

High School Planner



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GENERAL INFORMATION

The school counseling program is designed to ensure that students benefit from the educational program and implement career plans that will assist them in their personal and social development. It is the responsibility of all stakeholders involved in a student's educational journey to understand the requirements for graduation, whether the student earns a Regents Diploma, Regents with Honors, Regents with Advanced Designation, Regents with Advanced Designation (Mastery in Math, or Science), or Regents with Advanced Designation with Honors, Local Diploma, or Local Diploma with Safety Net Options, or with a Career and Technical Education Endorsement. School counselors review graduation requirements with students annually, and school counselors at each school are available to assist you. Please work closely with your child's school counselor in making academic decisions regarding your child. To determine the graduation requirements for your child, you must consider the type of diploma sought.

DEPARTMENT OF STUDENT REGISTRATION

The Department of Student Registration serves as the entry point to the Syracuse City School District. All students new to the District or returning to the District must be processed through Student Registration. Grade placement is determined by transfer grades and/or transcript, as well as, language assessment and placement process for English language learners who are new to the District. Please remember that schools do not register students on site.

Department of Student Registration

1005 W. Fayette St

4th Floor

Syracuse, NY 13204

315-435-4545

Hours of Operation: Monday-Friday 8:30 AM-4:00 PM

HIGH SCHOOL CHOICE PROGRAM

The Syracuse City School District's High School Choice Program is a student-driven process that empowers parents by enabling them to make the best possible choice for their child's education. Families are encouraged to apply for up to two Career and Technical Education (CTE), Pathways in Technology Early College High School(P-TECH) and/or Specialized academic programs offered at the city's five high schools.

The High School Choice program targets students who are transitioning from 8th to 9th grade. There are limited opportunities available for students entering 10th grade as well. These

options are based on seat availability and are made available through recommendations provided by the Career and Technical Education (CTE) Office. *It is important to note that students entering a CTE Program at 10th grade may not be eligible to obtain a CTE Endorsement.* Here is a list of programs offered for the 2021-22 SY:

CTE Pathways		P-TECH Pathways	Other Programs
<ul style="list-style-type: none"> • Automotive Technology • Barbering • Business Technology • Computer Forensics • Construction Technology • Cosmetology • Culinary Arts • Cybersecurity • Electrical Trades • Emergency Medical Technician • Fire/Rescue • Forensic Science • Geospatial Technology • Health Professions • Law Enforcement • Manufacturing Technology - Pre-Apprenticeship 	<ul style="list-style-type: none"> • Media Communications • Medical Assisting • Natural Resources • Urban Teaching Preparation • Welding 	<ul style="list-style-type: none"> • Electrical Technology • Mechanical Technology • Clinical Laboratory Technician • Health Professions • Computer Information Systems 	<ul style="list-style-type: none"> • Biotechnology • International Baccalaureate (IB) • Navy JROTC • Promising Futures (not in booklet)

HIGH SCHOOL TRANSFER PROGRAM (Corcoran, Henninger or Nottingham only)

The High School Transfer program provides students and parents/guardians the opportunity to request a transfer to one of our three comprehensive high schools. The criteria for High School Transfers include the following in priority order:

1. Home School and Join Sibling Transfer – *a transfer to their child’s home school (the school to which a student is assigned based on the current/physical home address listed in School Tool), where a sibling (brother, sister or other child residing in the same household) is enrolled and will remain for at least a year.*
2. Join Sibling Transfer Only - *a transfer to join a sibling (brother, sister or other child residing in the same household) who is enrolled in the school and will remain for at least one year.*
3. Home School Transfer Only – *a transfer to their child’s home school (the school to which a student is assigned based on the current/physical home address listed in School Tool).*

APPLICATION SUBMISSION and SELECTION PROCESS

The High School Choice and Transfer applications are submitted via an online process. The online process usually opens midwinter. Currently, all 8th graders are required to complete the

High School Choice and Transfer survey. The High School Transfer application submission process for students entering grades 10 and 11 is different than incoming freshmen. The High School Choice and Transfer survey and application links can be found by visiting www.syracusecityschools.com/registration during the open enrollment timeline .

