



HAUPPAUGE

HIGH SCHOOL

COURSE CATALOG

2018 - 2019



HAUPPAUGE PUBLIC SCHOOLS

HAUPPAUGE HIGH SCHOOL



CHRISTINE O'CONNOR
PRINCIPAL

MICHAEL D. CAULIN
ASSISTANT PRINCIPAL

JOY FERRARA
ASSISTANT PRINCIPAL

JOSEPH WIECKHORST
ASSISTANT PRINCIPAL

Dear Parents and Students:

The 2017-18 Course Guide is provided to apprise you of current course offerings and requirements, new programs and new course selections. Department offerings and requirements illustrating the timeline in which the respective courses are to be taken are included in this booklet by discipline. Please familiarize yourselves with the descriptions of the various courses.

Hauppauge High School offers a variety of academic opportunities for students within the structure of a nine period day. The diverse curriculum includes 17 IB courses, 16 AP courses, 10 college courses, an array of honors level courses and Regents-level offerings, full continuum of special education services, three second languages, and a generous selection of elective courses.

Hauppauge High School prides itself in providing a variety of opportunities for students to challenge themselves academically. We are pleased to have earned the prestigious status as an International Baccalaureate (IB) World School. Students have the option to enroll in the full IB diploma program or to take individual IB classes as desired. As the program begins during a student's junior year, tenth grade students are strongly encouraged to further familiarize themselves with the program by reading the course guide and discussing their options with their guidance counselors at the scheduling meetings.

All graduates of Hauppauge High School are required to complete four years of English and social studies, along with three years of mathematics and science. The typical four-year sequence also provides for required credits in physical education, business, technology, art, music, and elective courses, which allow students to explore a variety of interests. A minimum of five Regents examinations must be successfully passed (Global History, U.S. History, Common Core Algebra, English, and Science) to earn a Regents diploma. The requirements for a Regents diploma with an advanced designation (successful completion of eight Regents exams) are described within.

It is important to note that staffing is determined from student course requests. After June 1st, changes should not occur unless the schedule contains an error or the student is inappropriately placed.

We strongly encourage you to work with the Counseling Center to ensure your son/daughter has a successful experience at Hauppauge High School. The administration, faculty and staff are committed to helping our students make the most of their high school years.

Sincerely,
Christine O'Connor
Christine O'Connor

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Contact Information

Open communication supports student success. If you have questions or concerns, we hope you will contact the appropriate staff members using the phone numbers and email addresses listed below.

HIGH SCHOOL ADMINISTRATION		
Ms. Christine O'Connor, Principal	761-8302	oconnorc@hauppauge.k12.ny.us
Mr. Michael Caulin, Assistant Principal	761-8310	caulinm@hauppauge.k12.ny.us
Ms. Joy Ferrara, Assistant Principal	761-8306	ferraraj@hauppauge.k12.ny.us
Mr. Joseph Wieckhorst, Assistant Principal	761-8308	wieckhorstj@hauppauge.k12.ny.us
DEPARTMENT DIRECTORS		
Mr. Daniel Butler, Phys. Ed., Health, Athletics, FACS	761-8373	butlerd@hauppauge.k12.ny.us
Ms. Doreen Gordon, Social Studies & Business	761-8320	gordond@hauppauge.k12.ny.us
Ms. Lois Jankeloff, Pupil Personnel Services	761-8342	jankeloffl@hauppauge.k12.ny.us
Ms. Lauren Knudsen, Mathematics & Data	761-8322	knudsenl@hauppauge.k12.ny.us
Dr. Laura Landor, Fine & Performing Arts	870-5780	landorl@hauppauge.k12.ny.us
Mr. Timothy McCarthy, World Language & ENL	761-8389	mccarthyt@hauppauge.k12.ny.us
Dr. Christopher Michael, English Language Arts	761-8323	michaelc@hauppauge.k12.ny.us
Mr. Robert Wankmuller, Science & Technology	761-8295	wankmullerr@hauppauge.k12.ny.us
COUNSELING DEPARTMENT		
Ms. Carolyn Probst, Assistant to the Superintendent	761-8385	probstc@hauppauge.k12.ny.us
Mr. Greg Foster, Grade 9	761-8339	fosterg@hauppauge.k12.ny.us
Ms. Kathleen Bartlett, Grades 10-12	761-8339	bartlett@hauppauge.k12.ny.us
Ms. Heather Hiotis, Grades 10-12	761-8337	hiothis@hauppauge.k12.ny.us
Ms. Danielle Montera, Grades 10-12	761-8337	monterad@hauppauge.k12.ny.us
Ms. Marisa Wanatick, Grades 10-12	761-8339	wanatickm@hauppauge.k12.ny.us
SUPPORT STAFF		
Dr. Annie Huang, School Psychologist	761-8327	huanga@hauppauge.k12.ny.us
Ms. Shannon Griffin, Social Worker	761-8328	griffins@hauppauge.k12.ny.us
Ms. Colleen Ruffini, Social Worker	761-8325	ruffinic@hauppauge.k12.ny.us
Ms. Gloria Kuzminski, Nurse	761-8318	kuzminskig@hauppauge.k12.ny.us
Ms. Mary Nowotarski, Nurse	761-8318	nowotarskim@hauppauge.k12.ny.us
INTERNATIONAL BACCALAUREATE		
Dr. Ellen Ryan, IB Coordinator	761-8391	ryane@hauppauge.k12.ny.us

Graduation Requirements

New York State offers two diploma options: a Regents Diploma and an Advanced Regents Diploma. Both diploma types are awarded based on 2 criteria: credits earned and Regents Exams passed. All students are encouraged to pursue the most rigorous course of study possible. Hauppauge High School provides the necessary support to fulfill that goal.

Regents Diploma Requirements

Content Area	Credits
English	4.0
Social Studies	4.0
Mathematics	3.0
Science	3.0
World Language	1.0
Art/Music	1.0
Health	0.5
Physical Education	2.0
Technology*	1.0
Business*	1.0
Electives	2.5
TOTAL	23.0

Regents Exams
1. Common Core English Language Arts
2. One Mathematics Regents <ul style="list-style-type: none"> • Common Core Algebra • Common Core Geometry • Common Core Algebra II
3. Global History & Geography
4. United States History & Government
5. One Science Regents <ul style="list-style-type: none"> • Living Environment • Earth Science • Chemistry • Physics

*Business and / or Technology requirement(s) can be fulfilled with a 5th credit of English or Social Studies or a 4th credit of Math, Science or World Language



**23.0 credits + 5 Regents Exams =
NYS Regents Diploma**

Advanced Regents Diploma Requirements

Content Area	Credits
English	4.0
Social Studies	4.0
Mathematics	3.0
Science	3.0
World Language**	3.0
Art/Music	1.0
Health	0.5
Physical Education	2.0
Technology*	1.0
Business*	1.0
Electives	0.5
TOTAL	23.0

Regents Exams
1. Common Core English Language Arts
2. Common Core Algebra
3. Common Core Geometry
4. Common Core Algebra II
5. Global History & Geography
6. United States History & Government
7. Living Environment
8. One Additional Science Regents <ul style="list-style-type: none"> • Earth Science • Chemistry • Physics
9. World Language

*Business and/or Technology requirement(s) can be fulfilled with a 5th credit of English or Social Studies or a 4th credit of Math, Science or World Language

**Students acquiring 5 credits in Art, Music, Business, Technology or Career & Technical education may use the sequence to replace the World Language requirement for a Regents Diploma with Advanced Designation.

**23.0 credits + 8 Regents Exams
+ World Language Exam =
NYS Advanced Regents Diploma**

Students can earn both the Regents Diploma or the Advanced Regents Diploma “with honors” averaging 90 or better on all Regents Exams required for the diploma. Students earning the Advanced Regents Diploma can also earn designation for Mastery in Mathematics and/or Science. This designation is earned by scoring 85 or higher on three Regents Exams in Mathematics and/or Science.

Course Selection

Selection of courses requires careful decision-making and collaboration between students, parents, counselors, and teachers. Please note that the availability of offerings is contingent upon enrollment guidelines established by the Superintendent of Schools. If a class is undersubscribed, contingent upon the respective course, the principal has the authority to recommend to the Superintendent that the course be combined with another or not be offered. Additionally, consideration of staffing, program, and resource needs of the district may result in the cancellation of a course(s) included in this course description guide, regardless of student interest.

Information provided to the Superintendent through district task forces and curriculum committees may result in adjustments to the program and delivery system as described in this course description guide.

As per Board Policy #4430, students will be scheduled into the following units of study or credit as minimum requirements:

- Grades 9, 10, and 11: 7.5 credits or units of study and lunch
- Grade 12: 6.0 credits or units of study and lunch

A late start option is available for seniors if they are not scheduled for a class first period.

An enrolled full-time student must include a scheduled lunch period each year of his/her high school studies. In addition, any student in grades 9-11 not scheduled in structured class time will be assigned to an Academic Resource Center where attendance will be taken. Students and parents will be able to enter their initial course selections into Infinite Campus using the registration portal.

All students are expected to remain enrolled in all courses requested the previous year. All course selection changes must be completed before June 1st of the upcoming school year unless there is an error, the student is inappropriately placed, the student passes a summer school course or if a committee determines that a level change is necessary. It is recognized that at times there are extenuating circumstances that may necessitate a course change or drop. The following protocol will be used when needed:

1. If a student drops a full-year class after the 1st quarter, the report card will show "WF" (Withdraw Fail) or "WP" (Withdraw Pass) for the quarter and final grade.
2. If a student drops a half-year class during the 2nd or 4th quarter, the report card will show "WF" (Withdraw Fail) or "WP" (Withdraw Pass) for the quarter and final grade.
3. If a student changes levels, i.e. Honors to Regents, current grades will follow the student to the next class.
4. If a student does not meet the attendance requirement, the report card will show "CD" (Credit Denied) as the quarter and final grade.

Course Selection Throughout High School

As students move through high school, they are afforded more options in course selection. The courses listed on a student's transcript are a reflection of the rigor of that student's high school program. As such, course choices are an important part of the college application process.

Senior year courses in progress are also included on all transcripts. In fact, senior year when students seemingly have the most freedom in their course selection, is a year that colleges examine very closely. The strength of a student's program is an indicator of the level of work that the student will be ready for in college.

Remember that colleges look for at least four years in each of the five core academic areas (English, Social Studies, Math, Science, and World Language). Refer to the table below, which illustrates the "20 Boxes" students should aim to fill in order to satisfy graduation requirements and appear competitive to colleges.

	9th	10th	11th	12th
English	Honors English 9			
Social Studies	AP World I			
Math	Honors Geometry			
Science	Living Environ.			
World Language	Spanish 2			

A transcript lists every high school credit course a student has taken. A sample of a Hauppauge High School transcript is included below. The cumulative GPA is the sum of all grades (including failing grades), with the exception of physical education, divided by the total number of credits attempted. The total number of credits attempted is the sum of all course credits in which a numerical final grade was earned.

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Advanced Placement

Advanced Placement (AP) is a program run by the College Board, the makers of the SAT. AP courses are offered during high school and provide students the opportunity to earn college credit and qualify for advanced standing in college. Most importantly, taking AP courses is a way students can add rigor to their transcripts, which is extremely important in the college admissions process.

All AP courses end with AP exams. These are official exams, written by the College Board, designed to test a student's knowledge of the content learned in an AP course. AP exams are administered each year in May across the nation and around the world. AP exams are scored on a scale of 1 - 5, with 5 being the highest score. Colleges award credit to students based on their AP exam scores and each college has its own score policies. For example, some colleges will award credit for a score of 3 or higher, while others only award credit for scores of 4 or 5.

Hauppauge High School offers 15 AP courses available to students in grades 10 through 12 in the areas of English, Social Studies, Mathematics, Science, and Fine/Performing Arts.

English

- AP Language & Composition
- AP Literature & Composition

Social Studies

- AP World History
- AP United States History
- AP U.S. Government & Politics
- AP Microeconomics*



*pending Board of Education approval

Mathematics

- AP Calculus AB
- AP Calculus BC
- AP Statistics

Science

- AP Biology
- AP Chemistry
- AP Physics I
- AP Physics C

Fine and Performing Arts

- AP Studio in Art
- AP Music Theory

Advanced Placement Scholar Awards

College Board recognizes high school students who have demonstrated outstanding achievement through their performance on AP exams. The criteria for the various AP Scholars Awards are outlined below.

Award	Criteria
AP Scholar	Granted to students who receive scores of 3 or higher on three or more AP Exams.
AP Scholar with Honor	Granted to students who receive an average score of at least 3.25 on all AP Exams taken, and scores of 3 or higher on four or more of these exams.
AP Scholars with Distinction	Granted to students who receive an average score of at least 3.5 on all AP Exams taken, and scores of 3 or higher on five or more of these exams.
National AP Scholar	Granted to students in the United States who receive an average score of at least 4 on all AP Exams taken, and scores of 4 or higher on eight or more of these exams.

International Baccalaureate Program



IB classes follow a curriculum mandated by the International Baccalaureate Organization (IB). Courses include papers and IB exams graded by Hauppauge High School teachers (known as internal assessments) and papers and IB exams graded by IB external assessors. IB final exams are given in May and are graded on a 1 to 7 scale, with 7 being the highest. Colleges award credit to students based on their IB exam scores and each college has its own score policies. For example, some colleges will award credit for a score of 4 or higher, while others only award credit for scores of 6 or 7.

Students can take individual IB classes and earn a certificate of completion for each class (with a score of 4 or higher) or can be IB diploma students, which is a 2-year program for juniors and seniors. Students who decide to pursue an IB diploma must complete a specific set of courses, the Theory of Knowledge course, a 4,000 word Extended Essay, and 150 hours of creativity, action, and service hours.

Courses are either standard level (one or two years of study, followed by the IB exam) or higher level (two years of study, followed by the IB exam). IB diploma students must take at least 3 higher level courses (a student takes either a standard level or higher level course and exam in a subject, but not both). Students must earn at least 24 points (based on exam scores of 1 to 7 and the extended essay) to receive an IB diploma.

IB DIPLOMA REQUIREMENTS

One IB course from each of the following areas:

English
Mathematics
Social Studies
Science
World Language

One additional course in:

The Arts
or
One additional IB course in the five content areas

Theory of Knowledge (TOK)

Alternating day course that connects all IB content areas with focus on critical thinking and application of knowledge

Extended Essay (EE)

In-depth independent research on a focused IB course topic of student's choice; 4,000 word essay (10-15 pages) completed during a 2-year period

Creativity, Action, Service (CAS)

A range of activities accompanied by a project in an area of choice, such as the arts, sports, or community service

Six IB courses during grades 11 & 12
Students choose:

- 3 HL and 3 SL
- 4 HL and 2 SL

International Baccalaureate Program

Hauppauge High School offers IB courses to students in grades 11 and 12 in the areas of English, Social Studies, Mathematics, Science, World Language, Business, and Fine/Performing Arts.

English

- IB Language HL I & II

Social Studies

- IB History HL I & II
- IB Theory of Knowledge

Mathematics

- IB Mathematics SL
- IB Mathematics Studies SL

Science

- IB Physics HL I & II
- Environmental Systems & Soc. SL
- IB Design Technology SL
- IB Computer Science SL

World Languages

- IB French SL I & II
- IB French HL I & II
- IB German SL I & II
- IB German HL I
- IB Spanish SL I & II
- IB Spanish HL I & II

Business

- IB Business HL I & II

Fine and Performing Arts

- IB Film SL I & II
- IB Film HL I & II
- IB Visual Arts SL I & II
- IB Visual Arts HL I & II
- IB Music HL I & II
- IB Theater SL I & II
- IB Theater HL I & II



AP? IB? Both?



Both AP and IB are very rigorous courses that colleges like to see on high school transcripts. They are the most rigorous courses that Hauppauge High School offers and are excellent preparation for college.

At Hauppauge High School, any student can take an AP or IB course as long as he or she has met any prerequisites for that course and feels capable of the level of academic performance required for these college-level courses. Students do not have to test into the IB Diploma Program or AP courses at Hauppauge High School.

Whether to take all or some AP courses, be an IB diploma student, be an IB certificate student, or take a mixture of AP and IB courses needs to be a matter of student preference, interest, and learning style. The experience of the IB Theory of Knowledge class and the guided research class for Extended Essay are unduplicated in AP.

The IB diploma program is comprehensive, but fairly inflexible. The AP program and IB certificate program are more flexible, allowing a student to take AP or IB courses in the subjects which interest them.

It is possible to take an IB course in some subject areas and take (and do well on) the AP exam in the same subject area (IB teachers will help students decide if they should take the AP exam for a particular subject). However, students who have not taken an IB course may not take an IB exam. Review books for AP exams are commercially available; there are no commercially available IB exam review books.

Colleges generally recognize AP and IB courses as being comparable. The extent to which colleges will give credit or placement varies among colleges, but generally if a college accepts AP scores (usually a score of at least 3), then they also accept IB scores (usually a score of at least 5). For example, if a college will give credit for a score of 4 on an AP exam, it will also give credit for a score of a 6 on an IB exam. Some colleges give credit for certain scores on AP or IB exams; others will allow students to place out of lower level classes, but will not give credit. Colleges are typically more likely to give credit for higher level IB courses than for standard level.

College Courses

In addition to AP and IB courses, Hauppauge High School offers a number of concurrent college credit courses. With the appropriate background, a student could potentially enroll in an equivalent number of credits to a freshman-year college program while completing the senior year in high school. It is necessary to pay a registration fee to the specific college for each college course taken for college credit, but this cost is considerably less than a student would experience on the college campus. Students will then receive two grades - a final numeric high school grade which appears on the high school transcript and a college grade on a transcript from a host college. Although students' experiences in transferring these credits have generally been successful, there is no guarantee that they will be accepted. Students are advised to check with individual colleges regarding transferability. In any event, however, it should be recognized that the main value of this program is the early exposure to college-level work which enables a student to pretest his/her aptitude and interest levels. None of the college courses may be taken as independent study. College courses taken for college credit through the respective college may not be taken pass/fail.

