematical skills. The emphasis of the course is on understanding the chemistry concepts and the intricate details. The course covers in-depth conceptual and mathematical approaches to chemical equations as well as extensions into topics required for the SAT II Subject Test and preparation for AP Chemistry. The rigor of the course reflects a movement towards college level work. The honors activities are advanced in concept, critical thinking, and self-motivation.
The Regents exam is required at the end of the course and constitutes 20% of the final average. Satisfactory completion of a lab requirement is a prerequisite before sitting for the Regents exam. Students who master this course may consider taking the SAT Subject Test in Chemistry in early June. The AP Chemistry course is designed to be taken only after successful completion of a first course in high school chemistry.
Prerequisite: Students must have achieved an 85 or better in Chemistry-Honors or approval of teacher. This course should not be used as a substitute for physics. Students should have passed Algebra2/Trig and be concurrently enrolled in Pre-Calculus.
Recommendation: Students who master this course may consider taking the SAT Subject Test in Chemistry in early June. The AP Chemistry course is designed to be taken only after successful completion of a first course in high school chemistry.
Prerequisite: Students must have passed a previous Chemistry course.
Recommendation: A student should have achieved an 85 or better in Chemistry-Honors or approval of teacher. This course should not be used as a substitute for physics. Students should have passed Algebra2/Trig and be concurrently enrolled in Pre-Calculus.

261 AP Chemistry
1-credit  Grades 11-12  40 weeks
AP Chemistry Course is designed to be a college level course. The course covers many aspects of chemistry on a more quantitative level than in other courses. Students who plan to major in science, math, or pre-med in college will find this course useful and challenging. The course follows the Advanced Placement curriculum established by the College Board and prepares students for the AP examination. Students who qualify based upon their examination scores may receive college credit and/or course waivers. Classes meet eight periods per cycle.
Recommendation: Students who master this course may consider taking the SAT Subject Test in Chemistry in early June. The AP Chemistry course is designed to be taken only after successful completion of a first course in high school chemistry.
Prerequisite: Students who master this course may consider taking the SAT Subject Test in Chemistry in early June. The AP Chemistry course is designed to be taken only after successful completion of a first course in high school chemistry.
Recommendation: Students who master this course may consider taking the SAT Subject Test in Chemistry in early June. The AP Chemistry course is designed to be taken only after successful completion of a first course in high school chemistry.

P-772 Connections to Chemistry
1-credit  Grades 11-12  40 weeks
This introductory course will cover four perspectives that define chemistry: historical discoveries, methods of science, real world connections and laboratory competency. Students will model major discoveries, learn basic laboratory analysis techniques and apply these to organizing and identifying chemicals that are involved in everyday life. Topics will include: Discovering the atom, states of matter, nuclear energy and medicine, polymers and hydrocarbons, and quantitative chemistry.
Prerequisite: Satisfactory completion of one Regents science exam and passing the Living Environment course.

NOTE: Some courses may be offered in alternate years. Please consult your Guidance Counselor for more information.

NOTE ON ADVANCED PLACEMENT COURSES: It is the expectation of the Lakeland School District that all who enroll in an AP course will take the AP exam in May and will pay for the exam no later than the end of the first semester of study.
All of the physics courses involve the study of the transformations of matter and energy. Physics is the study of energy and the basic forces in the universe. All of the physics courses involve the study of the transformations of matter and energy. They all have a laboratory requirement that must be met before the student may take the Regents examination. Students who are college-bound are encouraged to take a Physics course in their high school program. It is recommended that students who take four years of science enroll in physics.

**Physics**

243 Physics
1-credit   Grades 11-12   40 weeks
Physics is the study of energy and the basic forces in the universe. Topics include mechanical motion and forces, heat, wave phenomena, electricity, magnetism, light, and atomic energy.

The course is very experiment (hands-on) oriented. The Regents exam is optional. Satisfactory completion of a laboratory requirement is a prerequisite before sitting for the Regents exam. The course prepares students for the AP Physics 1 examination (non-calculus based course). Students who have a high interest in science and who plan on majoring in any area of science or engineering in college will find this course useful and challenging. This course follows the Advanced Placement curriculum established by the College Board and meets eight periods per cycle.

**Recommendation:** Students must have successfully completed Algebra 2/Trigonometry or Algebra 2/Trigonometry Honors. Students must also have completed their living environment requirement and two years commencement level science courses.

246 AP Physics 1
1-credit   Grades 11-12   40 weeks
This course is the equivalent of a first-semester college course in algebra-based physics.

The course covers Newtonian mechanics (including rotational dynamics and angular momentum); work, energy, and power; mechanical waves and sound. It will also introduce electric circuits.

The course prepares students for the AP Physics 1 examination (non-calculus based course). Students who have a high interest in science and who plan on majoring in any area of science or engineering in college will find this course useful and challenging. This course follows the Advanced Placement curriculum established by the College Board and meets eight periods per cycle.

**Recommendation:** It is recommended that a student has achieved an 85 or better in Chemistry and scored an 85 or better on the Chemistry Regents. Students should have successfully completed Algebra 2/Trigonometry or Algebra 2/Trigonometry Honors.

**Additional Science Offerings**

264 Science Research
1-credit   Grades 9-12   40 weeks
This course gives students the opportunity to pursue original, independent research in an area of their choice. The course prepares students to design, implement, and present their research to the public through competitions including Intel STS, Siemens, ISEF, JSHS, and others. Students may enroll for all or part of four years and two summers working with a mentor scientist from the academic and/or business worlds. SUNY at Albany credits (up to 12) are awarded if portfolio criteria are met.

**Recommendation:** Strong interest, evidence of disciplined work habits, a student essay, and teacher recommendation are necessary for participation in this course.