PLEASE NOTE that submission of an application does not guarantee placement. Requests to enroll in a career, technical or specialized program are also **based on space availability**, and the student successfully participating in an interview and being recommended by the interview committee to enter the lottery. **Late survey submissions (existing 8th graders) or online transfer applications (existing 9th -10th graders) will not be accepted.**

To ensure a fair and equitable placement process, the Syracuse City School District will conduct a lottery when the number of students who applied to a high school choice program or who meet the transfer criteria exceeds the number of seats available. Each eligible student will be entered into our Smart Choice Lottery. Students who are entered into the lottery, but not selected will be assigned to the waitlist for the upcoming school year and required to attend their feeder or assigned high school.

IMPORTANT NOTICE:

- Students are required to apply to a Career Technical Education, P-TECH or Specialized Program even if the program of interest is located in their feeder or neighborhood school. If they are not interested in applying to a career technical or specialized program they will be assigned to their feeder or home school, if applicable.
- **All 8th graders currently enrolled in Frazer and Syracuse STEM at Blodgett or students who are enrolled in ELMS, Grant, McCarthy @ Beard, OASIS, or Syracuse Latin who reside in the West or Fowler quadrant only are REQUIRED** to participate in the high school choice or transfer process, because they do not have a feeder high school.
- Please visit <http://www.syracusecityschools.com/registration> for additional updates.

GRADUATION REQUIREMENTS

The New York State Education Department establishes graduation requirements for all students in public schools. The Syracuse City School District bases its requirements on the New York State Education Department requirements. To receive a high school diploma, students must meet the minimum requirements for the Regents Diploma, Regents with Honors, Regents with Advanced Designation, Regents with Advanced Designation (Mastery in Math, or Science), or Regents with Advanced Designation with Honors, Local Diploma, or

Local Diploma with Safety Net Options, or with a Career and Technical Education Endorsement. These diploma programs are designed to ensure that students have the skills and knowledge necessary to continue educational options after high school or to enter the world of work.

Through *school choice programs* and elective choices, students have the opportunity to design a course of study that best prepares them for different goals. Students are encouraged to consider both educational and career goals in selecting courses. Except for the sequential electives that are required for Career and Technical Programs and an additional Language other than English or Career and Technical Education course, the requirements for a student to earn a diploma shall be those in effect when that student enters the ninth grade for the first time. When students below the ninth grade successfully complete courses offered for credit in grades nine and ten, credit is counted toward meeting the standard units required for graduation. In order to graduate from high school, students must pass the course and achieve a passing score on the end-of-course Regents assessment for that course or an identified substitute test as approved by the New York State Education Department.

DEFINITION

Standard Unit of Credit

The standard unit of credit for graduation is based on a minimum of 5.5 daily hours of instruction and successful completion of the requirements of the course within 180 days of school. (*NYHEN Article 65, Part 1: Compulsory education*). A semester course receives one-half credit. Successful completion of the requirements of the course, and a passing score on the end-of-course Regents test for that course is necessary for graduation. A state-approved substitute test may be used for specified Regents tests. (*See the Substitute Tests section in Appendix A.*)

GRADUATION REQUIREMENTS AND DIPLOMA OPTIONS

The New York Board of Regents adopted the following graduation requirements for students entering high for the Regents Diploma, Regents with Advanced Designation and the Local Diploma with CDOS Commencement Credential. A minimum passing score of 65% is required on all Regents assessments:

	Minimum Number of Credits
English	4
Social Studies <i>Distributed as follows:</i> <i>US. History (1)</i> <i>Global History and Geography (2)</i> <i>Active Citizenship (1)</i>	4
Science <i>Distributed as follows:</i> <i>Life Science (1)</i> <i>Physical Science (1)</i> <i>Life Science or Physical Science (1)</i>	3
Mathematics	3
Languages Other Than English (LOTE)	1*
Visual Art, Music, Dance, and/or Theater	1
Physical Education (participation each semester)	2
Health	.5
Electives	3.5
Total	22