Pass/Fail Option

Students may opt to take selected elective-level courses on a pass/fail credit basis during the school year under the following conditions:

- *The course cannot be specifically required for graduation.*
- No more than one subject at a time, with a maximum of three courses during one's high school career, can be elected on a pass/fail option without special permission of the principal.
- Students who choose the Pass/Fail option before the 5th week of the course will have a grade of "P" or "F" appear on the first quarterly report card. A numeric grade will appear on the first quarterly report card if the decision to take the Pass/Fail option is made after the 5th and before the 12th week of the course. All subsequent quarters will be graded with a Pass or Fail.
- Classes taken pass/fail are **NOT** averaged into the overall G.P.A.

Students electing the Pass/Fail option will be required to do all the work required as normal standards of the course. School counselors will be involved in explaining the consequences of the choice to individual students and their parents. Parents must give approval for the specific election of a pass/fail course.

Independent Study

Independent study may be coordinated with a school counselor with the approval of department supervisors and the principal. Forms are available in the counseling center and prior approval is required. Courses completed at Hauppauge High School under the conditions specified on an independent study contract basis are included in the class-rank process. Please note that an independent study will not be approved for a course that exists and can be placed in a student's schedule.

Summer School

In order for a student to be eligible to take a course in summer school, they must maintain seat time in the course during the school year. Students must maintain a minimum seat time requirement of 75% to be eligible for summer school.

Early Graduation

Hauppauge High School offers students two plans for an early graduation program. One permits students to take the courses necessary for them to graduate after three and one-half (3 1/2) years of study while the second allows students to meet their graduation requirements in three (3) years. Any student interested in early graduation must make specific contractual arrangements with his/her counselor prior to the end of the school year. All students seeking to graduate a year early must meet with the principal to discuss their post-high school plans and obtain approval.

Class Rank

A weighted GPA is used to determine class rank and is calculated in September of each year beginning with the sophomore year. Seniors must have 15 credits in order to be included in the senior ranking.

Class rank is based on all credit bearing courses resulting in numerical final grades. Approved independent study courses receiving a numerical final grade will be included. Physical Education and Pass/Fail final grades will not be included.

In order to calculate a weighted GPA, all numerical final grades are assigned a quality point value based on the credit value and the level of the course. The quality points are added starting with credit bearing courses taken in grade 8. The quality point total value is then divided by the total number of credits assigned quality points. The resulting weighted GPA's are placed in numerical order to indicate class rank. Any student with a weighted GPA of 80.00 or above will have their rank reported numerically. The remainder of the students will be ranked using percentiles.

Students that have earned the same total quality points rounded to the thousandths place will share the same numerical position in class rank.

Students transferring from another accredited high school will have their rank calculated using their transfer credits as long as all grades and credits have been submitted to the guidance office on an official transcript.

COURSE LEVELS AS OF 2012-13

LEVEL VI: ADVANCED PLACEMENT/INTERNATIONAL BACCALAUREATE

This level includes all AP and IB courses including Theory of Knowledge.

LEVEL V: COLLEGE/ADVANCED

This level includes college courses, 5th year courses (i.e. Spanish 5, French 5, and German 5), Honors Introductory Calculus, Honors Spanish 4, Honors French 4, and Honors German 4.

LEVEL IV: HONORS

This level includes honors courses with the exception of the courses listed above.

LEVEL III: REGENTS/ELECTIVES

This level includes credit bearing courses that are not designated at a higher level.

National Collegiate Athletic Association

If you wish to participate in National Collegiate Athletic Association (NCAA) Division I or II athletics, you need to be certified by the NCAA Eligibility Center. **Please note that NCAA eligibility requirements for the class of 2016 and thereafter have changed significantly.** You need to qualify academically and you will also need to be cleared as an amateur student-athlete.

***** You are responsible for achieving and protecting your eligibility status! *****

Grade 9

- See Mr. Foster in the Counseling Center to create a corecoursegpa.com account.
- Verify with your Counselor and the online core-course listing to make sure you are on track. See page 20 for a list of Hauppauge High School's NCAA-approved courses.

Grade 10

- Pick up NCAA requirements packet from Mr. Foster.
- Verify with your Counselor and the online core-course listing to make sure you are on track. See page 20 for a list of Hauppauge High School's NCAA-approved courses.

Grade 11

- Register at the beginning of your junior year at www.eligibilitycenter.org.
- Check with your Counselor to make sure you are on track to graduate and have the required amount of core courses.
- Ask your Counselor to send a copy of your transcript to the NCAA Eligibility Center. If you have attended any other high schools, make sure a transcript is sent to the eligibility center from each high school.
- Take the ACT or SAT and use the code "9999" to have your official scores sent directly to the NCAA Eligibility Center.
- Begin your amateurism questionnaire.

Grade 12

- Check with your Counselor to make sure you are on track to graduate on time with your class and have the required amount of core courses.
- Take the ACT or SAT and use the code "9999" to have your official scores sent directly to the NCAA Eligibility Center.
- Complete amateurism questionnaire and sign the final authorization signature online on or after April 1st if you are expecting to enroll in college in the fall semester. (If you are expecting to enroll for spring semester, sign the final authorization signature on or after October 1st of the year prior to enrollment.)
- Have your Counselor send a final transcript to the NCAA Eligibility Center.

NCAA Eligibility Center

Customer Service - 877-262-1492 (Mon-Fri, 8 a.m. - 6 p.m.)

www.eligibilitycenter.org

NCAA-Approved Courses

Only courses approved by NCAA can count toward a student's core course requirements with NCAA. It is important to note that NCAA requirements and approved courses can change. Students considering playing sports at the college-level should speak with their counselor often and check www.eligibilitycenter.org for updated information.

ENGLISH

AP Language & Composition
AP Literature & Composition
College Freshman English
Creative Writing
English 9
English 10
English 11
English 12
Honors English 9
Honors English 10
IB Language & Literature HL I
IB Language & Literature HL II

MATHEMATICS

Algebra I
Algebra II
AP Calculus AB
AP Calculus BC
AP Statistics
College Calculus
Functions & Trigonometry
Geometry
Honors Algebra II
Honors Geometry
Honors Intro to Calculus
IB Math Studies
IB Mathematics
Precalculus
Statistics

SCIENCE

AP Biology
AP Chemistry
AP Physics C
AP Physics 1
Astronomy
Biology / Living Environment
Chemistry
Earth Science
Environmental Science
Honors Biology
Honors Chemistry
Honors Physics
IB Computer Science SL
IB Design Technology SL
IB Environmental Systems SL
IB Physics HL I
IB Physics HL II
Oceanography
Science Research

SOCIAL STUDIES

AP United States History
AP World History I
AP World History II
College Psychology
College Sociology
Criminal Justice
Economics & Personal Finance
Everyday Law
Global History I
Global History II
IB History HL I
IB History HL II
Participation in Government
U.S. History and Government

WORLD LANGUAGES

French 1
French 2
French 3
French 4
French 5
German 1
German 2
German 3
German 4
German 5
Honors French 2
Honors French 3
Honors French 4
Honors German 2
Honors German 3
Honors German 4
Honors Spanish 2
Honors Spanish 3
Honors Spanish 4
IB French SL I
IB French SL II
IB German SL I
IB German SL II
IB Spanish SL I
IB Spanish SL II
Spanish 1
Spanish 2
Spanish 3
Spanish 4
Spanish 5

Art and Video

Art

0701 STUDIO IN ART (Level 3)

FULL-YEAR / DAILY / 1.0 CREDIT

This foundation course is designed to introduce students to different disciplines in visual art. Students will have the opportunity to explore and work in a variety of media including drawing, painting, sculpture, and advertising. Art concepts, history, techniques and materials are also introduced. This is a required course for an Art Regents sequence and is highly desirable for students pursuing art-related careers. This course satisfies the graduation requirement in the Arts.

0702 STUDIO IN MEDIA (Level 3)

FULL-YEAR / DAILY / 1.0 CREDIT

This foundation course is an introduction to the creative use of media arts through cinema, video, and photography. Students will use Adobe Photoshop to explore graphic techniques and iMovie to create original videos. Students will be involved in script writing, storyboard preparation, and the production of original films. The class will also view and discuss films from the classics to the contemporary as a learning tool. This is a required course for a Media Sequence and satisfies the graduation requirement in the Arts.

0709 CARTOONING (Level 3)

HALF-YEAR / DAILY / 0.5 CREDIT

Recommended Criteria: Studio in Art

Students will develop their own original cartoon character while learning the process of creating a comic strip. Cartooning students will develop a character's story, personality, and expression in both single and sequential comic strips. Students will develop expertise in the use of tools related to cartooning.

0710 ADVANCED CARTOONING (Level 3)

HALF-YEAR / DAILY / 0.5 CREDIT

Prerequisite: Cartooning

This course will allow the student who has successfully completed cartooning to develop and emphasize advanced technique. Exercises will be designed to bring the students to a high level of competence in creativity and individual expression. Students will create their own children's book with original cartoons/illustrations. Students may use a variety of media such as watercolor, marker, and colored pencil.

0711 COMPUTER GRAPHICS (Level 3)**HALF-YEAR / DAILY / 0.5 CREDIT****Prerequisite: Studio in Art or Studio in Media**

This course stresses artistic expression using digital technology. Students will work with Adobe Photoshop and Adobe Illustrator software programs in the Computer Graphics lab..

0712 ADVANCED COMPUTER GRAPHICS (Level 3)**HALF-YEAR / DAILY / 0.5 CREDIT****Prerequisite: Computer Graphics**

This course is designed for the student who has successfully completed Computer Graphics and wishes to continue the exploration of this art form. Students will use Adobe Photoshop and Adobe Illustrator to manipulate existing and original graphic design. Students will also learn how to effectively incorporate digital photography into their work..

0704 DRAWING AND PAINTING (Level 3)**FULL-YEAR / DAILY / 1.0 CREDIT****Recommended Criteria: Studio in Art or by recommendation**

This is a year-long course that covers a variety of 2-dimensional experiences including use of graphite, charcoal, pastels, acrylic, ink, watercolor, collage/mixed media, and printmaking on a variety of different grounds/surfaces including paper and canvas. The curriculum will foster use of more advanced vocabulary, technical skills, and creative thought. Units will primarily focus on art making, but will also include discussions, reflection/critiques, and written assignments that will further address the elements and principles of design. Students will build on the skills that they developed in previous art courses and continue growing both technically and conceptually as artists.

0731 ADVANCED DRAWING AND PAINTING (Level 3)**FULL-YEAR / DAILY / 1.0 CREDIT****Prerequisite: Drawing and Painting**

This course will focus on the refinement of technical skills in the areas of drawing, painting, printmaking, and mixed media. Another major emphasis will be personal creative problem solving and independent work, allowing students to pursue aesthetic intent. To successfully complete this advanced course, students will be expected to understand and creatively use traditional art materials and processes, including pencil, charcoal, brush/pen and ink, pastel, color pencil, acrylic and watercolor. They will be expected to actively participate in group discussions and critiques, and demonstrate self-discipline and self-motivation in meeting deadlines.

0718 SCULPTURE (Level 3)**HALF-YEAR / DAILY / 0.5 CREDIT**

Students will explore additive and subtractive methods of sculpture in a variety of media including cardboard, paris craft, clay, sculpey, wire, and papier mache. Students will use their knowledge of the elements of art and principles of design to visualize three dimensional objects through sketching and let their sketch evolve into a completed three-dimensional construction. This course also will introduce students to the history of sculpture and notable sculptors.

0713 FASHION ILLUSTRATION (Level 3)**HALF-YEAR / DAILY / 0.5 CREDIT****Recommended Criteria: Studio in Art**

Students will develop fashion styles and learn techniques to transfer their ideas to paper. Students will use colored pencils, watercolor, and markers to create fashion illustrations on free-drawn figures or a croqui (figure template). Students will develop a personal illustration style to design their own thoughts and design ideas. Advanced drawing skills are not necessary.

0714 ADVANCED FASHION ILLUSTRATION (Level 3)**HALF-YEAR / DAILY / 0.5 CREDIT****Prerequisite: Fashion Illustration**

This course is for students who have successfully completed Fashion Illustration and wish to extend their skills in this medium. Students will refine their knowledge of anatomy and proportion, students will learn how to use props and perspective to communicate a particular style or look. Discover the techniques for creating a fashion illustration suitable for an advertisement and how to render the color, texture, and patterns of wool, tweed, silk, leather and other popular fabrics. Students will learn how to create a portfolio and prepare for a future career in the world of fashion.

0715 INTERIOR DESIGN (Level 3) OFFERED 2017-2018**HALF-YEAR / DAILY / 0.5 CREDIT**

In Interior Design, students will assume the role of interior designer/decorator. Students will learn the essential elements and principles of design. Architectural styles, type of dwelling, lifestyles and recent decorating trends will be highlighted. Students will be able to design a room for their final project. Drawing skills are not a prerequisite. Students may draw, collage, paint, or use furniture templates to express design concepts.

0726 DIGITAL PHOTOGRAPHY (Level 3)**HALF-YEAR / DAILY / 0.5 CREDIT****0726A DIGITAL PHOTOGRAPHY 2X (Level 3)****FULL-YEAR / ALTERNATING DAYS / 0.5 CREDIT**

This course will explore the art of digital photography. Students will learn the basics of using a digital camera including their features, benefits, and differences from traditional photography. Photography techniques such as how to frame an image, exposure and lighting conditions, focus, zoom, and printing will be explored in detail. Students will also learn how to edit and enhance digital images using Adobe Photoshop and software applications designed specifically for digital photography.

0727 ADVANCED DIGITAL PHOTOGRAPHY (Level 3)**HALF-YEAR / DAILY / 0.5 CREDIT****Prerequisite: Digital Photography**

Students will continue to develop their artistic expression through digital photography. Advanced techniques and procedures in digital imagery will be explored as well as the art of collage and montage. The class will challenge students' creative abilities as well as their technical knowledge.

0719 CREATIVE CRAFTS (Level 3)**HALF-YEAR / DAILY / 0.5 CREDIT****0719A CREATIVE CRAFTS 2X (Level 3)****FULL-YEAR / ALTERNATING DAYS / 0.5 CREDIT**

Creative Crafts will expose students to various processes, techniques, and methods related to historical crafts. Topics such as ,mixed media weaving, metal embossing, marbling and book binding, shibori silk dyeing, batik textile design, dichroic glass fusion, & assemblage of found objects (objets trouv  ) will be covered. Students will not only explore art history as it relates to various crafts and cultures, but will also learn the processes used to create different crafts.

Cultures and art from past and present will be explored giving students the opportunity to reflect and create a group of original artwork. Application of the principles of design through utilization of a variety of media will be the basis for projects.

0760 IB VISUAL ARTS HL I (Level 6)**0762 IB VISUAL ARTS HL II (Level 6)****GRADES 11 AND 12****2 FULL-YEARS / DAILY / 2.0 CREDITS**

IB Visual Arts is a two-year course of study for the serious art student. This HL class is offered for those highly motivated art students who are creative in both visual and written expression. Students will work in a variety of media and techniques throughout the course. Cultures and art from past and present will be explored giving students the opportunity to reflect and create a group of original artwork. This exposure will provide students with a well-rounded understanding of the similarities and differences in societies around the world. Students are required to choose one of two options for the final assessment in the second year. Option A: 60% studio work (practical exploration and artistic production) and 40% research workbook (independent critical research and analysis, visual and written in more than one culture) or Option B: 60% research workbook and 40% studio work. Students will be responsible for the final exhibition, photographing and photocopying of all required work.

0765 IB VISUAL ARTS SL I (Level 6)**0766 IB VISUAL ARTS SL II (Level 6)****GRADES 11 AND 12****2 FULL-YEARS / DAILY / 2.0 CREDITS**

IB Visual Arts SL is a two-year course of study. The class is offered to both beginner or experienced art students who are creative in both visual and written expression. Students will work in a variety of media and techniques throughout the course. The art of cultures past and present will be explored giving students the opportunity to reflect and create a series of original works of art. This exposure to varying cultures will provide students with a well-rounded understanding of the similarities and differences in societies from around the world. Students are required to choose one of two options for the final assessment in their second year. Option A: 60% studio work (practical exploration and artistic production) and 40% research workbook (independent critical research and analysis, visual and written in more than one culture) or Option B: 60% research workbook and 40% studio work. Students will be responsible for a final exhibition, photographing and reproductions of all work.

0703 ADVANCED PLACEMENT STUDIO IN ART (Level 6)**FULL-YEAR / DAILY / 1.0 CREDIT****Recommended Criteria: Drawing & Painting**

This course is designed for the highly motivated senior interested in the serious study of art. College and career opportunities for the art major will be explored. Students in this class will prepare a portfolio for college and vocational interviews. For successful completion of this course, students will be required to prepare and submit a portfolio to the College Board for evaluation at the end of the school year. The Advanced Placement portfolio will be evaluated by college, university, and secondary school art instructors using rigorous standards. Portfolios will be graded in three areas: quality, concentration, and breadth. A successful review of a student's Advanced Placement portfolio will enable the student to earn college credit.

Video

0722 TELEVISION PRODUCTION/VISUAL COMMUNICATIONS I (Level 3)**HALF-YEAR / DAILY / 0.5 CREDIT****0722A TELEVISION PRODUCTION / VISUAL COMMUNICATIONS I 2X (Level 3)****FULL-YEAR / ALTERNATING DAYS / 0.5 CREDIT**

This course gives students a practical introduction to the fundamentals of television/video production. Course content will include videotaping, script writing, analog and digital camera operations, lighting, audio techniques, studio camera switching, staging, directing and digital editing. Students will learn to apply the elements and principles of design and movement using video cameras, editing, and taping machinery and computers. Projects will include creating music videos, commercials, documentaries, conducting interviews and producing a television program. Still clips will be incorporated as well as "how to" demonstrations and "table top" animation. Through analysis, viewing and critiquing tapes, students will observe techniques of master technicians. This course satisfies 0.5 credit toward a Media Arts sequence.