265 AP Environmental Science
1-credit   Grades 11-12   40 weeks
This course is an introductory college-level course. The goal of the AP Environmental Science course is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving or preventing them. Environmental science is interdisciplinary; it embraces a wide variety of topics from different areas of study. This course follows the curriculum established by the College Board and prepares students for the AP Environmental exam. Students who qualify based upon their examination scores may receive college credit and/or course waivers.

**Recommendation:** It is recommended that a student completes Earth Science and Living Environment and achieves an 85 or better. This course can be taken concurrently with Chemistry R or H.

**PLEASE NOTE:** Summer academic assignments are required due to the breadth of content in this course. Related assessments will be conducted at the start of the school year. Assignments can be found on the school’s website, and texts can be picked up during the Regents Exam week in June.

247 AP Physics 2
1-credit   Grades 11-12   40 weeks
This course is the equivalent of a first-semester college course in algebra-based physics.

AP Physics 2 is an algebra-based, introductory college-level physics course that explores topics such as fluid statics and dynamics; thermodynamics with kinetic theory; PV diagrams and probability; electro statics; electrical circuits with capacitors; magnetic fields; electromagnetism; physical and geometric optics; and quantum, atomic, and nuclear physics. Through inquiry-based learning, students will develop scientific critical thinking and reasoning skills.

This course requires that 25 percent of the instructional time will be spent in hands-on laboratory work, with an emphasis on inquiry-based investigations that provide students with opportunities to apply the science practices. This class meets eight periods per cycle.

**Recommendation:** Students should have had AP Physics 1 or a comparable course.

**Prerequisite:** It is recommended that a student has achieved an 85 or better in Chemistry and scored an 85 or better on the Chemistry Regents. Students should have successfully completed Algebra 2/Trigonometry or Algebra 2/Trigonometry Honors.
Additional Science Offerings (continued)

NOTE: Some courses may be offered in alternate years. Please consult your Guidance Counselor for more information.

267 Forensics 1
½-credit Grades 11-12 20 weeks
This course will explore a variety of areas in forensic science including collecting and analyzing physical evidence. Students will use chemical and biological techniques and equipment to examine blood, fibers, fingerprints, DNA, and other types of residues and materials left at crime scenes. Different material will be studied each semester. Students may enroll for both semesters or for Forensics I only. A local examination will be given at the end of each semester.
Recommendation: It is recommended that students successfully complete Living Environment and Earth science.
Prerequisite: Forensics I must be completed before enrolling in Forensics II.

L-270 Meteorology
½-credit Grades 10-12 20 weeks
Students will look at the forces that drive our weather systems and how our world is shaped by our weather. We will look at the phenomena of tornadoes, lightning, hurricanes, thunderstorms, and snowstorms.
Students study these phenomena using real-time weather data bases obtained via the Internet and recording weather instruments of the Lakeland Weather Club. Students are expected to write research papers and make class presentations. A local exam is given at the end of the course.
Recommendation: It is recommended that students have successfully completed Earth Science and taken one additional science course. Satisfactory completion of one Regents Exam in Science is also recommended.

L-275 Oceanography
½-credit Grades 10-12 20 weeks
This course offers an introduction to marine science including marine biology, marine meteorology, physical and chemical oceanography, marine biology, and ecology. Lab experience and field trips are included. A local examination is given at the end of the course.
Recommendation: It is recommended that students have successfully completed Living Environment and have taken one additional science course. Satisfactory completion of one Regents Exam in Science is also recommended.

277 Robotics
1-credit Grades 10-12 40 weeks
This one-year course studies the design, construction and programming of various self-directed robots. Students will be able to program robots to move, grab objects, deal with obstacles, run through a maze, react to spoken commands and compete with other robots in competition. Robotics Engineering is a hands-on, fully interactive course open to 10th, 11th, and 12th grade students.

280 Principles of Engineering
1-credit Grades 11-12 40 weeks
This introductory course is an integrative, hands-on project-based set of case studies, which will convey some of the key concepts and principles, skills, and techniques, and attitudes underlying engineering. The course will bring math, science, technology, and technological literacy together. Topics include but are not limited to: definition and types of engineering, communications and documentation, design, engineering systems, strength of materials, materials, and reliability engineering.
Prerequisite: Satisfactory completion of one Regents science exam and passing Living Environment.

061 Learning Center (Science)
No credit Grades 10-12
This course is mandated by New York State Educational Law for any student whose test scores fall below the state reference points.
This is a non-credit bearing course. Other students who need academic assistance may be scheduled into the program to receive academic support in building study skills, and learning test-taking skills.

P-278 Environment and Society
1-credit Grades 10-12 40 weeks
This course examines environmental and social impacts of industrial society and policy responses. We will explore current trends in industrialization, urbanization, and globalization, analyze the impacts these trends have on human health, environmental sustainability, and equity, and then examine a range of options available for responding to current problems. The course will present key trends in both domestic and international contexts. In particular this course will examine (1) industrial pollution and climate change; (2) agriculture and food shortages; (3) protecting ecosystems; (4) societies' waste including e-waste; (5) the looming water crisis and (6) sustainable cities. Through these issues, we will explore underlying processes and drivers of environmental degradation. Finally, we will analyze opportunities and barriers to policy responses taken by governments, international institutions, corporations, non-governmental organizations, consumers, and impacted communities.
SOCIAL STUDIES

Students completing the required sequence of courses in Social Studies will demonstrate an understanding of democratic values and responsibility for government. They will gain an appreciation of cultural diversity, an overview of world history, and an understanding of contemporary issues. They will develop an awareness of the economic, social, political, and environmental interdependence of all nations and people. They will acquire knowledge of their role in today's world and their place in the world of the 21st century. In addition, students will gain skill in critical thinking, problem solving, research, and communication.