**Students with a disability may be excused from the requirement for 1 unit of credit in LOTE if so indicated on their IEP, but they must still earn 22 units of credit to graduate.*

Examination Requirements:

	Regents Diploma for All Students		Regents Diploma via Appeal for All Students		Local Diploma via Appeal for All Students	
REGENTS EXAM or passing score on a Department approved alternative	# of Exams	Passing Score	# of Exams	Passing Score	# of Exams	Passing Score
English Language Arts (ELA)	1	65	1	1 Regents exam with a score of 60-64 for which an appeal has been granted by the district and all remaining regents exams with a score of 65 or above	1	2 Regents exams with a score of 60-64 for which appeals have been granted by the district and all remaining regents exams with a score of 65 or above
Math	1	65	1		1	
Science	1	65	1		1	
Social Studies	1	65	1		1	
Pathway	1 or CDOS	65	1 or CDOS		1 or CDOS	
Compensatory Safety Net	Non-Applicable		Non-Applicable		Non-Applicable	
	Regents Diploma for Students with Disability		Regents Diploma Via Appeal for English Language Learners			
Regents Exam or passing score on a Department approved alternative	# of Exams	Passing Score	# of Exams	Passing Score		

English Language Arts (ELA)	1	55*^	1	Either the ELA Regents exam with a score of 55-59 for which an appeal has been granted by the district, and all remaining Regents exams with a score of 65 or above, OR 1 Regents exam with a score of 60-64 and the ELA Regents with a score of 55-59 for which appeals have been granted for both by the district, and the remaining Regents exams with a score of 65 or above ~
Math		55*^	1	
Science	1	55*^	1	
Social Studies	1	55*^	1	
Pathway	1 or CDOS	55*^ if Regents Exam	1 or CDOS	
Compensatory Safety Net	Scores of 45-54 on any required Regents exam (except ELA and Mathematics) can be compensated by a score of 65 or above on another required Regents exam including ELA and Mathematics			Non-Applicable

**A student with a disability may appeal scores between 52 and 54 on up to two Regents examinations in any discipline and graduate with the local diploma.*

^In the event a student with a disability is unable to attain a passing score on any Regents examination, the student may be eligible for a Superintendent Determination of a local diploma.

~English Language Learners seeking an appeal for a score of 55-59 on the ELA Regents Exam are only eligible if they entered the United States in grade 9 or after and were classified as an English Language Learner when they took the test the second time.

Pathways:

A student must either complete all the requirements for the CDOS Commencement Credential at <http://www.p12.nysed.gov/specialed/publications/2016-memos/cdos-graduation-pathway-option.html>; or

- Pass an additional math Regents examination in a different course or Department Approved Alternative; or
- Pass an additional science Regents examination in a different course or Department Approved Alternative; or
- Pass an additional social studies Regents examination in a different course or Department Approved Alternative; or
- Pass an additional English assessment in a different course selected from the Department Approved Alternative list; or
- Pass a Department approved CTE pathway assessment, following successful completion of an approved CTE program; or
- Pass a Department approved pathway assessment in the Arts; or
- Pass a Department approved pathway assessment in a Language other than English (LOTE)

See Multiple Pathways at: <http://www.p12.nysed.gov/ciai/multiple-pathways/>

See Department Approved Alternatives at

<http://www.p12.nysed.gov/assessment/hsgen/archive/list.pdf>

Appeals:

Appeals are subject to local district approval. More information on the appeal to graduate with a lower score on a Regents examination can be found at

<http://www.p12.nysed.gov/ciai/gradreq/Documents/CurrentAppealForm.pdf>

INFORMATION ON AN APPEAL TO GRADUATE WITH A LOWER SCORE ON A REGENTS EXAMINATION

Beginning with students entering grade 9 in 2005, all students who have taken and passed certain courses in preparation to take a Regents examination and have a 65 course average but whose highest score on the Regents assessment is below but within three points of the 65 passing score (62-64) may appeal to graduate with a local or Regents diploma using this lower score. Students who are granted one appeal from their local school district under this provision shall earn a Regents diploma. Students who are granted two appeals under this provision **shall earn a local diploma**. Through this appeal, the student seeks a waiver of the graduation assessment requirement in this subject area. For more information see:

<http://www.p12.nysed.gov/ciai/gradreq/CurrentAppealForm.pdf>

The low pass (55-64) option for general education students to earn a local diploma has been phased out and students who entered high school in 2008 and thereafter no longer have access to this option. There may still be students in the K-12 system that entered grade 9 in 2007 or earlier and still have access to this option.