0723 TELEVISION PRODUCTION/VISUAL COMMUNICATIONS II (Level 3)**HALF-YEAR / DAILY / 0.5 CREDIT****0723A TELEVISION PRODUCTION/VISUAL COMMUNICATIONS II 2X (Level 3)****FULL-YEAR / ALTERNATING DAYS / 0.5 CREDIT****Prerequisite: Minimum average 80 or above in Television Production/Visual Communications I**

This course gives students an opportunity to experience the field of television/video production. Students will learn techniques of video editing and directing short studio and field productions. Emphasis will be placed on preproduction, production and postproduction activities.. This course satisfies 0.5 credit toward a Media Arts sequence.

0725 [TELEVISION BROADCAST](#) (Level 3)

FULL-YEAR / DAILY / 1.0 CREDIT

Prerequisite: Students are selected by application and interview. Minimum average of 90 percent in Television Production/Visual Communications I and II Broadcasting students produce our news program “Eagle Watch.” Students take on the roles of producers, reporters, camera operators and produce short news packages. The news program can be viewed through the district website on our Eagle Watch YouTube channel.



0759 IB FILM HL I (Level 6)

0761 IB FILM HL II (Level 6)

GRADES 11 AND 12

2 FULL-YEARS / DAILY / 2.0 CREDITS

Recommended Criteria: Television Production/Visual Communications I

IB Film HL is a two-year course of study that develops students’ skills in film analysis as well as film production and leads students to understand film as both a universal form of communication and a visual arts medium. IB Film offers opportunities for students to develop their 21st Century skills of creativity, collaboration, research, critical thinking, problem solving and cultural understanding and will enable students to become proficient in both interpreting and making film texts. Students will study film history and analyze, interpret and participate in the entire process of conceptualizing, innovating, and producing their own films. Students will collaborate with others within an international community and reflect on their individual contributions. External IB assessments include a presentation and an independent study of four films in addition to a rationale, script and annotated list of sources for the study. Internal IB assessments include a production portfolio and completed film project.

0763 IB FILM SL I (Level 6)

0764 IB FILM SL II (Level 6)

GRADES 11 AND 12

2 FULL-YEARS / DAILY / 2.0 CREDITS

IB Film SL is a two-year course of study that develops students’ skills in film analysis as well as film production and leads students to understand film as both a universal form of communication and a visual arts medium. IB Film offers opportunities for students to develop their 21st Century skills in creativity, collaboration, research, critical thinking, problem solving, cultural understanding and will enable students to become proficient in both interpreting and making film texts. Students will study film history and analyze, interpret, and participate in the entire process of conceptualizing, innovating and producing their own films. Students will collaborate with one another on various production projects and reflect on their individual contributions. External IB assessments at the SL level include a 10-minute presentation on a detailed analysis of a film extract from a prescribed film and a research paper which is an independent study of four films in the form of a documentary script (8-10 pages). Students will also produce a 4-5 minute film.

Business Education

0601 CAREER & FINANCIAL MANAGEMENT (Level 3)

FULL-YEAR / DAILY / 1.0 CREDIT

This is an introductory course in which students will begin to plan their futures through research and exploration activities. Units will help students determine career choices, resume writing, interviewing skills, banking, budgeting, insurance, time management and credit. Students will also about the roles of business owner, worker, consumer, and community member. Requirements include a Career Research Project and Banking Project. The course emphasizes the skills needed to succeed in business, as well as life skills. This course is required for a five-credit business/technology sequence.

0602 COLLEGE ACCOUNTING (Level 5)

GRADES 11 AND 12: SUNY FARMINGDALE: 3.0 COLLEGE CREDITS

FULL-YEAR / DAILY / 1.0 CREDIT

This is a full-year course recommended for students planning to pursue business at the postsecondary level, as well as preparing for an entry-level position in the business world. Emphasis is placed on further developing competencies in the area of Accounting Principles and Procedures. Students are provided with a better understanding of the environment in which accounting information is developed and used; shifting emphasis from the preparation of accounting information to its interpretation and use. A wide variety of problem solving material is used to challenge students' analytical abilities. Students have an opportunity to earn three college credits through SUNY Farmingdale in addition to high school credit.

0626 COLLEGE BUSINESS LAW (Level 5)

GRADES 11 AND 12: SUNY FARMINGDALE: 3.0 COLLEGE CREDITS

FULL-YEAR / DAILY / 1.0 CREDIT

This course is designed for students who are planning a career in law, business management or accounting, as well as students who want to gain knowledge of law for personal use. An introduction to the nature and sources of law, the role of the legal system, the law of torts and crimes, the laws of contracts and real and personal property are some of the topics that will be covered in this college course. This course may be used as the fifth unit of credit in a social studies sequence. Students have an opportunity to earn three college credits through SUNY Farmingdale in addition to high school credit.

0603 COLLEGE MARKETING (Level 5)**GRADES 11 AND 12: SUNY FARMINGDALE: 3.0 COLLEGE CREDITS****FULL-YEAR / DAILY / 1.0 CREDIT**

In this class, students will learn how a simple idea may turn into the next must-have product. The course focuses on the process of creating, promoting and selling goods and services. Within the scope of the course, students will learn how and why companies and stores, such as Apple and Hollister, target various consumers of their goods. Students will develop marketing strategies that can be used for existing and new products. Current events, trends and case studies will be integrated and evaluated throughout the classroom discussions. Guest speakers and hands-on projects are also a part of this exciting course. The course will culminate with the creation of a marketing plan and presentation for a product or service. This course is also the foundation course for our school's award-winning DECA chapter, a co-curricular national marketing association. Students can elect to earn three college credits from SUNY Farmingdale in addition to HS credit.

0604 COLLEGE SPORTS & ENTERTAINMENT MARKETING (Level 5)**GRADES 11 AND 12: SUNY FARMINGDALE: 3.0 COLLEGE CREDITS****FULL-YEAR / DAILY / 1.0 CREDIT**

Students will learn marketing and management principles as they apply to the Sports & Entertainment Marketing fields. This course provides students with the basic principles of the marketing process. In addition to traditional classroom teaching, a variety of projects and activities that are rooted in cooperative learning will be implemented. This course will feature a variety of computer simulations and internet-based research projects that place students in roles such as team owner, event manager, agent, general manager, media specialist, copywriter, illustrator, sports information director and public/community relations director. Students have an opportunity to earn three college credits through SUNY Farmingdale in addition to high school credit.

0605 ACCOUNTING (Level 3)**FULL-YEAR / DAILY / 1.0 CREDIT**

A course designed to cover the complete Accounting Cycle (Journalize, Post, Preparation and Interpretation of Financial Statements) through the use of a variety of exercises and a final practice set. The final outcome is to provide entry-level skills for those students planning to enter the job market after high school. This course is essential for, but not limited to, all students who intend to major in business on the college level. All business majors are required to complete an accounting course as a requirement of their college curriculum. Everyone who engages in economic activity will benefit from understanding the nature, significance and limitations of accounting information.

0627 COLLEGE E-COMMERCE / ENTREPRENEURSHIP / BUSINESS LAW (Level 5)
GRADES 11 AND 12: SUNY FARMINGDALE: 3.0 COLLEGE CREDITS
FULL-YEAR / DAILY / 1.0 CREDIT

This course is designed for students who are planning a career in small business management and provides both theory and practical application of the small business principles necessary for the creation and operation of a successful small business. Course content will provide an introduction to the nature and sources of law, the role of the legal system, the laws of contracts and business related law. Additionally the course will examine small business sales, finance, personnel and the concepts and current practices of managing a small business. Combining this knowledge, students will learn about success stories of e-commerce businesses models. The students will re-examine fundamental processes of business as it is performed in cyberspace in contrast to the “brick & mortar” market place. This course covers standards, technologies and practices for both business to business and business to consumer e-commerce models. Students have an opportunity to earn 3.0 college credits through SUNY Farmingdale in addition to high school credit.

0627A COLLEGE E-COMMERCE/ ENTREPRENEURSHIP (Level 5)
GRADES 11 AND 12: SUNY FARMINGDALE: 3.0 COLLEGE CREDITS
FULL-YEAR / ALTERNATING DAYS / 0.5 CREDIT

This course is designed for students who are planning a career in small business management and provides both theory and practical application of the small business principles necessary for the creation and operation of a successful small business. Additionally the course will examine small business sales, finance, personnel and the concepts and current practices of managing a small business. Combining this knowledge, students will learn about success stories of e-commerce businesses models. The students will re-examine fundamental processes of business as it is performed in cyberspace in contrast to the “brick & mortar” market place. This course covers standards, technologies and practices for both business to business and business to consumer e-commerce models. Students have an opportunity to earn 3.0 college credits through SUNY Farmingdale in addition to high school credit.

0628 IB BUSINESS MANAGEMENT SL (Level 6)
GRADES 11 AND 12
FULL-YEAR / DAILY / 1.0 CREDIT

Recommended Criteria: students will participate in DECA, the student-run business club at Hauppauge High School

The IB Business Management course features topics in accounting, business law, marketing, communications, project management, international business and information systems. It will provide students the opportunity to gain functional knowledge in the areas necessary to become effective managers. Students will enhance their understanding of what is required to solve problems, manage resources and oversee staff on a day-to-day basis. Students will also examine a variety of organizations and develop an understanding of how they function. In addition to reading and writing assignments and oral presentations, there are also two written examination papers externally assessed by IB as well as a written assignment (1000-1500 words) internally assessed by the teacher and moderated by IB.

0629 IB BUSINESS MANAGEMENT HL (Level 6)**GRADES 11 AND 12****2 FULL-YEARS / DAILY / 2.0 CREDITS****Recommended Criteria: students will participate in DECA, the student-run business club at Hauppauge High School**

The IB Business Management course features topics in accounting, business law, marketing, communications, project management, international business and information systems. It will provide students the opportunity to gain functional knowledge in the areas necessary to become effective managers. Students will enhance their understanding of what is required to solve problems, manage resources and oversee staff on a day-to-day basis. Students will also examine a variety of organizations and develop an understanding of how they function. Additional topics include: organizational planning tools, organizational (corporate) culture, industrial/employee relations, financial accounts, efficiency ratio analysis, investment appraisals, budgets, the extended marketing mix of the seven Ps, international marketing, lean production and quality management, production planning, research and development, crisis management and contingency planning. In addition to reading and writing assignments and oral presentations, there are also two written examination papers externally assessed by IB as well as a written assignment (1000-1500 words) internally assessed by the teacher and moderated by IB.

0615 WALL STREET & BEYOND (Level 3)**HALF-YEAR / DAILY / 0.5 CREDIT****0615A WALL STREET & BEYOND 2X (Level 3)****FULL-YEAR / ALTERNATING DAYS / 0.5 CREDIT**

This course focuses on financial concepts such as developing a financial plan, consumer purchasing strategies, consumer credit and investing. In today's financial market, the individual has a multitude of investment options. Stocks, bonds, banking services, insurance, collectibles, real estate, commodities and options are just a few of the investment opportunities to be studied. This is an excellent course for those students interested in learning how to plan their financial future. Students planning to study Business Administration, Business Management, Finance or Accounting will find this course useful.

0624 FASHION MARKETING (Level 3)**HALF-YEAR / DAILY / 0.5 CREDIT**

Fashion Marketing introduces the strategies used to develop, distribute and showcase today's fashion. By studying these factors, students will discover how consumer tastes and designer influences create fashion trends around the world. Students will learn demographic and psychographic information pertaining to consumer behavior and how it relates to the marketing of fashion. This course provides students with the opportunity to research the reasons for major changes in the fashion industry over the last 150 years as a background to understanding today's industry.

0625 FASHION APPAREL AND ACCESSORIES (Level 3)**HALF-YEAR / DAILY / 0.5 CREDIT**

Fashion Apparel and Accessories will introduce students to the apparel and accessories in the world of fashion design and merchandising. Students will study the manufacturing materials used and the evolution of apparel through the history of costumes. Student will become familiar with the buying, merchandising and marketing of all accessory classifications. These include handbags, shoes, jewelry, gloves, neckwear, belts, millinery and cosmetics. Students will become versed with designers, accessory terminology and will explore the various stages of display development.

0612 CODING I: INTRO TO WEB DEVELOPMENT (Level 3)**HALF-YEAR / DAILY / 0.5 CREDIT****0612A CODING I: INTRO TO WEB DEVELOPMENT 2X (Level 3)****FULL-YEAR / ALTERNATING DAYS / 0.5 CREDIT**

This half-year class is designed to teach the fundamentals of web page design and development. Students will learn web development techniques using HTML, DHTML and CSS. The course will cover topics such as basic design, thoughtful typography, color interactions, solid grids and layout. Students will research their target audience and conceive and design their own site. Students will also learn how publish a website once it is complete.

0613 CODING II: ADVANCED WEB DEVELOPMENT (Level 3)**HALF-YEAR / DAILY / 0.5 CREDIT****0613A CODING II: ADVANCED WEB DEVELOPMENT 2X (Level 3)****FULL-YEAR / ALTERNATING DAYS / 0.5 CREDIT****Prerequisite: Coding I: Intro to Web Development**

Students will use various software packages to create websites and apps utilizing Python, DHTML, JavaScript and CSS. This course is for students who have successfully completed Coding I: Intro to Web Development and want to expand their knowledge of web page design and coding to create more dynamic, graphic-based websites and apps. Students will create and edit graphics, optimize images, create animations, animate images and create forms for local businesses to demonstrate realism.

0630 INTRODUCTION TO COMPUTER APPLICATIONS (Level 3)**HALF-YEAR / DAILY / 0.5 CREDIT**

This course will introduce basic keyboarding skills in addition to the beginner level of Microsoft Office and Google Applications. Students will be introduced to the beginning level of Microsoft Word, Power Point, and Excel as well as Google Documents, Slides, and Sheets. This course will prepare students for success in other high school courses.

0631 COMPUTER APPLICATIONS I (Level 3)

HALF-YEAR / DAILY / 0.5 CREDIT

0631A COMPUTER APPLICATIONS I 2X (Level 3)

FULL-YEAR / ALTERNATING DAYS / 0.5 CREDIT

This course will introduce Microsoft and Google computer applications to students. In this course, students will learn basic and intermediate features of Microsoft Word, Excel, Access, and PowerPoint and Google Applications including Documents, Slides, and Sheets. This course will prepare students for success in other high school classes, college, and future careers.

0632 COMPUTER APPLICATIONS II (Level 3)

HALF-YEAR / DAILY / 0.5 CREDIT

0632A COMPUTER APPLICATIONS II 2X (Level 3)

FULL-YEAR / ALTERNATING DAYS / 0.5 CREDIT

This course is designed for students for proficient and expert-level use of Microsoft Office and Google Applications. Students will learn how to use advanced level features of Microsoft Word, Excel, Access and PowerPoint as well as Google Slides, Sheets, and Forms. The course will prepare students for success in other high school classes, college and future careers.

0622 GENERAL EDUCATION WORK EXPERIENCE PROGRAM (GEWEP) (Level 3)

GRADES 11 AND 12

HALF-YEAR / ALTERNATING DAYS / CREDIT VARIOUS WITH WORK HOURS

Earn and Learn. Begin to plan your career research and exploration activities. In this course you will create a career plan to lay the foundation for sound career decision making. First, you will explore “who you are” and then determine what careers are best suited for you. Class activities will include self-assessment, researching careers and identifying opportunities post high school to get you on your way down the career path. In addition to our classroom activities, this course grants high school credit for working at an approved part-time job. You will receive 0.5 credit for every 150 hours worked during the school year. Qualifying students will have the opportunity for early dismissal in order to pursue employment.

Please note: Enrollment in the work experience program does not grant students permission to drive to school. Only seniors and juniors enrolled in a work experience program that possess Class D licenses will be permitted to drive to and from school through the Security Office. Regular meetings with the Work Experience Coordinator are required to discuss job experiences as well as provide an updated total of hours worked. A reflection paper is due at the end of the student’s final semester in the program. Requirements: Employment must adhere to state and federal tax laws (the job must be “on the books”) and students must provide their own transportation to their place of employment.

CAREER EXPLORATION INTERNSHIP PROGRAM (CEIP) ***HALF-YEAR / ALTERNATING DAYS / CREDIT VARIOUS WITH WORK HOURS**

The internship program is designed to help students become college and career ready. This program is intended to add real-life experience in a field that you are studying in school and are looking to pursue beyond high school. When you enroll in this program you will be matched up with an employer that will provide you the opportunity to see and experience firsthand the work-environment and tasks related to the field of your choice. All internships are non-paid.

Students, through the guidance of the Work Based Learning Coordinator and employer, must create a student plan and maintain a daily journal of the internship experiences. Students may not be enrolled in the GEWEP program simultaneously. Students must arrange for their own transportation.

Career and Technical Education

Students requesting vocational training may apply to attend a Career and Technical program offered at the Academy of Applied Technology of Eastern Long Island in the student's **senior year**. Some programs may be available to juniors. Individual placements are done with the school counselor, parent and student. The decision to attend a class requires career exploration commitment.

Interested students that meet the following criteria will have their application for the program considered, but not guaranteed.

1. Students will be asked to participate in certain career exploration activities to ensure they are making an appropriate choice.
2. Students must not have CREDIT DENIED status in any of their academic classes in June.
3. By the end of summer school, 11th graders **MUST** have completed 15 credits.

Career & Technical Education Courses (1300):

Animal Science
Automotive Technology
Autobody Repair and Car
Customizing Aviation/ Airframe
Mechanics
Barbering
Carpentry/ Residential Construction
Certified Personal Trainer
Clinical Medical Assisting
Computer Technology & Repair
Cosmetology
Culinary Arts/ Restaurant Management
Dental Chairside Assisting
Drone Technology

Early Childhood Education
Electrical Trade and Alternative Energy
Engineering
Heating/ Ventilation & Air Conditioning
Law Enforcement
Marine/ Motorsports Technology
Nurse Assisting
Pharmacy Technician
Physical Therapy Aide
Plumbing & Heating
Practical Nursing
Welding/ Metal Fabrication

October Attendance Requirement:

Any student who has more than 3 absences by the 3rd Friday in October will be automatically dropped. The student will be able to add second semester classes **ONLY**. Students must adhere to the high school Attendance Policy. Any student who has less than a 90% attendance rate will receive an **AUDIT** on their Hauppauge High School report card and will receive no credit for the course. Extenuating circumstances will be considered using the same appeals process used for Hauppauge High School course credit.