REGENTS: The purpose of this level is to reinforce basic critical reading, writing, and research skills. It will develop the processes of critically reasoned approach to the analysis of history. Students in this level are required to pass the Regents Examination at the completion of both the Global History course at the end of the 10th grade and the U.S. History and Government course at the end of the 11th grade. Students must complete Politics (1/2 credit) and Economics (1/2 credit) or their qualified alternatives in order to graduate.

ADVANCED PLACEMENT: These courses are designed for students of above average ability with at least an 85 average and high motivation. There is an emphasis on the use of primary and secondary source materials, and the writing of papers that stress both critical thinking and analysis. Students at this level are required to pass the Global Studies Regents Examination at the end of the 10th grade, and the American History and Government Regents Examination at the end of 11th grade. Students registered for Advanced Placement courses are required to take the Advanced Placement Examination associated with their respective programs. Students must complete Politics (1/2 credit) and Economics (1/2 credit) or their qualified alternatives in order to graduate.

The Special Education core courses (700 series) are listed in their content areas.

NOTE: Some courses may be offered in alternate years. Please consult your school counselor for more information.

103/712 Global History I
1-credit Grade 9 40 weeks
This two-year program for grades 9-10 provides students with the opportunity to study the history of the world. A chronological approach cultivates the knowledge, skills, and attitudes needed to function effectively in an interdependent, diverse world. The courses focus on the historical process and global themes by utilizing primary sources and documents. The period emphasized in Global History I is the pre-historic era to 1750 A.D. In Global History II, 1750 to the present time will be covered. Students will be required to take the Global History Regents Examination at the end of Global History II.

123/722 Global History II
1-credit Grade 10 40 weeks

104 Pre-AP World History
1-credit Grade 9 40 weeks
Taught as a college-level class, this course covers the period from pre-historic times to 1750 A.D. This course requires considerable outside reading, use of a college text, with additional essay writing for the development of critical-thinking skills. This course is a prerequisite for AP World History in Grade 10.

149 AP World History
1-credit Grade 10 40 weeks
This course follows the curriculum established by the College Board. It is a course designed to challenge students to work at the college level. Students are required to take both the AP World History examination in May and the Global History Regents Examination in June. The course emphasizes cultural and social systems, the development of international connections, technological developments, social reform and revolution, and the patterns of continuity and change that have evolved over time. In addition the diversity of interpretations of world history will be examined. Students are expected to complete summer work, which will include reading and written assignments, prior to the start of the course.

Students will be required to take the Global History Regents Examination at the end of this course.

Students who master this course may also consider taking the SAT World History Subject Test in June.

133/787 U.S. History & Government
1-credit Grade 11 40 weeks
Through the study of United States History and government from the 17th century to the present, students will be introduced to political, social, economic, and cultural developments and interactions. Topics include: constitutional principles, institutions of government, foreign policy, economic systems and their political impact, immigration and diversity, citizenship, civil rights and liberties, reform movements, and the historical significance of science and technology. Students will be required to take the U.S. History and Government Regents Examination at the end of this course.

134 AP U.S. History
1-credit Grades 11-12 40 weeks
This is a college-level course with emphasis on the English Colonies, American Revolution and Constitution, the Jacksonian Era, Sectionalism, the Civil War and Reconstruction, the Populist and Progressive Eras, the Great Depression and New Deal, and the Cold War. Students utilize a college-level text as well as a number of interpretive readings. Extensive writing and periodic research on a variety of topics are part of the course requirements. Students enrolled in AP U.S. History are expected to complete summer work, which will include reading and written assignments. Students are required to take both the AP U.S. examination in May and the U.S. Regents Examination in June. Students may also consider taking the SAT U.S. Subject Test in June.

143/734 Economics
1/2-credit Grade 12 20 weeks
The New York State Department of Education requires that every student complete a 1/2 unit of Politics and a 1/2 unit of Economics to meet graduation standards. The Economics program will introduce students to the three primary components of the state curriculum: macroeconomic theory, entrepreneurship, and personal finance. Students will examine the basic concepts of the three components with an emphasis on the interdependence of the American economy with that of the 21st century world. Students must take this course or its approved alternate course in order to graduate.
SOCIAL STUDIES (continued)

L-0138- SUPA American History 101/102
1 credit  Grade 11  40 weeks
This college-level course, taught through a partnership with Syracuse University, offers students the opportunity to earn six college credits while satisfying the US History curriculum required for graduation. The American History sequence is comprised of History 101: American History to 1865 (fall semester) and History 102: The United States Since 1865 (spring semester). In this course students will study American attitudes and beliefs about political democracy, social justice, economic opportunity, equality, and the environment; and students will trace how those attitudes and beliefs have evolved in the first two-and-a-half centuries of American history. Through this course of study, students will not only learn more about the American experience, but they will further develop academic skills involving critical reading, constructing persuasive arguments, using evidence effectively, and honing a variety of crucial analytic skills. At the end of the course, students will be required to take the US History Regents Exam. To receive credit through Syracuse, students must pay a discounted fee of $336 per course, or $672 for both courses.

P-0153- SUPA Sports Management: Principals & Contemporary Issues in Sport Management
1 credit  Grade 11-12  40 weeks
This college-level course, taught through a partnership with Syracuse University, offers students the opportunity to earn three college credits. This course introduces students to sports management concepts and sectors through an examination of problems and issues faced by contemporary sport managers. Unique characteristics of sport and resulting social and ethical responsibilities of sports managers will be discussed. In addition to the use of traditional teaching methods to deliver basic sports management concepts, students are required to complete a comprehensive, hands-on project that demonstrates their comprehension of the different sectors of the industry covered throughout the semester. To receive credit through Syracuse, students must pay a discounted fee of $336.