Special Endorsements:

Honors: A student earns a computed average of at least 90 on the Regents examinations applicable to either a Regents diploma or a Regents diploma with advanced designation. No more than 2 Department approved alternatives can be substituted for Regents examinations and the locally developed Checkpoint B LOTE examination is not included in the calculation.

Mastery in Math and/or Science: A student meets all the requirements for a Regents Diploma with Advanced Designation AND earns at score of 85 or better on 3 math Regents examinations and/or 3 science Regents examinations.

Technical Endorsement: A student meets the requirements for either a local diploma, a Regents diploma or a Regents diploma with advanced designation AND successfully completes a Department approved CTE program including the 3 part technical assessment

Transition to the Common Core Regents Assessments:

ELA: Students who enter grade 9 in 2013 and thereafter must pass the Regents examination in ELA Common Core in order to meet the diploma requirements.

Mathematics: In 2013 and thereafter any student, regardless of grade level or cohort who begins their first commencement level course in mathematics must be provided with instruction aligned with the NYS P-12 Common Core Learning Standards for Mathematics and take the corresponding Common Core Regents examination. More information can be found at <http://www.p12.nysed.gov/assessment/commoncore/transitionccregents1113rev.pdf>

Students with disabilities who entered grade 9 prior to September 2011:

Students with disabilities who enter grade 9 prior to the 11-12 school year who fail one or more Regents examinations may take the corresponding Regents Competency Test (RCT) in order to meet the assessment requirements. This option may not be used in conjunction with the Compensatory Safety Net Option.

Languages other than English (LOTE) exempt students:

Students with a disability may be excused from the requirement from the required units of credit in LOTE if so indicated on the IEP but must still earn 22 units of credit to graduate. A LOTE exempt student who seeks a Regents diploma with advanced designation, does NOT have to complete the 5 unit sequence in the Arts or CTE in lieu of LOTE in order to meet the assessment requirements for the Advanced Diploma.

For more information about other Regents diploma options visit:
<http://www.p12.nysed.gov/part100/pages/1005.html#regentsdiploma>

Regent with Advanced Designation

Depending on the pathway a student chooses, the Regents diploma with advanced designation assessment requirements may be met in a multiple ways. Students seeking the Regents diploma with advanced designation may choose from the following assessment options:

Traditional Combination	ELA, Global History and Geography, US History and Government, 3 mathematics, 2 science, (1 must be life science and 1 must be physical science) = 8 Assessments. In addition the student must choose either 2 additional credits in LOTE and the locally developed Checkpoint B LOTE Exam OR a 5 unit sequence in the Arts or CTE
Pathway Combination (other than STEM)	ELA, 1 social studies, 3 math, 2 science (1 life science, 1 physical science), 1 Pathway (other than science or math) or complete the requirements for the CDOS Commencement Credential = 7 (+CDOS) or 8 assessments. In addition, the student must choose either 2 additional credits in LOTE and the locally developed Checkpoint B LOTE Exam OR a 5-unit sequence in the arts or CTE
STEM (Mathematics) Pathway Combination:	ELA, 1 social studies, 4 math, 2 Science (1 must be life science and 1 must be physical science) = 8 Assessments In addition the student must choose either 2 additional credits in LOTE and the locally developed Checkpoint B LOTE Exam or a 5 unit sequence in the Arts or CTE
STEM (Science) Pathway Combination:	ELA, 1 social studies, 3 math, 3 science (1 must be life science and 1 must be physical science) = 8 Assessments In addition the student must choose either 2 additional credits in LOTE and the locally developed Checkpoint B LOTE Exam OR a 5 unit sequence in the Arts or CTE