English

All students in English classes (9th -11th) will be required to participate in Renaissance STAR Reading Assessment three times during the school year (Fall, Winter, Spring). Data will be used to provide support and guide classroom instruction.

0101 HONORS ENGLISH 9 (Level 4)

FULL-YEAR / DAILY / 1.0 CREDIT

Recommended criteria: Successful completion of English 8 with a final grade of 95 percent or above and achievement of a Level 4 on the New York State ELA 8 assessment

Students enrolled in Honors English 9 will be exposed to advanced language arts activities which are vertically aligned to prepare students for the rigors of the NYS Next Generation Standards and advanced courses. Challenging works of literature by authors such as Steinbeck, Shakespeare, Achebe and Sophocles will be read and discussed. In addition, students are expected to write a term paper, complete a critical review, make oral reports, create a short story or poem and demonstrate excellence on a final exam, consisting of literature, composition, language-grammar and reading. This course requires completion of a summer assignment, as well as quarterly independent reading and writing projects.

0102 ENGLISH 9 (Level 3)

FULL-YEAR / DAILY / 1.0 CREDIT

Literary genres studied in this Regents-level course include the short story, poetry, tragedy, mystery and the novel, with specific titles written by acclaimed authors such as Sophocles, Shakespeare, Steinbeck and Lee. Periodic assessment tests in grammar, usage, punctuation, vocabulary and spelling serve as guides for classroom instruction in English language skills. Expository writing instruction involves the conscious imitation of writing models designed to meet the expectations of the NYS Next Generation Standards. Students will continue to develop their research skills, culminating in a mini-research paper and/or oral presentation.

0108 ENG. 10/ADVANCED PLACEMENT LANGUAGE AND COMPOSITION (Level 6)

FULL-YEAR / DAILY / 1.0 CREDIT

Prerequisite: Honors English 9, English 9

Recommended criteria: Successful completion of Honors English 9 with a final grade of 90 percent or above OR a final grade of 95 percent or above in English 9

The English 10/ AP English Language and Composition course is designed to help students become skilled readers of prose in a variety of periods, disciplines and rhetorical contexts and to become skilled writers who can compose for a variety of purposes. Through their writing and reading in this course, students will heighten their awareness of the interactions among a writer's purpose, audience expectations and subjects. They will explore how generic conventions and the resources of language contribute to effective writing. Students are expected to process information at high levels of inference, criticism, creativity and fluency and are often required to work independently to complete writing, research and creative assignments. This course culminates in a rigorous three-hour Advanced Placement examination in May. This course requires completion of a summer assignment, as well as quarterly independent reading and writing projects.

0107 ENGLISH 10 (Level 3)**FULL-YEAR / DAILY / 1.0 CREDIT****Prerequisite: English 9 or Honors English 9**

Literary themes studied in this Regents-level course include man's internal struggles, man's reaction to society, man's relation to moral law and man's relation to nature. Students will read and analyze literature in the various genres. Authors studied may include Sophocles, Shakespeare, Golding, and Orwell. Periodic assessments in grammar, usage, punctuation, vocabulary and spelling serve as guides for classroom instruction in English language skills. Students will compose expository essays and complete a research project. Lessons and class activities include instruction aligned to the NYS Next Generation Standards.

0134 IB LANGUAGE AND LITERATURE HLI (Level 6)**GRADE 11****FULL-YEAR / DAILY / 1.0 CREDIT**

Recommended criteria: successful completion of Honors English 10 with a final grade of 90 percent or above OR a final grade of 95 percent or above in English 10 and a minimum PSAT Critical Reading score of 50

This is the first year of a two-year course of study which provides students the opportunity to examine and explore the dynamic use of language in multiple environments including print, visual and electronic media and also offers a deeper understanding of literature's role in a contemporary society. Curriculum in this challenging college-level course includes fiction, non-fiction, full-length works, as well as shorter excerpts of literary, visual and non-literary texts. A variety of perspectives, including cultural and historical, will be examined within a contextual framework over the two-year sequence of the course. Units of study for both language and literature provide students with analytical and writing skills, as well as preparation for internal and external assessments within the IB model, including the Individual Oral Commentary, four written tasks and two written exams at the end of the senior year. The course also prepares students for the NYS Regents Examination in English which is taken at the end of the junior year. Year two builds on those skills acquired in year one of this course.

0116 ADVANCED PLACEMENT LITERATURE AND COMPOSITION (Level 6)**FULL-YEAR / DAILY / 1.0 CREDIT****Prerequisite: Honors English 10 or English 10**

Recommended criteria: successful completion of Honors English 10 with a final grade of 90 percent or above OR a final grade of 95 percent or above in English 10 and a minimum PSAT Critical Reading score of 50

Students will carefully read and intensively study a number of works of imaginative literature from various genres and periods. They will analyze and discuss these various works, their characters, action, structure and language. They will consider significant literary elements such as form, theme, tone, imagery and symbolism. Writing assignments will be an integral part of this course and will focus on the critical analysis of literature through expository, analytical and argumentative essays. Lessons and class activities include instruction aligned to the NYS Next Generation Standards. This course culminates in a rigorous three-hour Advanced Placement examination in May and students who are juniors will also take the NYS Regents Examination in English. **This course requires the completion of a summer assignment.**

0112 ENGLISH 11 (Level 3)**FULL-YEAR / DAILY / 1.0 CREDIT****Prerequisite: Honors English 10 or English 10**

Students will explore various elements in challenging works by authors such as Fitzgerald, Shakespeare and Twain. In addition, intensive vocabulary study helps prepare students for the SAT and ACT, as well as, improve self-expression and comprehension. Students will complete a wide variety of writing tasks that address the NYS Next Generation Standards in preparation for the NYS Regents Examination in English.

ACADEMIC INTERVENTION SERVICES**0102R ENGLISH 9****0107R ENGLISH 10****0112R ENGLISH 11****FULL-YEAR / ALTERNATING DAYS / NO CREDIT**

This program emphasizes all communicative skills necessary to pass the NYS Regents Examination in English. Students will develop and strengthen listening, reading and writing skills through a variety of learning activities designed to parallel tasks on the Regents examination.

SENIOR ENGLISH

All students must complete four years of English at the appropriate level in order to graduate. Prior to the senior year, students must have earned one credit of English in the freshman, sophomore and junior years. To achieve the final credit of English in the senior year, students may elect to earn the credit through the successful completion of one of the following:

- **International Baccalaureate (IB) Language and Literature, HLII**
(second year of a two-year course)
- **Advanced Placement (AP) Language and Composition**
- **College Freshman English**
- **English 12**

0135 IB LANGUAGE AND LITERATURE HLII (Level 6)**GRADE 12****FULL-YEAR / DAILY / 1.0 CREDIT****Prerequisite: Successful completion of IB Language and Literature HL I**

This is the second year of a two-year course of study that begins in the junior year. This course provides students the opportunity to examine and explore the dynamic use of language in multiple environments including print, visual and electronic media and also offers a deeper understanding of literature's role in a contemporary society. Curriculum in this challenging college-level course includes fiction, non-fiction, full-length works, as well as shorter excerpts of literary, visual and non-literary texts. A variety of perspectives, including cultural and historical, will be examined within a contextual framework over the two-year sequence of the course. Units of study for both language and literature provide students with analytical and writing skills as well as preparation for internal and external assessments within the IB model including the Individual Oral Commentary, four written tasks and two written exams at the end of the senior year. Year two builds on those skills acquired in year one of this course.

0111 ADVANCED PLACEMENT LANGUAGE AND COMPOSITION (Level 6)

FULL-YEAR / DAILY / 1.0 CREDIT

Recommended criteria: successful completion of Advanced Placement Literature and Composition with a final grade of 85 or above OR a final grade of 95 in English 11 and a minimum PSAT or SAT Critical Reading score of 50. This is a full-year, one credit course. Earning half credit for early graduation is NOT an option.

The AP English Language and Composition course is designed to help students become skilled readers of prose in a variety of periods, disciplines and rhetorical contexts and to become skilled writers who can compose for a variety of purposes. Through their writing and reading in this course, students will heighten their awareness of the interactions among a writer's purpose, audience expectations and subjects. They will explore how generic conventions and the resources of language contribute to effective writing. This course culminates in a rigorous three-hour Advanced Placement examination in May. **This course requires completion of a summer assignment.**

0117 COLLEGE FRESHMAN ENGLISH (Level 5)

GRADE 12: SUFFOLK COUNTY COMMUNITY COLLEGE: 3.0 COLLEGE CREDITS

FULL-YEAR / DAILY / 1.0 CREDIT

Recommended criteria: minimum overall high school average of 80 percent, a final grade of 88 in English 11, and a minimum PSAT Verbal score of 48. This is a full-year, one-credit course. Earning half credit for early graduation is NOT an option.

This course, offered in conjunction with the Suffolk County Community College Excelsior Program, explores principles of rhetoric and stresses effective expository writing. This course, primarily a course in organization of ideas and development of ideas through the use of specific information, also addresses matters of style, sentence structure, paragraph development, punctuation, and vocabulary, with emphasis on close reading of college-level materials.

Additionally, upon completion of this course, students will be able to: explore ways to organize and develop expository writing; demonstrate an awareness of form and audience; revise and rewrite for varied purposes; develop critical arguments; identify, analyze and evaluate those arguments; access, evaluate and utilize research, information, and resources to support and strengthen writing; use MLA in-text citations and compose a list of works cited.

Through payment of appropriate fees, a student can simultaneously earn high school and college credits.

0132 ENGLISH 12 (Level 3)

FULL-YEAR / DAILY / 1.0 CREDIT

Prerequisite: IB Language & Literature HL I, AP Literature & Composition, or English 11

English 12 is aligned to the NYS Next Generation Standards and prepares students to be college and career ready. Traditional and contemporary literature will be used to support students' work on the skills of inference, analysis, synthesis and evaluation. Writing assignments will be offered that require students to make use of the writing process to develop informational, persuasive, research and creative writing pieces. Direct vocabulary instruction will be provided to support students' vocabulary development. **This course requires completion of a summer assignment, as well as quarterly independent reading and writing projects.**

0125 CREATIVE WRITING (Level 3)**HALF-YEAR / DAILY / 0.5 CREDIT**

This writing-intensive workshop focuses on the reading, analysis and application of methods and form used in various works of fiction, drama, and poetry. This course is intended, not only to provide students who are serious about writing with an opportunity to express themselves, but also to focus on word choice, form, process, idea generation and other skills useful in writing both fiction and nonfiction.

0130A JOURNALISM I (NEWSPAPER) (Level 3)**FULL-YEAR / ALTERNATING DAYS / 0.5 CREDIT**

Students will be graded on a Pass/Fail basis. This course does not earn credit toward the four (4) units of English needed for graduation. Enrollment is limited and underclassmen acceptance into this course is based upon availability.

This full-year course is specifically designed for students who wish to work on the staff of the school newspaper, "The Soaring Eagle." After a series of introductory lessons, classes are conducted as workshops where students work independently to meet deadlines on their respective assignments. Editors are selected based on interest and level of skill. Only students who wish to work collaboratively to publish a monthly periodical should enroll. Independent study is an option pending approval from the teacher and English Director.

0129A JOURNALISM II (YEARBOOK) (Level 3)**FULL-YEAR / ALTERNATING DAYS / 0.5 CREDIT**

Students will be graded on a Pass/Fail basis. This course does not earn credit toward the four (4) units of English needed for graduation. Enrollment is limited and underclassmen acceptance into this course is based upon availability.

This full-year course is designed to give the student practical knowledge and first-hand experience in printing and publishing the school yearbook. Students will shape the entire publication including the cover format, page allotment, pagination, page layouts, headlines, finances, etc. Editing work, meeting deadlines and all particulars germane to printing and production will be executed. Editors of the yearbook must enroll in the course. There is no prerequisite, but journalism experience would be beneficial. Students are required to work 10 hours per quarter in outside time.

Family and Consumer Science, Health, and Physical Education

Family and Consumer Science

1004 CAREER AND CONSUMER READINESS (Level 3)

FULL-YEAR / DAILY / 1.0 CREDIT

Career and Consumer Readiness is a full-year course designed to prepare students for the realities and responsibilities of managing all aspects of adulthood: education, career, interpersonal relationships, civic involvement, and financial security and nutrition, including food preparation. Students will need the ability to make knowledge-based decisions as they learn to navigate the demands of the 21st century.

Health

1101 HEALTH (Level 3)

HALF-YEAR / DAILY / 0.5 CREDIT

1102 HEALTH 2X (Level 3)

FULL-YEAR / ALTERNATING DAYS / 0.5 CREDIT

This one-semester course is a state requirement for all high school students. The course will have two major objectives: to teach practical decision-making skills that will prepare students to handle the increasing peer pressure and the many unhealthy temptations that they will encounter during their high school years; and to provide them with some of the fundamental knowledge they will need to make informed decisions regarding their personal health and habits. Topics that will be covered include tobacco and drug abuse prevention, nutrition and weight control, suicide intervention and HIV/AIDS and STD education.

1103 LEADERSHIP (Level 3)

HALF-YEAR / DAILY / 0.5 CREDIT

1103A LEADERSHIP 2X (Level 3)

FULL-YEAR / ALTERNATING DAYS / 0.5 CREDIT

Through meaningful and purposeful leadership experience, students will develop the necessary skills, attributes and knowledge to identify their own strengths and develop areas for growth, tackle challenges, and initiate and plan leadership experiences. Students will work collaboratively to engage with issues of local and global significance and will recognize and consider the ethics of leadership choices and actions.

Physical Education

1110 PE GRADE 9 (1S) / 1111 PE GRADE 9 (2S)

1113 PE (1S) / 1114 PE (2S) / GRADES 10-12

HALF-YEAR / ALTERNATING DAYS / 0.25 CREDIT

All students are required to take a physical education program of instruction under State Law (Section 805:5204). The law requires attendance and active participation. A total of two credits must be earned in order to attain a high school diploma. All high school freshman students will participate in a semester of swimming, weight training, cycling and jogging. This semester-long unit will focus on cardiovascular endurance and the principles associated with increasing overall fitness levels.

Students must attend and participate in 90% of all scheduled classes during the semester in order to receive course credit. Students are allowed to make up five excused absences during each semester. **Unexcused absences** or being **unprepared** cannot be made up. Missing class due to attendance in the Ignition program will count towards "Character Education" credit and will not have to be made up.

Students who are considered medically excused from class must present a doctor's note to their teacher and school nurse and are required to complete a written report to satisfy their participation grade for that class. If the medical excuse is for a longer period of time (five or more classes) and modifications cannot be made to that activity, the student will be required to complete a term paper on that activity to satisfy their participation grade for that activity.

The following activities are taught as they relate to a wellness concept. It should be noted that whatever activities are chosen, all students require the physical fitness-testing program.

Adventure Education	Soccer
Badminton	Softball
Basketball	Team Handball
Cooperative Games	Tennis
Cycling	Ultimate Frisbee
Football	Volleyball
Golf	Weight Training
Lacrosse	Yoga

1115 PE BOCES (1S) / 1116 PE BOCES (2S)

HALF-YEAR / ALTERNATING DAYS / 0.25 CREDIT

This alternative physical education class will meet from 2:15-3:00 p.m. on alternating days. It is designed for the BOCES student who is unable to fit physical education in their regular schedule. The activities offered will be consistent with our regular physical education curriculum.

Mathematics

SUMMER 2018 BRIDGE COURSE INFORMATION

Students self-selecting into Geometry, Geometry Honors, Algebra II, and Algebra II Honors who do not meet the requirements and/or were not recommended by their current math teacher will be required to attend a two-week Summer Bridge Course during July / August. Students who do not attend the required Summer Bridge Course will be required to complete a summer project. Students who do not complete the Bridge Course or the summer project will be rescheduled for their originally recommended math course for the 2018-19 school year.

0305 ALGEBRA I (Level 3)

FULL-YEAR / DAILY / PLUS ALTERNATING DAY LAB / 1.0 CREDIT

This course is the first year Regents sequence in mathematics. This course follows the NYS Algebra I Common Core curriculum. The fundamental purpose of this course is to formalize and expand the mathematics that students learned in the middle grades. This course deepens and extends the understanding of linear and exponential relationships by contrasting them with each other and by applying linear models to data that exhibit a linear trend. In this course, students also engage in methods for analyzing, solving, and using quadratic functions. The Mathematical Practice Standards apply throughout the course and, together with the content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations. Students take a midterm in January and the Algebra I Regents examination in June. The Regents examination grade counts as one-fifth of the overall course grade and is a graduation requirement. Students will be required to use a graphing calculator.

0323 GEOMETRY (Level 3)

FULL-YEAR / DAILY / PLUS ALTERNATING DAY LAB / 1.0 CREDIT

This course follows the NYS Geometry Common Core curriculum. The fundamental purpose of the course in Geometry is to formalize and expand students' geometric experiences from the middle grades. Students explore more complex geometric situations and deepen their explanations of geometric relationships, moving towards formal mathematical arguments. Important differences exist between this Geometry course and the historical approach taken in Geometry classes. For example, transformations are emphasized early in this course. Close attention should be paid to the introductory content for the Geometry conceptual category found in the high school CCSS. The Mathematical Practice Standards apply throughout each course and, together with the content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations. Students will be required to use a graphing calculator and use the traditional tools of compass and straightedge. Students take a midterm in January and the NYS Geometry Regents examination in June. The Regents examination grade counts as one-fifth of the overall course grade.

0302 LOGIC AND TOPICS (Level 3)**FULL-YEAR / DAILY / 1.0 CREDIT****Prerequisite: Algebra I**

Logic and Topics is aligned to the NYS Geometry Common Core curriculum. This course is intended for students that want to gain a stronger foundation in Algebra and Geometry before they enroll in Geometry. This course will provide students with an in depth understanding of reasoning, problem solving, and geometric concepts. Students who successfully complete this course can enroll in Geometry. Students will sit for a departmental final at the end of this course.