157/735 Politics
½-credit  Grade 12  20 weeks
The Politics unit addresses the knowledge, skills, and attitudes that are necessary to ensure full participation in the political processes at the local, state, national, and global levels. The students are provided the opportunity to enhance the skills and knowledge learned in other courses. They will use the best current technology in the analysis of public issues in developed and emerging democratic societies. Students must take this course and 1/2 unit of Economics (or an approved alternate course) in order to graduate.

183 Independent Studies Economics
½ credit  Grade 12  20 weeks
This course may only be taken in conjunction with AP European History and AP Human Geography in order to meet NYS graduation requirements.

187 Independent Studies Politics
½ credit  Grade 12  20 weeks
This course may only be taken in conjunction with AP European History in order to meet NYS graduation requirements.

147 AP European History
1-credit  Grade 12  40 weeks
This course focuses on European history starting with the Renaissance. There is a special emphasis on the history of ideas and the forces that promote or hinder social change. Course requirements place a heavy emphasis on reading, writing, and analyzing historic trends. Students may be expected to complete summer work, which may include both reading and writing assignments.

NOTE: In order to satisfy NYS Department of Education requirements for graduation, students must be concurrently enrolled in Course 180, Integrated Politics and Economics. All enrolled students will be expected to take the AP European Exam.

148 AP Macroeconomics/Politics
1-credit  Grade 12  40 weeks
This Advanced Placement course will give students a through understanding of the principles of economics that apply to an economic system as a whole. It will offer an intensive examination of rational economic decision-making that would in turn lead to more informed and economically literate citizens. Topics will include basic economic concepts, measurement of economic performance, national income and price determination, economic growth factors, and international finance, exchange rates, and balance of payments. Emphasis will be placed on the study of national income and price determination and will help develop a student’s familiarity with economic performance measures, economic growth, and international economics.

NOTE: This course satisfies NYS State Department of Education curricular requirements in politics and economics. All enrolled students will be expected to take the Macroeconomics AP exam.

P-150 AP Human Geography/Politics
1-credit  Grades 12  40 weeks
This course will cover the nature and perspective of geography; population – its density, distribution and scale, growth and decline over time, and population movements; cultural patterns and processes – the concept and definition of cultures, the impact on the environment of cultural practices and cultural landscapes; political organization of space – territories, the evolution of contemporary political patterns and challenges to inherited political-territorial arrangements; agriculture and rural land use – development and diffusion of agriculture, rural land use and settlement patterns; modern commercial agriculture; industrialization and development – growth and diffusion of industrialization, contemporary patterns and impacts of industrialization and development; cities and land use – origin and evolution of cities, functional character of contemporary cities, built environment and social space.

NOTE: This course satisfies NYS Department of Education curricular requirements in politics and economics. All enrolled students will be expected to take the Human Geography AP exam.

151 AP Psychology
1-credit  Grades 11-12  40 weeks
This course explores the concepts, theories, perspectives, phenomena and behaviors associated with the sub-fields and research areas of psychology. In this class we will study topics such as the biological bases of behavior, methods of psychological research, sensation and perception, learning, cognition, human motivation, human development, atypical human behavior and thoughts, and social psychology. Students are expected to take the AP exam in May.

Recommendation: There are no pre-requisites for AP Psychology. Students should be able to read a college-level textbook and be prepared to complete college-level coursework.
P-159 Social Studies (WISE)
1-credit  Grade 12  40 weeks
Students have the option to participate in a second semester senior internship that offers English and social studies credit when they choose WISE. Admission is by application at the end of 11th grade. Internships run from February through June and include 8-10 hours per week at the site, as well as a research project and a presentation. Students in the WISE program will be representing the school in public, so it is important that the participants understand that they must demonstrate good character and good decision-making skills. Serious discipline or academic failures may prevent a student from becoming a part of or remaining in this program. This course satisfies the 1/2 credit of required senior social studies, Participation in Government.
NOTE: Students enrolled in this class must also enroll in course 044 English (WISE.)

L-144/737 Wars That Changed the World
½-credit  Grade 10-12  20 weeks
This course includes an in-depth study of the causes and effects of war. Past sessions have included discussion of the American Revolution, the Napoleonic Wars, World War I, and World War II. For each war we will investigate causes, technology used, strategy, tactics, the life of the common soldier, the impact of the war on civilians, and the impact of the war on the world. Methods of study will include the reading of first-hand accounts, historical novels and non-fiction works of your choosing; class discussion; library and archival research; lecture; movie analysis; playing tactical war games; listening to music and looking at art; and studying artifacts.

145 Psychology
½-credit  Grades 10-12  20 weeks
This course will cover the methods of human psychology. Through group projects, Internet sources, discussions, outside readings, and independent study, students will explore a variety of topics. The following topics will be discussed: psychological perspectives; developmental psychology; personality, psychological testing; treatment of psychological disorders. The course is designed to promote critical and informed thinking and communication about human behavior.

P-154 Introduction to Criminal Justice
½-credit  Grades 11 - 12  20 weeks
In this course, students will obtain an awareness of the entire criminal justice system, from the point when a crime is committed through sentencing the offender of the crime. The specific units include: classification of crime, causes of criminal behavior, police, courts, attorneys and judges, trials, sentencing and corrections. We also include a unit on special issues today, including juvenile justice, homeland security and cyber crime. It will meet the needs of those students who aspire to careers in the criminal justice field. Students will enhance their knowledge of the legal system and learn about the law, their rights as citizens, civil responsibilities, and the U.S. Constitution.