*A student with a disability may appeal scores between 52 and 54 on up to two Regents examinations in any discipline and graduate with the local diploma. See <http://www.p12.nysed.gov/ciai/gradreq/CurrentAppealForm.pdf>

^In the event a student with a disability is unable to attain a passing score on this examination the student may seek a Superintendent's Determination of a local diploma. See <http://www.p12.nysed.gov/specialed/publications/superintendent-determination-of-graduation-with-a-local-diploma.htm>

Local Diploma

A Local Diploma is offered to students with disabilities with an individualized education program or section 504 Accommodation Plan, and all students through appeal who have passed three required Regents exams with a score of 65 or better and two Regents exams with a score of 62-64 for which an appeal is granted by the local district *per Commissioner's Regulation 100.5(d)(7)*. There are also options for students with disabilities and English language learners.

Non-Diploma High School Exiting Credentials

Students with disabilities who complete the requirements of their Individualized Education program (IEP) and participate in the New York State Alternative Assessment (NYSAA) are awarded the Skills and Achievement Commencement Credential or the Career Development and Occupational Students (CDOS) Commencement Credential.

TEST REQUIREMENTS

In addition to course requirements, the New York Board of Regents has prescribed testing standards for graduation from high school to ensure students have mastered the skills that are necessary for success in school and preparation for life.

Students **must** take all applicable end-of-course New York Board of Regents assessments following course instruction. Students who successfully complete a course and who achieve a passing score on the end-of-course Regents assessment or a state approved substitute test for that course will be one step closer to their graduation requirements. All students enrolled in a course that has a Regents assessment **must** take the test even if they have met their Regents requirement for that subject area.

English	Mathematics	Science	Social Studies
English	CC Algebra 1 CC Algebra 2 CC Geometry	Chemistry Earth Science Living Environment Physics	Global History & Geography US History & Government

TESTING ACCOMMODATIONS

Testing accommodations may be available to students with disabilities who have IEPs, Section 504 plans or students with limited English proficiency. Details of testing accommodations for the Regents assessments are available at each high school.

TRANSFER STUDENTS

Students who enter a registered New York State high school for the first time in grade 11 in the 2002-2003 school year and thereafter, other than those students who have received home instruction *pursuant to section 100.10 of this Part* in New York State or who have been enrolled in a registered or non-registered public or nonpublic New York State high school, in order to receive a high school diploma must pass the Regents Comprehensive Examination in English, a Regents examination in mathematics, a Regents examination in United States history and government, and a Regents examination in science, or approved alternatives. The principal may exempt such student from the requirement for the Regents examination in global history and geography ordinarily taken and passed before the date of the student's entry.

Students who enter a registered New York State high school for the first time in grade 12 in the 2004-2005 school year and thereafter, other than those students who have received home instruction *pursuant to section 100.10 of this Part* in New York State or who have been enrolled in a registered or non-registered public or nonpublic New York State high school, in order to receive a high school diploma must pass the Regents Comprehensive Examination in English, a Regents examination in mathematics, and a Regents examination in United States history and government, or approved alternatives. The principal may exempt such student from the requirement for the Regents examination in science and the Regents examination in global history and geography ordinarily taken and passed before the date of the student's entry.

Transfer students who are exempted from taking specific State assessments shall have their transcript and permanent records so annotated. For more information see:

<http://www.p12.nysed.gov/part100/pages/1005.html#transCredit>

Other General Requirements for a Regents or a Local High School Diploma

The State learning standards in technology may be met either through a course in technology education or through an integrated course combining technology with mathematics and/or science. A commencement-level course in technology education may be used as the third unit of credit in science or mathematics but not both.

The learning standards for parenting may be met either through a separate course in parenting or through integration in a course in health or family and consumer sciences.

GRADING SCALE

The chart below indicates the numerical scale approved by the Board of Education for use in the Syracuse City School District. The grading system is numerical with a passing grade of 65. All credit-bearing classes are included in the class grade point average (GPA) and rank computation. Class rank is a calculated summary of a student's academic record compared to those of other students in the same class.