0301 HONORS GEOMETRY (Level 4)**FULL-YEAR / DAILY / 1.0 CREDIT****Recommended Criteria: completion of Honors Algebra I with a final grade of 85 percent or above with no quarterly average below 85 or teacher recommendation**

This course follows the NYS Geometry Common Core curriculum. The fundamental purpose of the course in Geometry is to formalize and expand students' geometric experiences from the middle grades. Students explore more complex geometric situations and deepen their explanations of geometric relationships, moving towards formal mathematical arguments. Important differences exist between this Geometry course and the historical approach taken in Geometry classes. Additional topics may be included in Honors Geometry for enrichment purposes. Students enrolled in an honors mathematics course will be required to complete a project, and will have opportunities to participate in numerous mathematics competitions and/or the math fair. Students will be required to use a graphing calculator and use the traditional tools of compass and straightedge. Students take a midterm in January and the NYS Geometry Regents examination in June. The Regents examination grade counts as one-fifth of the overall course grade.

0328 ALGEBRA II (Level 3)**FULL-YEAR / DAILY / PLUS ALTERNATING DAY LAB / 1.0 CREDIT**

This course is the capstone course of the three units of credit required for an Advanced Regents diploma. This course follows the NYS Algebra II Common Core curriculum. This course is a continuation and extension of the two courses that preceded it. This course meets for two periods every other day. The families of functions to be studied will include polynomials, absolute value, radical, trigonometric, exponential, and logarithmic functions. Other topics will include but not be limited to: advanced algebraic techniques, data analysis extended to include measures of dispersion and the analysis of regression and associated correlation coefficients, arithmetic and geometric sequences, probability theory and the normal probability distribution, right triangle trigonometry expanded to include the investigation of circular functions, trigonometric equations, and trigonometric identities. Students take a midterm in January and the NYS Algebra II Regents examination in June. The Regents examination grade counts as one-fifth of the overall course grade.

0332 FUNCTIONS AND TRIGONOMETRY (Level 3)**FULL-YEAR / DAILY / 1.0 CREDIT****Prerequisite: Geometry**

Functions and Trigonometry can serve as the third required math course. Functions and Trigonometry is aligned to the NYS Algebra II Common Core curriculum. This course is intended for students who want to gain a stronger foundation in Algebra before they enroll in Algebra II. Students who successfully complete this course can enroll in Algebra II. Students will sit for a departmental final at the end of this course.

0309 HONORS ALGEBRA II (Level 4)**FULL-YEAR / DAILY / 1.0 CREDIT****Recommended Criteria: completion of Honors Geometry with a final grade of 85 percent or above with no quarterly average below 85 or teacher recommendation**

This course is the capstone course of the three units of credit required for an Advanced Regents diploma. This course follows the NYS Algebra II Common Core curriculum. The families of functions to be studied will include polynomials, absolute value, radical, trigonometric, exponential, and logarithmic functions. Other topics will include but not limited to: advanced algebraic techniques, data analysis extended to include measures of dispersion and the analysis of regression and associated correlation coefficients, arithmetic and geometric sequences, probability theory and the normal probability distribution, right triangle trigonometry expanded to include the investigation of circular functions, trigonometric equations, and trigonometric identities. Students will also be required to use a graphing calculator. Students take a midterm in January and the NYS Algebra II Regents examination in June. The Regents examination grade counts as one-fifth of the overall course grade.

0331 STATISTICS (Level 3)**FULL-YEAR / DAILY / 1.0 CREDIT****Prerequisite: Functions and Trigonometry and/or Algebra II, 12th grade course**

Students will study core topics including algebra, statistics, probability and some pre-calculus. These topics will be covered in greater depth than in the Regents Courses and will prepare students for college-level mathematics. This course culminates in a departmental final exam.

0314 PRE CALCULUS (Level 4)**FULL-YEAR / DAILY / 1.0 CREDIT****Prerequisite: Algebra II****Recommended Criteria: a final average of 75 or better in Algebra II**

This course is an advanced form of algebraic math and a student's gateway to calculus and college-level mathematics. This course is an integrated course that requires the prior knowledge and understanding of algebra, geometry and trigonometry. Some topics students will study, in depth, are functions and their properties, which include trigonometric functions, rational functions and exponential and logarithmic functions. Students will be introduced to limits and derivatives. This course culminates in a departmental final exam.

0319 COLLEGE CALCULUS (Level 5)**GRADE 12: SYRACUSE UNIVERSITY MAT 295: 4.0 COLLEGE CREDITS****FULL-YEAR / DAILY / 1.0 CREDIT****Prerequisite: Pre-calculus****Recommended Criteria: a final average of 80 or better in Pre-calculus**

College Calculus is a year-long course designed for students to learn college-level calculus. This course is intended for college mathematics, science, and engineering majors and also for those students in other majors who intend to take more advanced courses in mathematics. This course is a college-level course designed after MAT 295 offered at Syracuse University. Through the Syracuse University Project Advance (SUPA) program, students who pass this course with a 73 or higher (C or higher) will earn 4.0 undergraduate credits that may be transferred to the college that they will attend next fall (the tuition fee is at a reduced rate of approximately 1/7 of the regular tuition rate at Syracuse University). College Calculus will cover functions, limits, differentiation, and integration as well as applications such as curve sketching, optimization, linear approximation, and computation of areas and volumes.

0333 IB MATHEMATICS SL /**0334 IB MATHEMATICS SL LAB (Level 6)****GRADES 11 AND 12****FULL-YEAR / DAILY / PLUS ALTERNATING DAY LAB / 1.5 CREDIT****Prerequisite: Algebra II****Recommended Criteria: completion of Honors Algebra II with a final grade greater than 85 and teacher recommendation**

The IB Mathematics Standard Level course provides students with a comprehensive and sound mathematical background in preparation for future studies in economics, science, technology and mathematics at the high school and collegiate level. This course will also prepare students to take AP Calculus in grade 12. Course topics include, but are not limited to, the exploration of various functions and their applications, exponential functions, logarithms, trigonometry, limits, derivatives and an introduction to integrals. Pursuant to IB assessment guidelines, students will be required to submit a portfolio consisting of an extended assignment based on areas in the syllabus. Students are also required to complete a two-day external exam during IB's examination period in May.

0335 IB MATHEMATICAL STUDIES SL /
0336 IB MATHEMATICAL STUDIES SL LAB (Level 6)
GRADES 11 AND 12
FULL-YEAR / DAILY / PLUS ALTERNATING DAY LAB / 1.5 CREDIT

Prerequisite: Algebra II

Recommended Criteria: passing the Algebra II Regents

The IB Math Studies SL course develops skills necessary to cope with the mathematical demands of a technological society. The course emphasizes the application of mathematics to real-life, everyday situations. Eight core topics are explored: Introduction to the Graphic Display Calculator, Number and Algebra, Sets, Logic and Probability, Functions, Geometry and Trigonometry, Statistics, Introductory Differential Calculus, and Financial Mathematics. Students will be required to submit a project that involves collecting or generating data that includes the analysis and evaluation of it. Students will also be required to complete two written examination papers at the end of the course.

0320 ADVANCED PLACEMENT STATISTICS (Level 6)
FULL-YEAR / DAILY / 1.0 CREDIT

Prerequisite: Algebra II

This course is equivalent to a one-semester, introductory non-calculus-based, college course in statistics. Students will be exposed to four broad conceptual themes: 1) exploring data, 2) deciding what and how to measure, 3) producing models using probability and simulation, and 4) statistical inference. Students will be required to conduct statistical research and submit curriculum-based projects. The use of the graphing calculator is an integral part of the course. Students are required to take the AP Exam in May

0318 ADVANCED PLACEMENT CALCULUS AB (Level 6)
FULL-YEAR / DAILY / 1.0 CREDIT

Recommended Criteria: completion of IB Math SL with a final grade of 85 or above and teacher recommendation

The AP Calculus AB course is a full academic-year course equivalent to an introductory level college calculus course. It is a challenging course designed for high school students who have completed four years of secondary mathematics courses including Algebra, Geometry, Algebra II and Pre-Calculus. Work is comparable to that required in most college and university calculus courses. Students will be required to take the AP Calculus AB exam offered in May. Successful completion of the AP Exam may provide students with the opportunity to receive college credit. Emphasis is on conceptual understanding. However, facility with manipulation and computational skills are important outcomes. Students should expect the course as well as the AP Exam to truly push the depth of their understanding of mathematics generally and calculus specifically. Students should be able to work with functions represented in a variety of ways: graphical, numerical, analytical, or verbal. They should understand the connections among these representations.

0318A ADVANCED PLACEMENT CALCULUS BC (Level 6)

FULL-YEAR / DAILY / 1.0 CREDIT

Recommended Criteria: completion of IB Math SL with a final grade of 90 or higher with teacher recommendation

The AP Calculus BC course is a full academic-year course equivalent to an advanced level college calculus course. It is a challenging course designed for high school students who have completed four years of secondary mathematics courses including Algebra, Geometry, Algebra II, and Pre-Calculus. Work is comparable to that required in most college and university calculus courses. Students will be required to take the AP Calculus BC exam offered in May. Successful completion of the AP Exam may provide students with the opportunity to receive college credit. Emphasis is on conceptual understanding. However, facility with manipulation and computational skills are important outcomes. Students should expect the course as well as the AP Exam to truly push the depth of their understanding of mathematics generally and calculus specifically. Students should be able to work with functions represented in a variety of ways: graphical, numerical, analytical, or verbal. They should understand the connections among these representations. The AP Calculus BC course covers all topics in the AP Calculus AB course plus the following additional topics: parametric, polar and vector functions, Euler's method, improper integrals, logistic differential equations, polynomial approximations and series, Taylor series.

Music, Theater, and Dance

Music

0806 TREBLE CHOIR (Level 3)

FULL-YEAR / DAILY / 1.0 CREDIT

Treble choir is open to all students in grades 9-12 who have treble (typically soprano and alto range) voices. Programs are chosen from the best in classical and contemporary choral literature. Basic skills in the areas of vocal production, music, reading, intonation, part singing and balance are developed. Formal concerts are held twice a year, in the winter and the spring. The treble choir rehearses daily and students are required to attend one small-group lesson per week. Lessons are organized on a rotating basis. Admission is by audition. This course satisfies the graduation requirement in the Arts.

0809 CONCERT CHORUS (Level 3)

FULL-YEAR / DAILY / 1.0 CREDIT

Programs are chosen from the best in choral literature. These include a winter concert, and a spring concert containing a wide variety of songs such as Broadway musicals, spirituals, madrigals, experimental, etc. The concert chorus rehearses daily and students are required to attend one small-group lesson per week. Lessons are organized on a rotating basis. Admission is by audition. This course satisfies the graduation requirement in the Arts.

0804 CONCERT BAND (Level 3)

FULL-YEAR / DAILY / 1.0 CREDIT

Concert Band is a class offered to students in grades 9-12 who are interested in performing on brass, woodwind, or percussion instruments. The class meets for rehearsal every day for one period. Participation in the marching band is required, including two night rehearsals a week for the months of September and October. Participation is also required in small-group rotating lessons. These groups meet once per week and provide deeper study of such topics as tone production, note reading, rhythmic accuracy and performance technique. The band performs several times throughout the school year, including concerts, football games and parades. Students have the opportunity to explore more challenging music and to deepen their musical knowledge by rehearsing and performing pieces from the standard and contemporary band repertoire. This class also incorporates elements of music theory and history, and seeks to develop within each student a broad appreciation for the art of making music. This course satisfies the graduation requirement in the Arts.

0811 CONCERT ORCHESTRA (Level 3)**FULL-YEAR / DAILY / 1.0 CREDIT****Prerequisite:** Successful completion of previous year's orchestra course and permission of instructor.

This orchestra course is for intermediate string students. The course will allow students to acquire the skills, habits, and techniques necessary for effective musical expression. Students will participate in ensemble performances, gaining insight into the principles of artistic playing. Public performance is a course requirement as well as small-group lessons which are scheduled on a rotating basis. This course satisfies the graduation requirement in the Arts.

0805 HONORS TREBLE CHOIR (Level 4)**0808 HONORS CONCERT CHORUS (Level 4)****0803 HONORS CONCERT BAND (Level 4)****0810 HONORS CONCERT ORCHESTRA (Level 4)**

Students can be recommended by their teacher for honors level courses based on the following criteria:

- NYSSMA rating Level IV-Outstanding or V-VI of 90-100%
- Solo performance at NYSSMA level V or VI
- Final grade of 90 percent or above for the prior year
- Attendance at 2 professional concerts
- Full participation in all phases of the regular program
- Independent assignments (one each quarter)
- Participation in smaller ensembles (trios, quartet, etc.)
- Multimedia project with a focus on creativity
- Research paper

0807 HONORS CHAMBER SINGERS (Level 4)**FULL-YEAR / DAILY / 1.0 CREDIT****Prerequisite:** Students are selected by audition. Minimum average of 90 percent in Concert Chorus or Treble Choir and participation in NYSSMA level 4, 5 or 6

This course is designed to provide advanced choral students with an opportunity for in-depth study of vocal repertoire through singing and to enable students to explore advanced choral literature through performance in a vocally balanced ensemble. Personnel for the ensemble is dependent upon vocal balance. Requirements include participation in a wide variety of performances and venues and group lessons, which are scheduled on a rotating basis.

0827 HONORS WIND ENSEMBLE (Level 4)**FULL-YEAR / DAILY / 1.0 CREDIT****Prerequisite:** Students are selected by audition. Minimum average of 90 percent in Concert Band and comparable NYSSMA rating

This course is designed to provide the advanced instrumental students with the opportunity to develop advanced playing techniques and skills through the study of representative band literature from the major music periods. Personnel for the ensemble is dependent upon balanced instrumentation. Requirements include public performance, participation in marching band, participation in additional ensembles (trios, quartets, chamber music, etc.) and small group lessons, which are scheduled on a rotating basis.

0826 HONORS CHAMBER ORCHESTRA (Level 4)**FULL-YEAR / DAILY / 1.0 CREDIT****Prerequisite: Students are selected by audition. Minimum average of 90 percent in Concert Orchestra and participate in NYSSMA level 5 or 6**

This course is designed to provide advanced orchestral students with the opportunity to develop advanced playing techniques and skills through the study of representative orchestral literature from the major music periods. Requirements include public performance, participation in additional ensembles (trios, quartets, select ensembles, etc.) and small-group lessons which are scheduled on a rotating basis. The Chamber Orchestra students may combine with the Wind Ensemble students to form a Symphony Orchestra allowing the students to perform full orchestra repertoire. Personnel for the ensemble is dependent upon orchestra balance.

0818 MUSIC TECHNOLOGY/RECORDING TECHNOLOGY (Level 3)**FULL-YEAR / DAILY / 1.0 CREDIT**

This course will offer students the opportunity to integrate technology with Music Composition. It will combine Digital / Audio recording and Midi Programming. Students will explore sound engineering, music production careers, and relate synchronization of music for video. Students will have the opportunity to record school ensembles, solo performances, and small musical groups. Students looking to supplement their college portfolios with recordings will have an opportunity to do so in this course. Students do not need to have experience in band, orchestra, or chorus to take this course. Recording Technology will involve interdisciplinary activities such as design for CD covers; original compositions orchestrated and performed, voice-overs and underscoring for video.

0812 MUSIC THEORY I (Level 3)**FULL-YEAR / DAILY / 1.0 CREDIT****Recommended Criteria: student must be a member of band, orchestra, chorus, or have experience on a solo instrument such as piano or guitar**

This course provides a synthesis of music theory and music literature. The curriculum deals with the visual and aural analysis of musical materials by developing skills in written harmony, ear training, sight singing and keyboard harmony. This course is needed for a 3 or 5 credit sequence in music.

0813 HONORS MUSIC THEORY II (Level 4)**FULL-YEAR / DAILY / 1.0 CREDIT****Prerequisite: Music Theory I**

Honors Music Theory II will include the continued study of harmony and an explanation of instrumentation, form and compositional characteristics through music history. This course is needed for a 5-credit sequence in music.

0814 ADVANCED PLACEMENT MUSIC THEORY (Level 6)**FULL-YEAR / DAILY / 1.0 CREDIT****Prerequisite: Music Theory I**

AP Music Theory will include the continued study of harmony and an explanation of instrumentation, form and compositional characteristics through music history. This course concludes with the AP Music Theory exam.

0829 IB MUSIC HL I (Level 6)**0833 IB MUSIC HL II (Level 6)****GRADES 11 AND 12****2 FULL-YEARS / DAILY / 2.0 CREDITS****Recommended Criteria: Music Theory I**

IB Music HL is a two-year course of study taken every day during the junior and senior years. The aim of the IB Music course is to give students the opportunity to explore and enjoy the diversity of music from around the world through listening, performing, and composing. The Listening/Musical Perception portion of this course will expose students to a wide range of musical styles including Western Classical Music, Jazz, Pop, and World Music. Emphasis will be placed on analyzing musical elements and investigating links between music from diverse cultures. IB external assessments include a Musical Links Investigation into music from two different cultures, as well as a Listening Paper/Exam taken in May of the senior year. Internal assessments include a solo performance as well as a composition/creating component. During the second year of study, students will submit a CD of 30 minutes worth of solo music from public performances. Music may range from classical to rock and is not limited to the traditional "recital" venue. Finally, the creative component of the IB assessment requires the submission of three contrasting compositions totaling 15 minutes when performed. It is highly recommended that students study privately and have some background in music theory prior to enrolling in IB Music.

0837 IB MUSIC SL I (Level 6)**0838 IB MUSIC SL II (Level 6)****GRADES 11 AND 12****2 FULL-YEARS / DAILY / 2.0 CREDITS****Recommended Criteria: Music Theory I**

IB Music SL is a two-year course of study taken every day during the junior and senior years. The aim of the IB Music course is to give students the opportunity to explore and enjoy the diversity of music from around the world through listening, performing, and composing. The Listening/Musical Perception portion of this course will expose students to a wide range of musical styles including Western Classical Music, Jazz, Pop and World Music. Emphasis will be placed on analyzing musical elements and investigating links between music from diverse cultures. IB external assessments include a Musical Links Investigation into music from two different cultures, as well as a Listening Paper/Exam taken in May. For SL internal assessments, students may choose between composition or performing, either solo or group performance. Music may range from classical to rock and is not limited to the traditional "recital" venue. Although it is not required, it is highly recommended that students study privately and have some background in music theory prior to enrolling in IB Music.