P-158 AP Comparative Government & Politics
½-credit  Grades 11-12  20 weeks
This course introduces students to the political history and theories of Britain, Russia, China, Nigeria, Mexico, and Iran. For each country students will study the history and political developments in the 20th and 21st centuries; reactions to change and modernization; ideology; political socialization; current political structure and processes; current government policies; globalization; democratization; political change; public policy; and citizen-state relations. Students will take the AP exam in May. Following the exam students will concentrate on college-level presentations.

L-172/736 Film and American Culture
½ credit  Grade 11-12  20 weeks
An introduction to film as a medium that can be read and which also reflects its culture and time. Conflined to American examples, this course will introduce students to the terminology of film criticism. It will then examine various genres of film e.g. comedy, the escapade, musicals, film noir, and political films. Students will be expected to have parental/guardian permission to view the selected films.

161 Debate
1 Credit  Grades 9-12  40 weeks
This course is designed for active member of the Lakeland District Debate Team. In order to be enrolled in the class, the student must be committed to a minimum of ten weekend debate tournaments and participate in the locally managed tournaments through the end of March. Students may be enrolled through each year of high school. Designed to formalize the competitive element of the Lakeland District Debate program, students are expected to meet the schedule of coaching and training session set in a calendar of monthly events. Meetings and practices are generally scheduled after schools, twice each week, depending on the student's specific level of experience. Beginning students are trained in the rudimentary processes of debate. Intermediate students are exposed to advanced theory and developmental research techniques. Advanced students are offered more complex research opportunities and innovative approaches to both theory and practice of debate. All experienced debaters are expected to assist in the training of lesser-experienced debaters and by judging at tournaments designed for younger debaters.

L-162 Internship/Politics
½ -Credit Grade 12  20 weeks
This course offers a work-based learning opportunity to assist students with the link between school and careers. During the first ten weeks, the course will prepare students for an internship experience through a variety of activities including work place issues, resume writing, the employment process, etc. Students will then have the opportunity to obtain awareness of specific careers by working as interns with mentors in their related field of interest. This course satisfies the 1/2 credit of required senior social studies, Participation in Government.
NOTE: Students enrolling in this course must also sign up for the following courses: 045-English 12 Internship and 533-Internship/Work Study

061 Learning Center
No Credit
This course is mandated by New York State Educational Law for any student whose test score on the New York State assessments in Social Studies falls below the state reference points. This is a non-credit bearing course. Other students who need academic assistance may be scheduled into the program to receive academic support in any subject area, to build study skills, and to learn test-taking skills.
The Special Education courses that follow are recommended by the Committee on Special Education (CSE). Each class section offered is dependent on the number of students enrolled in the class. The Special Education core courses (700 series) are listed in their content areas.

715 Algebra 1A
1-credit Grade 9 40 weeks
This is the first of a two-year sequence in the Integrated Algebra program. The topics that will be covered this year are operations with signed numbers, algebraic expressions, trigonometry of the right triangle, geometric figures and statistics. Students will take a departmental final exam in June. Students will take the Integrated Algebra Regents in June of the 2nd year of this program.

716 Algebra 1B
1-credit Grade 10 40 weeks
This is the second of a two-year sequence in the Integrated Algebra program. This course is designed for students who have successfully completed Math 302/715. Topics for this course include quadratic relations and functions, factoring, systems of equations, transformations, algebraic fractions, and probability. Students will take the Integrated Algebra Regents Exam in June.

717 Topics in Geometry and Algebra 2
1-credit Grades 10-12 40 weeks
Designed for students who have completed Course 716, this one-year course is designed to provide an appropriate course of study for students seeking a third-year offering in mathematics. Intended for the college-bound student, this course includes topics that will further develop skills in geometry and algebra. These include properties of triangles, quadrilaterals, and three-dimensional figures, coordinate geometry, transformations, rational expressions, operations, and equations, quadratic equations, exponents, probability, statistics, and an introduction to trigonometry. A departmental examination is administered in June. After successful completion of this course, students have the opportunity to enroll in Course 718 or Course 335.

718 Business Math
1-credit Grades 10-12 40 weeks
This math course fulfills a second or third unit of a non-Regents sequence. Units of study include personal finance, payroll, borrowing money, insurance and assorted business problems.

769 Oceanography
½-credit Grades 10-12 20 weeks
This course offers an introduction to marine science including marine biology, marine meteorology, physical and chemical oceanography, marine biology, and ecology. Lab experience and field trips are included. A local examination is given at the end of the course.
Recommendation: It is recommended that students have successfully completed Living Environment and have taken one additional science course. Satisfactory completion of one Regents Exam in Science is also recommended.

770 Ecology
½-credit Grades 10-12 20 weeks
Scientific aspects of the environment are stressed. The course deals with the economics politics and history of the environment. Individual projects will be required. This course can be used as part of the required three-year sequence in science.

775 Forensics
1-credit Grades 11-12 40 weeks
This course will explore a variety of areas in forensic science including collecting and analyzing physical evidence. Students will use chemical and biological techniques and equipment to examine blood, fibers, fingerprints, DNA, and other types of residues and materials left at crime scenes.

724 Reading Skills
1-credit Grades 9-12 40 weeks
This supplementary reading course involves instruction in a variety of reading strategies with materials from the content area.

750 Resource Education
No Credit
The Resource Education program is a support service for students with specific learning needs. It is designed to reinforce study skills and academic skills specific to the needs of the individual student. For classified students, the program is driven by Individual Education Program (IEP) goals.

751/711 Study Skills
1-credit Grade 9 40 weeks

752/721 Study Skills
1-credit Grade 10 40 weeks

753/723 Study Skills
1-credit Grade 11/12 40 Weeks
These courses are designed to provide individualized and small group instruction for students in the Special Education program.
L-701 History Skills
This is a modified social studies curriculum that incorporates current events. They will develop an understanding of various cultures, religions, geography, political systems, histories, and the environmental interdependence of all nations and people.