Theater

0815 INTRODUCTION TO THEATRE (Level 3)

FULL-YEAR / DAILY / 1.0 CREDIT

A survey of the various aspects of the world of theatre, including such topics as the history of drama and theatre in Western civilization; acting; scenic design; stage lighting; costume; make-up; theatre organization and management; problems of theatrical production and criticism. This course may be used to fulfill the graduation requirement in the Arts.

0816 ACTING ENSEMBLE (Level 3)

FULL-YEAR / DAILY / 1.0 CREDIT

Prerequisite: audition and recommendation

A study of the actor in an ensemble group. Performance projects, to be presented in chamber settings will be developed. Students with special interest may pursue this course through an emphasis on directing.

0817 ADVANCED ACTING ENSEMBLE (Level 3)

0828 HONORS ADVANCED ACTING ENSEMBLE (Level 4)

FULL-YEAR / DAILY / 1.0 CREDIT

Prerequisite: Acting Ensemble, audition, and recommendation

This advanced acting class focuses on individual work and audition pieces. Students will explore a variety of performance pieces ranging from classical to contemporary theatre. Students will learn to create performance structures and have opportunities to experience theatre-related careers such as directing, stage managing, producing and other technical careers.

0824 HONORS MUSICAL THEATRE (Level 4)

FULL-YEAR / DAILY / SINGLE OR DOUBLE PERIOD / 1.0 OR 2.0 CREDITS

The content includes the history of musical theatre and its impact on society, the development and application of vocal, dance and acting techniques as applied to musical theatre performance, and the opportunity for students to develop a portfolio of audition pieces for college. Through regularly scheduled performances, "Recital", Musical Theatre classes will serve as an Arts resource for the general school population, thereby enabling all major sequence. Course content includes advanced applications of techniques, historical knowledge and methods displayed in numerous performances and workshop projects. Students will prepare for college auditions and develop their portfolios for performance beyond high school. Admission to class is by audition.

0831 IB THEATRE HL I (Level 6)

0832 IB THEATRE HL II (Level 6)

GRADES 11 AND 12

2 FULL-YEARS / DAILY / 2.0 CREDITS

This IB Theatre course is a two-year course of study that gives students an opportunity to learn about all aspects of theatre including production, performance and analysis. Students will have an opportunity to learn about theatre around the world, its development and significance and how theatre is used to reflect the world around us. Students will learn to research creatively and imaginatively while they are called upon to use the art of theatre to become effective communicators. Students will gain experience performing and will hone their technical skills for all aspects of theatre production from concept and design to actually producing theatrical works. Assessments include a researched study, oral presentation, performance skills, as well as, a written portfolio and individual project of a student's choice.

0835 IB THEATRE SL I (Level 6)

0836 IB THEATRE SL II (Level 6)

GRADES 11 AND 12

2 FULL-YEARS / DAILY / 2.0 CREDITS

This IB Theatre SL course is a two-year course of study. Students will cover theatre around the world, theatre in the making and theatre in performance. They will learn to analyze, critique, compare and contrast theatre as they study all aspects of the discipline. They will learn about the development of theatre practices and how they act as a representation of the culture and the world that they reflect. Students will engage in performing, producing, directing and creating theatre productions from concept to design and performance. Assessments include a more limited research study than the HL course, oral presentation, performance skills and a written journal and individual project of the student's choice.

Dance

0819A DANCE I (Level 3)

FULL-YEAR / DAILY / 1.0 CREDIT

This course includes the application of dance technique and historical knowledge to performance and workshop projects. Ballet, Jazz, Modern dance technique, cultural dances and historical periods of dance will be studied through video presentations, artist-in-residence presentations, technology presentations, performance visits and practical daily application of skills. Students will study choreography, creating projects reflecting the various performances, technical styles and methods of choreography. Career opportunities in the field of dance will be explored. Students must perform in the Winter and Spring concerts, as well as the Evening of Dance in June. This course will serve as an elective or as credit toward a dance major sequence or as 1 credit of a 5-unit sequence in Fine Arts for a Regents Diploma for high school students. Dance satisfies the Arts requirement for graduation.

0820 DANCE II (Level 3)

FULL-YEAR / DOUBLE PERIOD / 2.0 CREDITS

Prerequisite: Dance I

The course content builds upon previously learned skills and experiences, and includes advanced applications of various dance techniques, historical knowledge and choreographic methods displayed in numerous performances and workshop projects. Students will prepare for college auditions and develop their portfolios for dance beyond high school. Admission to class is by audition.

Science

0402/0403 BIOLOGY/LIVING ENVIRONMENT (Level 3)

FULL-YEAR / DAILY / PLUS ALTERNATING DAY LAB / 1.0 CREDIT

This course is available to and recommended for all ninth-grade Regents-level students. It is based on the NYS Biology /Living Environment core curriculum that includes a basic core of general subject matter as outlined by the NYS Learning Standards, curricula key ideas and localized instructional content. Regents Biology /Living Environment is designed to make students aware of the natural world, teach basic life science concepts, stimulate inductive reasoning and provide a basic understanding of biological processes and generalizations. The course meets one period every day with a double period for extended laboratory investigation every other day.

0464/0465 HONORS BIOLOGY/LIVING ENVIRONMENT (Level 4)

FULL-YEAR / DAILY / PLUS ALTERNATING DAY LAB / 1.0 CREDIT

Prerequisite: completion or concurrent enrollment in Algebra.

Recommended Criteria: eighth grade students should have achieved a 90% or above in science 8 or mastery level, an 85% or above, in Earth Science and on the Earth Science Regents Exam

This course is offered to prepare students for the Living Environment Regents Examination with additional content that is beyond the NYS Living Environment Curriculum. This additional material will prepare students for the SAT subject test in Biology. This class meets every day with a double period on alternating days to complete the 1200 minutes of laboratory required to sit for the Regents exam. The course consists of five main topics: cellular and molecular biology, ecology, genetics, organismal biology, and evolution and diversity.

0416/0417 EARTH SCIENCE/PHYSICAL SETTING (Level 3)

FULL-YEAR / DAILY / PLUS ALTERNATING DAY LAB / 1.0 CREDIT

Recommended Criteria: successful completion of Biology/Living Environment and the Living Environment Regents Exam

This course is based on the NYS Physical Setting - Earth Science Core Curriculum. The course uses components of biology, chemistry, physics, and mathematics as tools to explain and aid in the understanding of natural phenomena occurring within, on and around the earth that has a direct impact on its population. The following topics will be presented: meteorology, ecology, astronomy, geology, rocks and minerals, oceanography, paleontology and more. The course is presented as discussion/investigation. Students will work with earth materials as well as more traditional science apparatus to discover important relationships and concepts. The course meets one period every day with a double period for extended laboratory investigation every other day.

0411/0412 CHEMISTRY/PHYSICAL SETTING (Level 3)**FULL-YEAR / DAILY / PLUS ALTERNATING DAY LAB / 1.0 CREDIT****Prerequisite: Algebra I and Biology/Living Environment****Recommended Criteria: successful completion of Earth Science/Physical Setting and the Earth Science/Physical Setting Regents Exam**

This course is based on the NYS Physical Setting - Chemistry Core Curriculum. The course presents a modern view of chemistry which emphasizes concepts rather than isolated facts. The course will discuss the following key concepts: atomic structure, chemical bonding, states of matter, the periodic table, chemical mathematics, chemical reactions, acid-base chemistry, electrochemistry and organic chemistry. Regents Chemistry is recommended for students planning to attend college and may be used as one-credit toward a NYS Regents diploma sequence in science. The course meets one period every day with a double period for extended laboratory investigation every other day.

0409/0410 HONORS CHEMISTRY/PHYSICAL SETTING (Level 4)**FULL-YEAR/DAILY/ PLUS ALTERNATING DAY LAB / 1.0 CREDIT****Prerequisite: Algebra I and Biology/Living Environment****Eighth graders must receive a 95% or above for the final grade and on the Earth Science Regents Exam in order to take this course in the ninth grade.****Recommended Criteria: mastery level, 85% or above, in Algebra I, and the respective Regents exam and in Honors Biology and the Living Environment Regents Exam.**

This course is based on the NYS Physical Setting - Chemistry Core Curriculum and is enriched with select topics, which are tested by the SAT subject test in chemistry which can be used for college admission. The course presents a modern view of chemistry, which emphasizes concepts rather than isolated facts. The course will focus on the following key concepts: atomic structure, chemical bonding, states of matter, the periodic table, chemical mathematics, chemical reactions, acid-base chemistry, electro-chemistry, and organic chemistry. In addition, special emphasis on topics that will enhance the understanding of biochemistry and additional enrichment will be included. The course meets one period every day, with a double period for extended laboratory investigation every other day.

0414/0415 HONORS PHYSICS/PHYSICAL SETTING (Level 4)**FULL-YEAR / DAILY / PLUS ALTERNATING DAY LAB / 1.0 CREDIT****Prerequisites: Chemistry, Algebra I, and Geometry****Recommended Criteria: mastery level, 85% or above, in Chemistry, Algebra I, & Geometry and their respective Regents exams, completion or concurrent enrollment in Algebra II.**

This honors course is based on the NYS Physical Setting – Physics Core Curriculum. The course focuses on general objectives of physics with emphasis on development of the concepts of matter and energy. The purpose is to develop an understanding and appreciation for the fundamental ideas and mathematical relationships that have guided and inspired physicists through the ages. Major units of discussion include mechanics, the classical origin of physics through electricity and wave phenomena and an introduction to modern quantum, nuclear physics and more. This course is designed for the student who will continue his/her education in a four-year institution. The course meets one period every day, with a double period for extended laboratory investigation every other day. Students unclear of their best placement should discuss options with their school counselor, science teacher and the science director.

0401 ADVANCED PLACEMENT BIOLOGY (Level 6)

FULL-YEAR / DOUBLE PERIOD / 1.0 CREDIT

Prerequisites: Biology and Chemistry. Students wishing to skip Regents-level Biology should have achieved mastery level, 85 % or above, in Chemistry and on the Chemistry Regents Exam.

Recommended Criteria: mastery level, 85% or above, in Chemistry/Physical Setting and in Biology/Living Environment and on their respective Regents exams

This is a very challenging course available to students that have completed a year of high school laboratory science. The course meets ten periods per week. Students will be taught AP topics such as molecules and cells, heredity and evolution, and organisms and populations, as well as content in the Living Environment Core Curriculum. Students are required to take the AP Exam in May and if being taken as a first -year course are required to take the Living Environment Regents examination in June. Students performing exceptionally well are encouraged to take the SAT subject test in biology. Satisfactory completion of 1200 minutes of laboratory work is a prerequisite for taking the Regents examination at the conclusion of the course.

0408/0408A ADVANCED PLACEMENT CHEMISTRY (Level 6)

FULL-YEAR / DOUBLE PERIOD / 1.0 CREDIT

Prerequisites: Chemistry/Physical Setting, Algebra II, completion or concurrent enrollment in Physics/Physical Setting

Recommended Criteria: mastery level, 85% or above, in Chemistry, Physics, and Algebra II and in their respective Regents exams.

This is a challenging, fast-paced course available to seniors who have completed Regents-level (or higher) courses in chemistry and physics. The course is presented similarly to a college-level seminar course with emphasis on problem solving and discussion. Summer assignments may be considered for students to review basic principles in chemistry before entering this AP course in the fall. Students will be prepared to take the AP Exam in May. Satisfactory completion of laboratory work is required. Following the AP examination, work on mandatory individual projects will be completed for class presentations.

0428/0429 ADVANCED PLACEMENT PHYSICS C (Level 6)

FULL-YEAR / DAILY / PLUS ALTERNATING DAY LAB / 1.0 CREDIT

Prerequisite: Honors Physics/Physical Setting or AP/IB Physics Year 1, concurrent enrollment in AP Calculus or College Calculus

Recommended Criteria: mastery level, an 85% or above, in Physics and the Physics Regents Exam and in eleventh grade math.

This is a second-year physics class that should be taken by students interested in pursuing a career in engineering or the physical sciences. Students will learn how to use calculus to solve physics problems. The class will meet for a double period on alternating days. Students will be prepared for the AP exam covering Electricity & Magnetism. There are 5 content areas covered in Electricity and Magnetism: electrostatics; conductors, capacitors and dielectrics; electric circuits; magnetic fields; and electromagnetism. The AP exam is administered in May.

0475/0476 IB PHYSICS HL I (Level 6)**GRADE 11****FULL-YEAR / DAILY / PLUS ALTERNATING DAY LAB / 1.0 CREDIT****Prerequisite:** Chemistry and completion or concurrent enrollment in Algebra II**Recommended Criteria:** mastery level, 85% or above, in Chemistry and Algebra II and their respective Regents exams

The IB Diploma Programme Physics Higher Level course is an algebra-based physics course that combines academic study with the acquisition of practical and investigational skills through the experimental approach. The course is designed to introduce students to the laws of physics and the social and historical aspects of physics as an evolving body of human knowledge about nature. Physics HL is taught over two years. It meets on alternating single and double periods the first year and for single periods the second year. A total of 60 hours of practical (laboratory) work are required over the two years. Ten of the practical work hours are devoted to a mandatory, interdisciplinary group project that is developed and performed by the students. All students enrolled in the class are required to sit for three exams in May of the second year of the course. In addition, all students must complete an internal assessment which is an independent physics research investigation which concludes in a 6 to 12 page paper. A student's final grade will be determined by the quality of homework assignments, tests, quizzes and labs that are completed throughout the school year.

0478 IB PHYSICS HL II (Level 6)**GRADE 12****FULL-YEAR / DAILY / 1.0CREDIT****Prerequisite:** IB Physics HL I

The IB Diploma Programme Physics Higher Level course is an algebra-based physics course that combines academic study with the acquisition of practical and investigational skills through the experimental approach. The course is designed to introduce students to the laws of physics and the social and historical aspects of physics as an evolving body of human knowledge about nature. Physics HL is taught over two years. This is the second year of this course of study. This course meets a single period every day. It includes additional higher learning topics: motion in fields, thermal physics, wave phenomena, electromagnetic radiation, quantum physics and nuclear physics and digital technology. A total of 20 hours of practical (laboratory) work are required during the year to total up to 60 hours needed for the two-year course. All students enrolled in the class are required to sit for three exams in May of the second year of the course. A student's final grade will be determined by the quality of homework assignments, tests, quizzes and labs that are completed throughout the school year.

0413/0413A ADVANCED PLACEMENT PHYSICS 1 (Level 6)**FULL-YEAR / DAILY / PLUS ALTERNATING DAY LAB / 1.0 CREDIT****Prerequisite: Completion or concurrent enrollment in Algebra II****Recommended Criteria: mastery level, 85% or above, in Chemistry/Physical Setting and on the Chemistry Regents Exam in addition to a strong math background.**

This course is a challenging, fast-paced algebra-based course. The course will meet for a double period on alternating days. This course is based on the NYS Physical Setting – Physics Core Curriculum and the College Board Curriculum outline for Physics. The course discusses general objectives of physics with emphasis on development of the concepts of matter and energy. The purpose is to develop an understanding and appreciation for the fundamental ideas and mathematical relationships that have guided and inspired physicists through the ages. Major units of discussion include Newtonian mechanics, (including rotational dynamics and angular momentum), work, energy and power, and mechanical waves and sound. It will also include electric circuits. Students are required to take the AP Exam in May and are required to take the Physical Setting – Physics Regents examination in June. Students performing exceptionally well are encouraged to take the SAT subject test in Physics. Satisfactory completion of 1200 minutes of laboratory work is a prerequisite for taking the Regents examination at the end of the course.

0479/0480 IB ENVIRONMENTAL SYSTEMS AND SOCIETIES SL (Level 6)**GRADES 11 AND 12****FULL-YEAR / DAILY / PLUS ALTERNATING DAY LAB / 1.0 CREDIT****Prerequisites: Biology/Living Environment and a physical setting course and their respective Regents exams.****Recommended criteria: Earth Science/Physical Setting**

In this course, students will learn about the inter-relationships between environmental systems and societies. The course will allow students to adopt an informed personal response to the wide range of pressing environmental issues that they will inevitably come to face. The teaching approach is such that students are allowed to evaluate the scientific, ethical and socio-political aspects of issues. Topics include: systems and models, the ecosystem, human population, carrying capacity and resource use, conservation and biodiversity, pollution management, the issue of global warming and environmental value systems. This course satisfies the Group 4 Experimental Science requirement for the IB diploma program and can also be taken for an IB certificate. Students are required to complete the two IB exams given in May and the internal assessment independent investigation due in March.

0481 IB DESIGN TECHNOLOGY SL (Level 6)**GRADES 11 AND 12****FULL-YEAR / DAILY / PLUS ALTERNATING DAY LAB / 1.0 CREDIT**

Design is the link between innovation and creativity! The design cycle will be applied to cutting edge and in-depth technology and science topics. The topics include human factors, sustainability, material science and production, modeling techniques, innovation and classic design. In addition to the required IB Exams in May, students are required to complete a design project, which will be assessed on four criteria: analysis of a design opportunity, conceptual design, development of a detailed design, and testing and evaluation. This technology course fulfills the Group 4 Science requirement for IB diploma candidates. This course is also open to non-IB students.

0421 SCIENCE RESEARCH IN THE HIGH SCHOOL GRADES 9 AND 10 (Level 4)

0461 SCIENCE RESEARCH IN THE HIGH SCHOOL GRADES 11 AND 12 (Level 5)

FULL-YEAR / ALTERNATING DAYS / 1.0 CREDIT

Prerequisite: Students are selected through an application process required to complete a well-written essay in order to complete the selection process for this course

This course enables students to conduct original scientific research in an independent manner. This four-year program affords students the opportunity to participate in the community of scientific research and scholarship as part of their high school experience. Students are encouraged to work in conjunction with research scientists and professionals within their field of interest, thereby, achieving independent research in mathematics, life sciences, physical sciences and engineering. Students are required to keep a journal and maintain a portfolio of their research. All students are required to enter appropriate local, regional, national, and international scientific competitions. In addition to the possibility of the students' research being published, this program allows the students the opportunity to take the class for college credit. When taken for college credit, students can obtain as many as 12.0 college credits through SUNY Albany and 3.0 high school credits. Students enrolled in this course must also be enrolled in an AP, IB, or Regents-level science course. Seniors enrolled in the program are required to submit a research paper for the Regeneron Science Talent Search competition.

0425 FORENSIC SCIENCE / PHYSICAL SETTING (Level 3)

HALF-YEAR / DAILY / 0.5 CREDIT

GRADES 11 AND 12

Prerequisite: successful completion of two Regents science courses

If this course is to be used as a third credit of science you must also enroll in Astronomy to complete a FULL-YEAR of physical science. This course will provide students with the opportunity to study an exciting application of science: the world of forensic science. Topics of study will include fingerprinting, analysis of prints, fiber and hair analysis, trace, serology and toxicology. Lecture, text work, laboratory exercises, and case studies will be used to teach students the basics of forensics throughout this half-year course. In addition, written exams, quizzes and projects will be used to determine student mastery of topics.

0426 ASTRONOMY / PHYSICAL SETTING (Level 3)

HALF-YEAR / DAILY / 0.5 CREDIT

GRADES 11 AND 12

Prerequisite: successful completion of two Regents science courses

If this course is to be used as a third credit of science you must also enroll in Forensic Science to complete a FULL-YEAR of physical science. This is an introductory course in astronomy that includes hands-on laboratory exercises. There is an emphasis on investigations and opportunities for making observations, collecting, organizing, and presenting data. Students will study planets and learn how to identify major constellations that are visible from Long Island. Computer software, slide shows, and educational videos will be incorporated into the course when appropriate. A final project or final exam is required at the conclusion of the semester.

0427 OCEANOGRAPHY / LIVING ENVIRONMENT (Level 3)

HALF-YEAR / DAILY / 0.5 CREDIT

GRADES 11 AND 12

Prerequisite: successful completion of two Regents science courses

If this course is to be used as a third credit of science you must also enroll in Environmental Studies to complete a FULL-YEAR of living environment. This course will study the environment in the ocean, including waters, depths, beds, animals and plants. Emphasis is placed on the waters of Long Island. The class will include the use of technology (Internet, CD-ROMs) for projects and research information. A final project is required. Enrollment priority will be given to seniors and to students enrolled in a third Regents science course.

0424 ENVIRONMENTAL STUDIES / LIVING ENVIRONMENT (Level 3)

HALF-YEAR / DAILY / 0.5 CREDIT

GRADES 11 AND 12

Prerequisite: successful completion of two Regents science courses

If this course is to be used as a third credit of science you must also enroll in Oceanography to complete a FULL-YEAR of living environment. This course presents a modern, real-world application of present-day environmental issues and concerns. The following topics will be discussed: pollution, overpopulation, global climate, change and specific problems facing Long Island. A final project is required.

0499 IB COMPUTER SCIENCE SL (Level 6)

FULL-YEAR / DAILY / 1.0 Credit

In this course students will develop an understanding of the fundamental concepts of computational thinking as well as how computers and other digital devices operate. The course consists of four topics: system fundamentals, computer organization, network and computational thinking, problem-solving and programming. Students will also learn an option, either databases, modeling and simulations, web science, or object-oriented programming. All students must take the two IB exams in May and complete an internal assessment which includes a computational solution. This IB course fulfills a Group 4 science requirement for the IB diploma and is also open to non-IB students.

Social Studies

0201 ADVANCED PLACEMENT WORLD HISTORY I (Level 6)

FULL-YEAR / DAILY / 1.0 CREDIT

Recommended Criteria: successful completion of grade 8 social studies with a final grade of 90 percent or above, grade 8 social studies assessment with an overall level 4 (85-100) and a level 4-5 on the essay component, teacher recommendation

This is the first year of a two-year course that follows the AP World History curriculum and is designed to develop an in-depth understanding of the evolution of global processes and contacts in conjunction with different types of human societies. This understanding evolves through a combination of selective factual knowledge and appropriate analytical skills. The course highlights the nature of changes in international frameworks and their causes and consequences, as well as comparisons among major societies. The course emphasizes relevant factual knowledge deployed in conjunction with leading interpretive issues and types of historical evidence. The course builds on an understanding of cultural, institutional and technological precedents that, along with geography set the human stage. Students are required to take a departmental midterm and final examination. At the conclusion of the second year, students are required to take the Advanced Placement exam and the Global History and Geography Regents exam. All students will complete a National History Day research project.

0202 GLOBAL HISTORY I (Level 3)

FULL-YEAR / DAILY / 1.0 CREDIT

This course provides students with a series of opportunities to examine global history, largely from a chronological perspective emphasizing themes and concepts. The time frame is from the beginnings of human history to the late 1700s. An emphasis on research and writing skills will be included in this course. Students are required to take a departmental midterm examination in January and a departmental final examination in June both reflecting the Global History and Geography Regents examination format. All students will complete a National History Day research project.

0206 ADVANCED PLACEMENT WORLD HISTORY II (Level 6)**FULL-YEAR / DAILY / 1.0 CREDIT****Recommended Criteria: successful completion of AP World History I and teacher recommendation**

This is the second year of a two-year course that follows the AP World History curriculum and is designed to develop an in-depth understanding of the evolution of global processes and contacts in conjunction with different types of human societies. This understanding is advanced through a combination of selective factual knowledge and appropriate analytical skills. The course highlights the nature of changes in international frameworks and their causes and consequences, as well as comparisons among major societies. The course emphasizes relevant factual knowledge deployed in conjunction with leading interpretive issues and types of historical evidence. The course builds on an understanding of cultural, institutional and technological precedents that, along with geography, set the human stage. Commitment to the subject in the form of extensive readings coupled with a considerable amount of writing, discussions and class projects is required. Students are required to take a departmental midterm, the Advanced Placement examination in May and the Global History and Geography Regents examination in June. All students will complete a National History Day research project.

0207 GLOBAL HISTORY II (Level 3)**FULL-YEAR / DAILY / 1.0 CREDIT**

This course will study world history from 1750-present. Students are provided with a series of opportunities to examine global history largely from a chronological perspective emphasizing themes and concepts. An emphasis on research and writing skills will be included in this course. Students are required to take a departmental midterm examination reflecting the Regents examination in January and the Global History and Geography Regents examination in June. All students will complete a National History Day research project.

0228 IB HISTORY HL I (Level 6)**GRADE 11****FULL-YEAR / DAILY / 1.0 CREDIT**

Recommended Criteria: successful completion of AP World History II with a final grade of 85 percent or above OR a final grade of 95 percent or above in Global History II, teacher recommendation, and approval by the Director of Social Studies

In this two-year course, students in eleventh grade will study a survey that spans from the Age of Exploration through the 20th century. Focus will be on history of the North and South American continent as well as the Caribbean, Mexico and Canada. Study will include the impact of historical events on all these areas and how it affected their relationships with each other and the rest of the world. In this course, students will concentrate on the following themes: the method through which various groups and individuals throughout American History defined “progress;” how a coherent national identity was forged from the multiple backgrounds, interests and experiences of the American people; the way historians use primary sources to construct meaning about the past; how historians construct logical arguments and effectively communicate them through speech and writing; and exploration of what history can (and cannot) teach us. Additionally, students will follow the NYS curriculum in United States history in order to prepare for the United States History and Government Regents taken in June. Departmental midterms and IB assessments will be required of all students. External and internal IB assessments include three exam papers as well as a study report, which is an historical investigation from any area of the syllabus. Students will be prepared to take IB exams in May of twelfth grade in addition to other departmental assessments. All students will complete a National History Day research project.

0211 ADVANCED PLACEMENT UNITED STATES HISTORY (Level 6)**FULL-YEAR / DAILY / 1.0 CREDIT**

Recommended Criteria: successful completion of AP World History II with a final grade of 85 percent or above OR a final grade of 95 percent or above in Global History II and teacher recommendation

This course follows the Advanced Placement program in United States History and is designed to provide students with the analytic skills and factual knowledge necessary to deal critically with United States History. The course prepares student for intermediate and advanced college courses. Students will learn to assess historical materials – their relevance to a given interpretive problem, their reliability and their importance and to weigh the evidence and interpretations presented in historical scholarship. Commitment to the subject in the form of extensive readings coupled with a considerable amount of writing, discussions and class projects is required. Students are required to take the departmental midterm examination in January, Advanced Placement Exam in May and the United States History and Government Regents examination in June. All students will complete a National History Day research project.

0212 UNITED STATES HISTORY AND GOVERNMENT (Level 3)

FULL-YEAR / DAILY / 1.0 CREDIT

This course begins with an in-depth study on the origins and development of the Constitution. As an outgrowth of this first unit, the class will review the history of the United States from 1797 to 1865 through its connection to legal Constitutional development. The remainder of the course is essentially a chronological study of United States history and government from the post-Civil War era to the present. An emphasis on research and writing skills will be included in this course. Students are required to take the departmental midterm examination in January reflecting the Regents examination format and the United States History and Government Regents examination in June. All students will complete a National History Day research project.

0230 [IB THEORY OF KNOWLEDGE I](#) GRADE 11 (Level 6)

0231 [IB THEORY OF KNOWLEDGE II](#) GRADE 12 (Level 6)

2 FULL-YEARS / ALTERNATING DAYS OVER 2 YEARS / 1.0 CREDIT

As a core requirement of the IB Diploma Programme, the TOK course will be taught every other day in both the junior and senior years. The course offers students the opportunity to consider the role and nature of knowledge and prompts students to be aware of themselves as thinkers, encouraging them to become better acquainted with the complexity of knowledge. The TOK classroom finds students actively engaged in ideas, issues, critical thinking and problem-solving. Classroom discussion generates thoughtful and purposeful questioning that leads to deeper understanding of the interpretative nature of knowledge. TOK transcends and links academic subject areas, thus demonstrating interdisciplinary application of knowledge. This discussion-based class develops the ability of students to articulate their perceptions and support their beliefs with specific and concrete evidence. It also fosters students' ability to explore counterarguments. In addition to regular readings, oral presentations, and written assignments throughout the two-year course of study, there are also two IB assessments: an externally assessed essay on a topic prescribed by IB as well as an oral presentation to the class. In both assessments, real life situations will be explored through the lens of the IB subject areas of knowledge and ways of knowing. As one of the core requirements of the IB Diploma Programme, students must pass TOK in order to earn the IB diploma.



0229 IB HISTORY HL II (Level 6)**GRADE 12****FULL-YEAR / DAILY / 1.0 CREDIT**

Recommended Criteria: successful completion of IB History of the Americas HL I with a final grade of 85 percent or above, teacher recommendation, and approval by the Director of Social Studies

This two-year IB group 3 course is a required part of the IB Diploma Programme. In this second year of a two-year course, students in twelfth grade will study a survey that spans from comparative government – constitutions, economic systems, and characteristics of multiparty systems; the U.S. Constitution; establishment of public policy – social and economic policy; the development of democratic states: U.S. domestic policy – challenges and responses, 1953 – 1973 and case studies in South Africa, France, Weimar Germany, Nigeria, Great Britain and North Ireland, Canada, Argentina. Students will study the following in depth the origins and nature of the Cold War; the development and impact of Cold War; and the end of the Cold War. Study will include the impact of historical events on all these areas and how it affected their relationships with each other and the rest of the world. In this course students will concentrate on the following themes: the method through which various groups and individuals throughout American history defined “progress;” how a coherent national identity was forged from the multiple backgrounds, interests, and experiences of the American people; the way historians use primary sources to construct meaning about the past; how historians construct logical arguments and effectively communicate them through speech and writing; and exploration of what history can (and cannot) teach us. This course is aligned with the NYS twelfth grade social studies requirement. Departmental midterms and IB assessments will be required of all students. External and internal IB assessments include three exam papers as well as a study report which is an historical investigation from any area of the syllabus. Students will be prepared to take IB exams in May of twelfth grade in addition to other departmental assessments. All students will complete a National History Day research project.

0216 ADVANCED PLACEMENT UNITED STATES GOV'T AND POLITICS (Level 6)**FULL-YEAR / DAILY / 1.0 CREDIT**

Recommended Criteria: successful completion of AP US History and Government with a final grade of 85 or above OR a final grade of 95 or above in US History and Government, teacher recommendation and approval by the Director of Social Studies

This course is designed to give students a critical perspective on government and politics in the United States. By learning specific concepts and analyzing case studies, students will become familiar with the various institutions, groups, beliefs and ideas that make up the United States political reality. Topics include: constitutional underpinnings, political beliefs and behaviors, political parties and interest groups, institutions and policy processes of national government and civil rights and civil liberties. This course may be taken to fulfill the 12th grade Social Studies requirement. Students are required to take the departmental midterm examination in January, Advanced Placement Exam in May, departmental final examination, complete 20 hours of community service and submit a reflective project. All students will complete a National History Day research project.

0213 AP MICROECONOMICS (Level 6)**FULL-YEAR / DAILY / 1.0 CREDIT**

In this full-year college level economics course, the purpose is to provide a thorough understanding of the principles of economics that apply to individual decision makers, both consumers and producers, within the larger economic system. It places primary emphasis on the nature and functions of product markets, and includes the study of factor markets and of the role of government in promoting greater efficiency and equity in the economy. The following topics will be covered: basic economic concepts, the nature and function of product markets, factor markets, market failure and the role of government. Students will be assessed using both multiple choice and free response questions. This course fulfills the NYS social studies requirement for economics. Students enrolled in the course will take a departmental midterm and final and will take the AP exam in May.

0217 ECONOMICS AND PERSONAL FINANCE (Level 3)**HALF-YEAR / DAILY / 0.5 CREDIT****0232 ECONOMICS AND PERSONAL FINANCE 2X****FULL-YEAR / ALTERNATING DAYS / 0.5 CREDIT****GRADES 10, 11, AND 12 (Requirements vary according to grade level)**

This course fulfills one-half of the New York State senior year social studies requirement. The course is designed to provide students with the knowledge and skills of basic economic forces and personal finance that will enable them to function as informed and economically literate citizens. A major emphasis will be on rational decision-making in economic areas. Key topics examined in this course are: introduction to economics and economic systems, microeconomics, macroeconomics, personal finance, individual responsibility and the economy, the United States and world economies. Assessments include tests, projects, quizzes and economic current events. At the conclusion of this course, students are required to take the departmental final exam, complete 10 hours of community service and submit a reflective project.

0218 PARTICIPATION IN GOVERNMENT (Level 3)**GRADE 12****HALF-YEAR / DAILY / 0.5 CREDIT**

This course fulfills one-half of the New York State senior year social studies requirement. Understanding how public policy is formulated and what one can do to become an effective citizen are among the major goals of this course. Therefore, the development of student participation in the processes of government is an intended outcome. Practical examples at the local-, state-, or national-level will be explored to illustrate the concepts studied. At the conclusion of this course, students are required to take the departmental final exam, complete 10 hours of community service and submit a reflective project.

ACADEMIC INTERVENTION SERVICES

0202R GLOBAL HISTORY I

0207R GLOBAL HISTORY II

0212R US HISTORY AND GOV'T

FULL-YEAR / ALTERNATING DAYS / NO CREDIT

This course meets on alternating days for the entire year, reinforcing the skills necessary to pass the NYS Regents examinations. Students will develop and strengthen skills through a variety of learning activities designed to parallel tasks on the Regents examination.

0219 [COLLEGE PSYCHOLOGY](#) (Level 5)

GRADES 11 AND 12: SYRACUSE UNIVERSITY PSY 205: 3.0 COLLEGE CREDITS

HALF-YEAR / DAILY / 0.5 CREDIT

This course is designed as a one semester offering in which the student may earn three credit hours from Syracuse University. It is an innovative course which provides instruction in the fundamental topics in psychology in addition to providing a degree of freedom for students to pursue individual topics of interest. The primary goals of the course include providing students with information regarding major areas of psychology such as learning, memory, cognition, development, personality and social psychology. Students will learn the basic principles, concepts, and research findings in psychology and will become acquainted with psychological research methods and procedures. Students will be presented with opportunities to discuss current topics, events, real-life experiences, and applications of psychological theories and research. Furthermore, students will learn the organizational and study skills important to succeed in college courses while also developing their oral and written communication of psychological knowledge.



0220 [COLLEGE SOCIOLOGY](#) (Level 5)

GRADES 11 AND 12: SYRACUSE UNIVERSITY SOC 101: 3.0 COLLEGE CREDITS

HALF-YEAR / DAILY / 0.5 CREDIT

College Sociology is a first-level university course sponsored by Syracuse University for high school juniors and seniors. Upon successful completion, students may earn 3.0 college credits that can be transferred to most colleges and universities. In this course, students receive an introduction to sociology, which is the study of society and social interaction. Much emphasis is placed on the concept of C. Wright Mills' sociological imagination, which explores the link between the self and society. The course is divided into five components: introduction to social theory, culture-groups and social structure, self and identity, social inequalities and social change. College-level reading assignments will be given for each component. Grading is based on writing assignments, annotations, and projects. A large part of the course consists of applying sociological ideas to students' lives within both oral and written analysis.



0221 CRIMINAL JUSTICE (Level 3)

HALF-YEAR / DAILY / 0.5 CREDIT

0221A CRIMINAL JUSTICE 2X (Level 3)

FULL-YEAR / ALTERNATING DAYS / 0.5 CREDIT

This half-year course will cover some of the causes of crimes, the rights of the accused and the problems of victims. The criminal justice system itself, which includes police, the courts and the prisons, will also be thoroughly explored.

0222 EVERYDAY LAW (Level 3)

HALF-YEAR / DAILY / 0.5 CREDIT

0222A EVERYDAY LAW 2X (Level 3)

FULL-YEAR / ALTERNATING DAYS / 0.5 CREDIT

Child abuse, marriage, divorce, renting a room or an apartment, getting injured on the job, and being sued due to an automobile accident are some areas where everyone should know about the law. This “street law” course will deal with noncriminal or civil law such as Family Law, Housing Law, Consumer Law, etc.