L-702 Math Skills
This course provides an individualized math program. Students strive to achieve mastery in the following areas: basic computation, money, use of calculators, telling of time, basic measurement, and basic consumer mathematics. Students progress at their own pace.

L-703 English Skills
This is an integrated language arts curriculum focusing on improving oral and written language skills. A variety of literary genres are used.

L-704 Science Skills
This is a modified general science curriculum that integrates health topics. Topics covered include areas of earth science, environmental, life science and personal health.

L-705 Pre-Vocational Skills
This is a pre-vocational program that emphasizes building work readiness skills through group projects. This program reinforces math, health, and social skills.

L-699 Project STRIVE
Project STRIVE is a work-study program that seeks to assess a student’s vocational strengths and abilities through a variety of job placements. The program focuses on developing positive job-related behaviors that will enable students to find and maintain employment.

L-767 Art In Our Lives
Students will explore the basics of Art through drawing, painting, sculpture and craft activities.

L-516 B.E.S.T./Intro. to Computer Skills
This is an individualized instructional program for students with special needs. The program stresses the development of employable and personal keyboarding and computer skills. This course may be taken for four consecutive years. During the third and/or fourth year of the program, students will improve their individual keyboarding skills and receive advanced instruction on computers and word processing equipment. This instruction will parallel instruction in other advanced business courses.

Departmental 3 Program
Lakeland High School houses the Departmental 3 special class program - a 4 to 6 year academic program leading to a high school diploma with an optional vocational component for students with specific learning needs requiring a more intensive academic program. Students are placed in the program through the CSE based on their educational needs. In order to assist students in completing the requirements for a high school diploma, courses culminating in a Regents examination are offered over two periods to provide additional instructional time. Individual student needs are accounted for when planning for each student and additional academic supports are implemented as appropriate. The following courses are offered at Lakeland High School through the program (courses marked with an * are two periods):

English
791 - English 9 (1 credit)
792 - English 10 (1 credit)
*793 - English 11 (2 credits)
732 - English 12 (1 credit)

Math
*794/795 - Integrated Algebra 1A/1B (2 credits)
717 - Topics in Geometry and Algebra 2 (1 credit)

Science
*796 - Living Environment (1 credit)
769 - Oceanography (1/2 credit)
770 - Ecology (1/2 credit)
776 - Forensics 1 (1/2 credit)
777 - Forensics 2 (1/2 credit)

Social Studies
797 - Global History 1 (1 credit)
*798 - Global History 2 (2 credits)
*799 - U.S. History & Government (2 credits)
734 - Economics (1/2 credit)
735 - Politics (1/2 credit)
The Lakeland School District’s Department of Modern Language believes that all students can learn a second language and should be encouraged to do so. We prepare students to understand and appreciate other cultures and to function at their appropriate levels and abilities. One high school credit in a World Language is required for graduation. However, it should be noted that New York State’s graduation requirement in a World Language (one year) is lower than most college and universities minimum entrance requirements. New York State has eliminated the Spanish and Italian Regents’ exams. There will be a local exam given at the end of the school year that will meet the requirements for the Advanced Regents diploma. 

**NOTE:** Some courses may be offered in alternate years. Please consult your Guidance Counselor for more information.

**LEVEL 1** - The purpose of a second language at this level is to introduce a student to basic speaking, listening, reading, and writing skills. Emphasis is on speaking within everyday real-life situations. By the end of the course the student should be able: to tell time, order a meal, ask for directions, describe the weather, etc.

**LEVEL 2** - At this level, reading of short passages and brief writing exercises assume increased importance. While listening and speaking continue to be stressed, more time is devoted to increasing the student’s use of vocabulary and essential structures in preparation.

**LEVEL 3** - Great emphasis is placed at this level on the ability of students to understand and express themselves orally in the language. A broader experience in reading and writing is provided to prepare students to take a school-based comprehensive final exam in June.

**LANGUAGE AND CULTURE:** Through a variety of materials, media and technology, emphasis is placed on preparing students to function in a multicultural world. Various aspects of communication skills are further enhanced through the acquisition of advanced conversational and written skills. In addition, the learning experience will be enriched by exposure to the culture (cultures) of the nations in which the language is spoken. A two-year, non-sequential curriculum may be available (Language and Culture A and Language and Culture B) depending on enrollment. It is recommended that students enrolling in this course pass a Level 3 course and final exam in either Italian or Spanish.

**LEVEL 4 HONORS** - This course is the foundation for the Advanced Placement course. The emphasis is on the AP test requirements including sophisticated vocabulary, grammar and usage, speaking, listening writing and advanced readings. The course is appropriate for the highly motivated learner and requires the approval of the Level 3 teacher. This course is a prerequisite for the Advanced Placement course. Students enrolling in this level course may be eligible to earn college credit through Westchester Community College.

**LEVEL 5 HONORS** - This college level course provides students with an opportunity to develop their linguistic as well as communicative competencies in Spanish or Italian based on readings of a literary and cultural nature while providing for additional review of grammar in the context of the reading selections. Students enrolling in this level course may be eligible to earn college credit through Westchester Community College. **Recommended:** Completion of 4H or teacher approval.

**ADVANCED PLACEMENT (AP) LANGUAGE** – The Advanced Placement course for Spanish and Italian is intended for the highly motivated language student. The courses are the equivalent of an advanced level college grammar course. The AP courses are based on the curriculum established by the Educational Testing Service and prepares students for the AP exam in May. All students enrolled in the AP class must take the examination in May. There is also a districtwide evaluation in June. Students who successfully complete this course should also consider taking the corresponding SAT Subject Test.

The following courses are all one credit each and meet for 40 weeks of the year:

- 421 - Spanish 1
- 422 - Spanish 2
- 423 - Spanish 3
- 430 - Spanish Language and Culture A*
- 425 - Spanish 4H
- 432 - Spanish 5H
- 427 - AP Spanish Language
- 441 - Italian 2
- 442 - Italian 3
- 444 - Italian 4H
- 450 - Italian Language and Culture A*
- 455 - Italian 5H
- 446 - AP Italian

*These courses may be offered in alternate years depending on enrollment. This is a non-sequential curriculum. Language and Culture A is not a prerequisite for enrollment in Language and Culture B.
The most profitable in the world. Other roles that make the sports entertainment industry one of we will learn about sports video, radio, and photography, and how athletes and products are promoted. As we study media, learn about related products, their role in the marketplace, and arena? Through an examination of sports marketing, we will answer these questions and more. Students will learn about the working in a sports-related field be like? This course will help you decide if a professional sports team? What are the roles and responsibilities of a college athletic director or facilities manager of a sports arena? Through an examination of sports marketing, we will learn about related products, their role in the marketplace, and how athletes and products are promoted. As we study media, we will learn about sports video, radio, and photography, and other roles that make the sports entertainment industry one of the most profitable in the world.

An outstanding opportunity awaits you during the 2017-2018 school year. Interested students from your school will have the opportunity to take dynamic online courses with students from high schools in the region through a consortium organized by Putnam-Northern Westchester BOCES. You can choose from among the truly innovative courses that expand your elective course offerings. As a blended program, there will be two scheduled days during the semester when you will meet with your teacher and fellow students from your class. Say goodbye to that heavy textbook and manager your coursework in a way that fits into your busy life.

FOOD FIGHT: THE TRUTH BEHIND OUR FOOD 
English/Literacy Elective - Fall Semester Only
Have you ever wondered where your food comes from? In this course, students will explore societal problems that are directly related to food availability, preparation, distribution, and consumption. Through a critical examination of nutrition articles, books, blogs, social media, consumer reports, and food labels, students will seek the truth behind some or our popular food choices. Students will take a stance, making a claim about how our nutritional choices are impacted, for good or bad, by the literature available to us. Students will generate possible solutions to the problems they identify and take steps to inform others about the truth behind our food.

ADVENTURES IN PROGRAMMING
Science Elective - Spring Semester Only
This course will introduce students to the basics of software engineering and programming languages. Students will work collaboratively on applying the skills they learn to design and create basic computer programs. They will explore how to annotate text using HTML, create and evaluate basic computer algorithms, and explore syntax and grammar underlying many programming languages. This introductory course will allow students to explore several visual programming languages.

BRAIN GAMES: THE PSYCHOLOGY OF HOW TO FOCUS, REMEMBER, AND COMMUNICATE EFFECTIVELY WITH THE TEENAGE BRAIN
Social Studies Elective - Fall and Spring Semester
Why can't I remember the answers for the exam? How can I get along better with the people in my life? How does my teenage brain work and why? This course will examine the latest research related to the adolescent brain and how to most effectively use it to remember, focus, plan, and communicate with others. Students will learn about the development of the adolescent brain compared to that of the adult brain. We will discuss how we think, plan, organize, and make judgments. Students will learn about memory through online videos, readings, and games and mnemonic devices. Students will organize and plan information for more effective long-term memory through the creation of a notebook website. Finally, we will examine the burgeoning industry of brain training through computer applications and current studies.

BEYOND MINDFULNESS
Social Studies Elective - Spring Semester Only
The Beyond Mindfulness course was designed to help students create the space in their lives for authentic learning and self-discovery through exploring the foundational concepts of mindfulness and meditation. This course will explore the historic roots of these practices from an Eastern and Western cultural standpoint and students will be introduced to Buddhism, Western Monasticism, and interreligious contemplative practices. The course will look at the application of these concepts through the modern day application of mindfulness using activities like yoga and meditation, and will offer students reflective tools for examining their own lives. Topics covered will include silence and solitude, voice and vocation, and compassion and caring.

ENGLISH COURSE - TBD
English Elective - Spring Semester Only
Information about this course will be available soon.

Foundations of Engineering and Contemporary Construction Technology
Technology Elective - Fall Semester Only
Follow the path of a modern skyscraper from planning and design, excavation, steel and concrete assembly, and mechanical installation. This course will explore the complex systems that are employed by today's architects, engineers, and construction managers as they build in New York City and around the world. Each week we will make "virtual" visits to the sites where project engineers will walk us through the challenges and complexities facing today's builders. Students will attend webinars, view videos of the project as it develops, and make actual visits to a site under study, as well as engage in informed dialogue with project engineers and architects. Through a unique partnership with a major international construction corporation, students will have the opportunity to learn firsthand what it takes to build complex structures and will be eligible to apply for a summer internship in New York City.

Introduction to Anthropology *
Social Studies Elective - Fall and Spring Semester
Anthropology has been described as an investigation into who we are now, where we came from, and how we got to be the way we are today. In this course, students will be introduced to this "holistic" social science and gain an understanding of what culture is, how it is similar and different for humans living in groups, and how it can be identified and compared. The course will develop students' inquiry skills as they use observation, questioning, interviewing, and narrative storytelling to begin to answer the questions: What is a culture? What is/are my culture(s)? How are elements of a culture transmitted from generation to generation? What causes cultural continuity? What brings about cultural change? What story do I want to tell about my culture/cultures? Finally, students will choose how to tell the story they have researched, using one of a variety of digital storytelling techniques to share their work with the class. *College credit option available.