0226 HISTORY OF AMERICA THROUGH POP CULTURE (Level 3)

HALF-YEAR / DAILY / 0.5 CREDIT

0226A HISTORY OF AMERICA THROUGH POP CULTURE 2X (Level 3)

FULL-YEAR / ALTERNATING DAYS / 0.5 CREDIT

This course traces the origins of American popular culture, including music such as Rock and Roll and Hip Hop, fashion trends, television shows, movies, and fads from their early beginnings to their current inceptions. The impact of social and political events on these forms of popular culture and the way pop culture reflects the norms and values of each time period will be examined.

0227 HISTORY THROUGH FILM (Level 3)

HALF-YEAR / DAILY / 0.5 CREDIT

0227A HISTORY THROUGH FILM 2X (Level 3)

FULL-YEAR / ALTERNATING DAYS / 0.5 CREDIT

This course examines the prominent historical events, figures and issues in American history by examining works of historical fiction and documentary on film. The accuracy and possible biases of these films will be addressed, as well as the political and social climate of the time in which the film was made or the time period depicted.

Technology Education

0902 DESIGN AND DRAWING FOR PRODUCTION (Level 3)

FULL-YEAR / DAILY / 1.0 CREDIT

This course integrates the artistic elements of design with the drafting skills required to produce quality mechanical drawings. Using the tools of the draftsman, the student receives instruction to help her or him gain competence in drawing two- and three-view, section and isometric (3-dimensional) drawings. The students use these skills to design various products and then build their designs in the lab to see an actual full-size model. **This course fulfills the one-credit Art/Music requirement for high school graduation.**

0920 WORLD OF TECHNOLOGY (Level 3)

FULL-YEAR / DAILY / 1.0 CREDIT

This course is designed to provide students with a commencement-level introduction to technology. Hands-on learning experiences designed for the course emphasize problem solving and critical thinking utilizing acquired math and science skills in a technology context and real world application. **This course can be used for 1.0 credit of Math OR 1.0 credit of Science.**

0904 ARCHITECTURAL DRAWING (Level 3)

FULL-YEAR / DAILY / 1.0 CREDIT

This course will concern itself with the basic design and layout of a residential structure. Students will start with preliminary sketches of the floor plan of a house, which illustrates the arrangement of the rooms and the general appearance of the building. Using the tools of the architect, the student will develop floor plans and elevations from his or her sketches. Electrical and plumbing plans will be incorporated in the floor plan. Designing a house that fits the proposed construction budget with appropriate grouping of rooms, design elements and overall layout will be emphasized. Students will incorporate some of their designs onto a computer-aided drawing program. Students also research and study various architectural design styles.

0907 CAD (COMPUTER-AIDED DESIGN) (Level 3)

FULL-YEAR / DAILY / 1.0 CREDIT

This course teaches the student to use computers instead of pencil and paper to create drawings. Drawings can be made more rapidly and accurately and can be changed more readily with the use of a computer. Students will create mechanical drawings of products and structures on the computer screen and then print them on a plotter when the drawing is completed. The techniques learned in this course emulate those that are utilized by the industries that incorporate CAD. This course is recommended for any student interested in a drafting or engineering career since over 50 percent of all drawings are generated by CAD systems. As a culminating project students will design a product on the computer within the design specifications given by the instructor. KeyCreator, the software used in this course, is utilized by a number of engineering firms and is used by colleges which have CAD courses.

0917 MATERIALS PROCESSING I (Level 3)**HALF-YEAR / DAILY / 0.5 CREDIT**

This course is designed to teach students how to transform raw materials into functioning products that improve the quality of their day-to-day lives. All the products that we use, from our cell phones and eating utensils, to our backpacks and school supplies, all started off as some kind of raw material. This material processing class will show students not only the techniques to use tools, but how these tools can be used to process raw materials into functional products. The required projects for this course are a metal tool box, a wood mantel clock, knock hockey table and basketball shooter.

0919 MATERIALS PROCESSING II (Level 3)**HALF-YEAR / DAILY / 0.5 CREDIT****Prerequisite: Materials Processing I**

This course is very similar in nature to Materials Processing I, but the projects, tools and techniques that are used are more detailed and extensive. There will be three main projects required in this course working with wood, metal, and plastics as the raw materials. Some examples of projects include an LED flashlight, a checkerboard table, a functional wooden lamp and a treasure chest.. This class is for any student who wishes to challenge themselves in the world of industrial arts.

0914 [ROBOTICS I](#) (Level 3)**HALF-YEAR / DAILY / 0.5 CREDIT****0914A [ROBOTICS I](#) 2X (Level 3)****FULL-YEAR / ALTERNATING DAYS / 0.5 CREDIT**

The class is designed for students who enjoy hands-on, real-world application of knowledge. They will practice engineering and mathematical skills to gain firsthand experience in all aspects of robotic design. The curriculum is based on the physics concept that teaches students to apply science concepts to gain a competitive advantage in the academic, athletic and post-graduate arenas. Students enrolled in this course are encouraged to be a part of the FIRST Robotics team as a co-curricular activity.

**0915 ROBOTICS II (Level 3)****HALF-YEAR / DAILY / 0.5 CREDIT****Prerequisite Course: Robotics I**

This course is designed to be student-centered in order to provide greater depth and focus on programming skills, use of technical machinery in the material sciences and practice in analyzing structure/function relationships. The curriculum is based on the competitive physics concept that teaches students to apply science concepts to gain a competitive advantage in the academic and postgraduate arenas. In this second robotics course, students will learn how to use the Lego Mindstorms EV3 Robots to enhance their engineering skills. Students enrolled in this course are encouraged to be a part of the FIRST Robotics team as a co-curricular activity.

0481 IB DESIGN TECHNOLOGY SL (Level 6)**GRADES 11 AND 12****FULL-YEAR / DAILY / PLUS ALTERNATING DAY LAB / 1.0 CREDIT**

Design is the link between innovation and creativity! The design cycle will be applied to cutting-edge and in-depth technology and science topics. The topics include human factors, sustainability, material science and production, modeling techniques, innovation and classic design. In addition to the required IB Exams in May, students are required to complete a design project, which will be assessed on four criteria: analysis of a design opportunity, conceptual design, development of a detailed design, and testing and evaluation. This technology course fulfills the Group 4 Science requirement for IB diploma candidates. This course is also open to non-IB students.

World Languages

0517 HONORS GERMAN 1 ACCELERATED 17-18 (Level 4)

FULL-YEAR / DAILY / 1.0 CREDIT

Prerequisite: enrollment in or completion of another language sequence

This beginning language course is designed for students who have an interest in learning other languages and are currently enrolled in another language sequence. Because students have already acquired the skills needed to learn a second language, this course will move quickly through Checkpoint A of the NYS syllabus. Students will develop listening and speaking skills that will enable them to understand simple spoken German and engage in conversations in which they may talk about themselves, persuade someone to take a course of action and provide information or seek information about a variety of everyday topics. Reading skills at this level involve the interpretation of a variety of basic authentic materials (advertisements, tickets) and simple narratives. In writing, students learn to meet the purpose of a task (e.g., to provide or seek information) with appropriate vocabulary and structure at reasonable length. In addition, students acquire understanding and develop an appreciation of cultures other than their own. This course meets the NYS standards in languages other than English for Communication and Culture. Because students have already learned the skills needed to learn a second language, this course will move quickly through the Checkpoint A level of the NYS syllabus and proceed to Checkpoint B level course work. This course will culminate in the FLACS Checkpoint B Examination in German.

0501 SPANISH 1 (Level 3)

FULL-YEAR / DAILY / 1.0 CREDIT

Spanish 1 students complete the Checkpoint A level of the NYS syllabus in order to meet the initial graduation requirement of one world language credit. This credit can be earned by the end of grade 9 by passing the course. In addition, students are given the FLACS Checkpoint A Examination in June as an opportunity to earn the required LOTE credit. In level 1, students begin to develop listening and speaking skills that will enable them to understand simple spoken language and engage in conversations in which they may talk about themselves, persuade someone to take a course of action and provide information or seek information about a variety of everyday topics. Reading skills at this level involve the interpretation of a variety of basic authentic materials (advertisements, tickets) and simple narratives. In writing, students learn to meet the purpose of a task (e.g., to provide or seek information) with appropriate vocabulary and structure at reasonable length. In addition, students acquire understanding and develop an appreciation of cultures other than their own. This course meets the NYS Standards for Communication and Culture in languages other than English.

0510 FRENCH 2 (Level 3)

0518 GERMAN 2 (Level 3)

0503 SPANISH 2 (Level 3)

FULL-YEAR / DAILY / 1.0 CREDIT

Prerequisite: French 8, German 8, Spanish 8

In French 2, German 2 and Spanish 2, students begin Checkpoint B, which ends with the FLACS Checkpoint B Examination in French 3, German 3 and Spanish 3. Students will increase their listening and speaking skills through conversational topics that require more detail. Students' reading skills will be strengthened through reading for meaning and thematic selections. Student writing will become more task-oriented and will require organization, structure and a broader range of vocabulary. Students will broaden their understanding and appreciation of cultures other than their own. These courses meet the NYS standards for Communication and Culture.

0526 HONORS FRENCH 2 (Level 4)

0527 HONORS GERMAN 2 (Level 4)

0525 HONORS SPANISH 2 (Level 4)

FULL-YEAR / DAILY / 1.0 CREDIT

Prerequisite: French 8, German 8, Spanish 8

Recommended Criteria: consistent participation in the target language, thorough understanding of Middle School Level 1 grammar and vocabulary, final grade of 90 or greater

In French 2H, German 2H and Spanish 2H, students begin Checkpoint B, which ends with the FLACS Checkpoint B Examination in French 3/3H, German 3/3H and Spanish 3/3H. Students are selected for French 2H, German 2H and Spanish 2H on the recommendation of their respective world language teacher. Advanced skills are necessary to succeed in this class, as the content is studied on a more intensive level than in French 2, German 2 and Spanish 2. French 2H, German 2H and Spanish 2H will meet the needs and accommodate the abilities of honors-level students in an accelerated and enriched manner. Students will receive the necessary level of preparation required to help them meet with success in their post-Checkpoint B and pre-IB language courses.

0512 FRENCH 3 (Level 3)

0520 GERMAN 3 (Level 3)

0505 SPANISH 3 (Level 3)

FULL-YEAR / DAILY / 1.0 CREDIT

Prerequisite: French 2, German 2, Spanish 2

In French 3, German 3 and Spanish 3, students complete Checkpoint B. The FLACS Checkpoint B Examination is the final examination that awards credit towards the Regents Diploma with Advanced Designation. Students will continue to increase their listening and speaking skills through conversational topics that require more detail. Students' reading skills will continue to grow through more extensive reading for meaning and thematic selections. Student writing will continue to meet the requirements of the writing rubrics in meeting the purpose of the task, organization, structure, range of vocabulary and length. Students will continue to broaden their understanding and appreciation of cultures other than their own. These courses meet the NYS standards for Communication and Culture.

0511 HONORS FRENCH 3 (Level 4)

0519 HONORS GERMAN 3 (Level 4)

0504 HONORS SPANISH 3 (Level 4)

FULL-YEAR / DAILY / 1.0 CREDIT

Prerequisite: French 2, German 2, Spanish 2

Recommended Criteria: average of 90 or greater for all 4 quarters, ability to hold conversation, produce a written task of 100 -150 words, willingness to challenge themselves to become proficient

In French 3H, German 3H and Spanish 3H, students complete Checkpoint B. The FLACS Checkpoint B Examination is the final examination that awards credit towards the Regents Diploma with Advanced Designation. Students are selected for French 3H, German 3H and Spanish 3H on the recommendation of their respective world language teacher. Advanced language skills are necessary to succeed in this class, as the content is studied on a more intensive level than in French 3, German 3 and Spanish 3. French 3H, German 3H and Spanish 3H will meet the needs and accommodate the abilities of honors-level students in an accelerated and enriched manner. Students will receive the necessary level of preparation required to help them meet with success in their post-Checkpoint B and pre-IB language courses.

0514 FRENCH 4 (Level 4)

0522 GERMAN 4 (Level 4)

0507 SPANISH 4 (Level 4)

FULL-YEAR / DAILY / 1.0 Credit

Prerequisite: French 3, German 3, Spanish 3

At this level, students continue to advance their language skills in French, German and Spanish through the exploration of the literature, art, music, cinema, cuisine, geography and history of the countries where their language is spoken. Reading and discussion of a variety of literary forms (e.g., short stories, magazines, newspaper articles) and creative writing projects (e.g., producing a class newspaper or children's story books), will expand students' acquisition and use of language. Language instruction in the context of current and past cultural perspectives will enhance students' ongoing awareness and appreciation of the French, German and Spanish-speaking worlds.

0516 FRENCH 5 (Level 5)

0524 GERMAN 5 (Level 5)

0509 SPANISH 5 (Level 5)

FULL-YEAR / DAILY / 1.0 CREDIT

Prerequisite: French 4, German 4, Spanish 4

This advanced-level course offers students the opportunity to further enhance their language skills with a continued emphasis on the study of the culture of the countries where their language is spoken as well as an examination of issues and events facing the global community today. In this course, students will explore various media such as newspaper articles, literary selections and films. Students will be involved in guided research on a specific cultural project.

0531 IB FRENCH LANGUAGE B SL I (Level 6)

0533 IB GERMAN LANGUAGE B SL I (Level 6)

0529 IB SPANISH LANGUAGE B SL I (Level 6)

GRADE 11

FULL-YEAR / DAILY / 1.0 CREDIT

Prerequisite: French 3, German 3, Spanish 3

Recommended Criteria: final grade of 90 or greater, commitment to a two-year program, ability to hold conversation in the second language, produce a written task of 250-400 words, willingness to challenge themselves to become proficient in the second language

This course serves as the first year of the two-year of IB Language B SL course. Students will be expected to develop fluency in writing, speaking and understanding in a range of situations and contexts. Both oral and written communication skills will be highly emphasized at this level through increased reading, writing, and discussions with a focus on themes including social relations, communication and media, health, global issues, and customs and traditions continue to develop the student's language skills. Additionally, students should be able to demonstrate an awareness and appreciation of different cultural perspectives of the countries where the language is spoken. These themes will be explored through the use of videos, literary pieces as well as current magazines, website and newspapers.

0535 IB FRENCH LANGUAGE B HL I (Level 6)

0536 IB GERMAN LANGUAGE B HL I (Level 6)

0537 IB SPANISH LANGUAGE B HL I (Level 6)

GRADE 11

FULL-YEAR / DAILY / 1.0 CREDIT

Prerequisite: French 3, German 3, Spanish 3

Recommended Criteria: final grade 90 or greater, commitment to a two-year program, ability to hold conversation in the second language, produce a written task of: 500-600 words, willingness to challenge themselves to become proficient in the second language

The HL IB Language B course differs from the IB SL Language B course in requiring students to read and produce writing with greater word counts. In addition to the increased word counts, a literature component is included in the curriculum. Students will be required to read two works of literature originally written in the target language and demonstrate ability to demonstrate comprehension of these texts in oral discussions and in writing. As in the IB SL Language B course, students will be expected to develop fluency in writing, speaking and understanding in a range of situations and context. Both oral and written communication skills will be highly emphasized at this level through increased reading, writing, and discussions with a focus on themes including social relations, communication and media, health, global issues, and customs and traditions continue to develop the student's language skills. Additionally, students should be able to demonstrate an awareness and appreciation of different cultural perspectives of the countries where the language is spoken. These themes will be explored through the use of videos, literary pieces as well as current magazines, websites and newspapers.

0532 IB FRENCH LANGUAGE B SL II (Level 6)

0534 IB GERMAN LANGUAGE B SL II (Level 6)

0530 IB SPANISH LANGUAGE B SL II (Level 6)

GRADE 12

FULL-YEAR / DAILY / 1.0 CREDIT

Prerequisite: IB Language B SL I

Recommended Criteria: final Grade 90 or greater, commitment to a two-year program, ability to hold conversation in the second language, produce a written task of: 250-400 words, willingness to challenge themselves to become proficient in the second language

This course serves as the second year of the two-year of IB Language B SL course. Students will continue to improve fluency in writing, speaking and understanding in a range of situations and contexts. Both oral and written communication skills will continue to be highly emphasized through increased reading, writing and discussions with a continuing focus on themes including social relations, communication and media, health, global issues and customs and traditions continue to develop the student's language skills. Additionally, students will demonstrate an awareness and appreciation of different cultural perspectives of the countries where the language is spoken. Students will be required to demonstrate their communication skills in the language and their intercultural understanding as related to the IB themes studied during the course of the two-year program as they participate in the IB external and internal assessments, which will be administered throughout this second year of the IB program.

0541 IB FRENCH LANGUAGE B HL II (Level 6)

0538 IB GERMAN LANGUAGE B HL II (Level 6)

0539 IB SPANISH LANGUAGE B HL II (Level 6)

GRADE 12

FULL-YEAR / DAILY / 1.0 CREDIT

Prerequisite: IB Language B HL I

Recommended Criteria: final grade of 90 or greater, commitment to a two-year program, ability to hold conversation in the second language, produce a written task of 500-600 words, willingness to challenge themselves to become proficient in the second language

This course serves as the second year of the two-year IB Language B HL course. Students will continue to read texts and produce writing with greater word counts. Students will be required to read two works of literature originally written in the target language and demonstrate ability to demonstrate comprehension of these texts in oral discussions and in writing. Students will be expected to develop fluency in writing, speaking and understanding in a range of situations and contexts. Both oral and written communication skills will be highly emphasized at this level through increased reading, writing, and discussions with a focus on themes including social relations, communication and media, health, global issues, and customs and traditions continue to develop the student's language skills. Students will be required to demonstrate their communication skills in the language and their intercultural understanding as related to the IB themes studied during the course of the two-year program as they participate in the IB external and internal assessments which will be administered throughout this second year of the IB program.

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