Sports Management, Media and Marketing
Social Studies Elective - Fall Semester Only
Do sports management, media, and marketing have a role in your future? According to Forbes Magazine, despite tough economic times, sport-related industries are still expected to grow 3-5% a year over the next decade. How can you decide if a sports-related major is the right choice for you? What might working in a sports-related field be like? This course will help answer these questions and more. Students will learn about the action that takes place off the field or court by exploring management - What might it be like to be a general manager of a professional sports team? What are the roles and responsibilities of a college athletic director or facilities manager of a sports arena? Through an examination of sports marketing, we will learn about related products, their role in the marketplace, and how athletes and products are promoted. As we study media, we will learn about sports video, radio, and photography, and other roles that make the sports entertainment industry one of the most profitable in the world.
ACE Academy (Applying Connections to Education)

The ACE Academy, housed within Lakeland High School, provides an alternative educational setting for Walter Panas and Lakeland High School students in the 11th and 12th grades who recognize a need for a non-traditional school environment. Students who choose to apply to the ACE Academy have typically faced challenges within their home school of meeting traditional school expectations. Such students are often better able to experience the success of which they are capable through the ACE Academy’s smaller community of students, lower student-teacher ratios, individualized instruction, and hands-on, project based learning approach.

Students can earn credit in English, social studies, math, science, and P.E. In addition, students are able to enroll in BOCES Tech programs. Students in the ACE Academy are required to meet all graduation requirements.

Although core academic courses in the ACE Academy are designed to meet the needs of 11th and 12th grade students, opportunities may exist for appropriate sophomore applicants as well. For information on application procedures and visiting the ACE Academy, please see your high school counselor.

### Interscholastic Athletic Activities

#### FALL
- Cheerleading .................. JV, Varsity
- Men's Cross Country .......... Varsity
- Women's Cross Country ....... Varsity
- Field Hockey .................. JV, Varsity
- Football ....................... JV, Varsity
- Women's Soccer ............... JV, Varsity
- Men's Soccer .................. JV, Varsity
- Volleyball ..................... JV, Varsity
- Women's Swimming .......... Varsity (Combined)
- Women's Tennis ............... Varsity

#### WINTER
- Ice Hockey .................... Varsity (Combined)
- Men's Basketball .............. Freshman, JV, Varsity
- Women's Basketball .......... Freshman, JV, Varsity
- Men's Bowling ................. Varsity
- Women's Bowling .............. Varsity
- Cheerleading .................. JV, Varsity
- Women's Gymnastics ......... Varsity (Combined)
- Women's Indoor Track ...... Varsity (Combined)
- Men's Indoor Track .......... Varsity (Combined)
- Men's Swimming .............. Varsity (Combined)

#### SPRING
- Baseball ....................... Freshman, JV, Varsity
- Golf ............................. Varsity (Combined)
- Men's Lacrosse ............... JV, Varsity (Combined)
- Women's Lacrosse ............ JV, Varsity (Combined)
- Softball ....................... JV, Varsity
- Men's Tennis .................. Varsity
- Women's Track ............... Varsity (Combined)
- Men's Track .................. Varsity (Combined)

**Note:** Combined indicates the teams are district teams representing both Walter Panas and Lakeland High Schools.
TECH CENTER PUTNAM-NORTHERN WESTCHESTER

The Tech Center offers high school students the opportunity to gain employable skills and, in some cases, college credits while still in school. Training and skill development is accomplished on the latest equipment, including computer literacy for each occupational area. Students may come to the Tech Center for part of their school day and still be able to take required courses at their high school. Students are also able to participate in extracurricular activities at their high school should they choose to attend the Tech Center.

INTERESTED STUDENTS: Information is available through the Guidance Department at your school, or call the Student Services Office at the Tech Center (914 248-2424). Visits to the Tech Center may be arranged upon request. The following are the courses available to students at the Tech Center:

**BUSINESS CAREER ACADEMY**
- Retail Services
- Office Skills & Business Practices
- Microcomputer Technology
- Computer Technology

**COMMUNICATIONS CAREER**
- Advertising Art & Digital Design
- Employability Through the Arts
- Advertising Art & Digital Design
- TV Production & Digital Film
- Computer Graphics
- Fashion Design and Merchandising
- Animation and Motion Graphics

**CONSTRUCTION CAREER ACADEMY**
- Computer Assisted Drafting and Design
- Carpentry
- Masonry
- Construction and Building Maintenance
- Construction Electricity
- Heating/Ventilating/Air Conditioning
- Plumbing
- Welding
- Introduction to Electronic Circuitry
- Telecommunications Technology

**COSMETOLOGY CAREER ACADEMY**
- Cosmetology I
- Cosmetology II
- Cosmetic Services and Manicuring/Nail Sculpturing

**ENVIRONMENTAL SCIENCE CAREER ACADEMY**
- Floral & Greenhouse Services
- Urban Forestry
- Urban Forestry/Arboriculture
- Landscaping

**HEALTH CAREER ACADEMY**
- Certified Nurse Aide HHA
- Law Enforcement/EMS

**HOSPITALITY CAREER ACADEMY**
- Culinary Arts
- Food Prep Assistant
- Baking & Pastry Arts
- Culinary Work Study
- Food Preparation Assistant

**TEACHING CAREER ACADEMY**
- 7111 - Early Childhood Education
- 8153 - Introduction to Teaching
- 9502 - Childcare Aide

**TRANSPORTATION CAREER ACADEMY**
- Auto Body
- Auto Mechanics I
- Auto Mechanics II
- Small Engine/Motorcycle Technology
- Small Engine Repair

**CAREER EXPLORATION**
- Career Paths
- Exploratory: Food Service
- Exploratory: Auto Detailing
- Exploratory: Floral and Greenhouse Services
- Exploratory: Construction and Building Maintenance
Find information about the Lakeland School District at:
www.lakelandschools.org