GRADE	RANGE	VALUE
A	90 TO 100	4.0
B	80 TO 89	3.0
C	70 TO 79	2.0
D	60 TO 69	1.0
F	59 and BELOW	0.0

CLASS RANK

SCSD School Board Policy, 4741 states, the Board of Education recognizes its responsibility to determine class rank and designate student honors such as class valedictorian and salutatorian. The following guidelines are to be used when computing class rank for high school seniors:

1. Rank all final marks for grades 9, 10, 11, and summer school.
2. College level courses offered in high school (AP, IBO, SUPA, OCC, ESF, etc.) will be weighted at one and one tenth (1.1) times regular high school courses for the purpose of determining cumulative grade point average for class rank, provided that all course requirements are completed including attempting any examination associated with the course.
3. Weighted by units -- e.g., 1 X 1/4 unit; 2 X 1/2 unit; 4 X 1 unit
4. Rank by Decile (10% of class -- decline)
5. Reports - Alpha order or Deciles (rank order)
6. Each grade given for each unit whether earned at the middle school or high school level, will be used and given equal weighting in computing the final class ranking.

7. The first draft of the class ranking is sent to the high schools by September 30 of each year.
8. To identify salutatorian and valedictorian, the top ten ranking students should be re-computed immediately after the second marking period of the senior year.

HOMEBOUND SERVICES

The Homebound Program aims to serve the students and families registered in the Syracuse City School District needs by providing home or community based instruction who are unable to attend school. In exception to the rule above are students registered to a private school who reside in district.

Homebound services are divided into four areas. Medical Homebound, "Operation School" Homebound, Disciplinary Placed Homebound and Approved Out of District Homebound. For more information on Homebound Services, please contact Student Support Services at 435-6350

HIGH SCHOOL CURRICULUM

GENERAL INFORMATION

The information in this guide is designed to help students and parents with the selection of courses for ninth through twelfth grades. Students should study this publication and consult with their parents, school counselors, and teachers in planning their individual program of study. School counselors can help with planning by reviewing test scores and records of past achievements and by discussing current interests and long-term goals. School counselors also have up-to-date information available about various training programs, schools, colleges, universities, and employment possibilities.

UNIT OF STUDY

180 minutes of instruction per week throughout the school year, or the equivalent (*NYSED/P-12/Part 100 Regulations/100.1 Definitions*).

UNIT OF CREDIT

Credits are earned by:

1. the mastery of the learning outcomes set forth in a New York State-developed or locally developed syllabus for a given high school subject, after a student has had the opportunity to complete a unit of study in the given subject matter area; or
2. A passing score of at least 85 percent or its equivalent on a department-approved *examination* in a given high school subject without the completion of a unit of study, and the successful completion of either an oral examination or a special project {*section 100.5(d)(1)*}

ACADEMIC YEAR

The regular academic year is at least 180 days, divided into two semesters. Courses are generally one year in length, and students receive a final grade and one standard unit of credit at the end of the school year for each course successfully completed. Some courses, however, are individually designed for one semester only. A one-semester course receives one-half credit.

FULL DAY OF SCHOOL

The daily sessions for pupils in grades seven through 12 shall be a minimum of five and one-half hours including time spent by students in actual instructional or supervised study activities, exclusive of time allowed for lunch, and including hourly units of time spent by all teachers authorized by *section 3604(8) of the Education Law*.

SCHOOL DAY

The high school day begins at 7:50 am and ends at 2:26 pm. There are seven 48 minute content-related periods of instruction per day. Lunch consists of two to three periods a day (depending upon the school), outside of the seven content-related periods.

ACCESS TO COURSES

Courses are offered at each high school based on student selection and interest. Therefore, all courses may not be offered at each site. School Counselors will work very closely with students and parents to develop high school plans where suitable replacements can be made for courses not offered.

COURSE REGISTRATION

Courses listed will be included in the curriculum for the upcoming school year if there is sufficient enrollment and available staff. Grade levels listed for courses indicate the grade(s) in which the course is normally taken. All students will be expected to maintain the full-day schedule of classes required to meet the minimum standards necessary for graduation and New York Board Education Department regulations.

PLACEMENT/PROMOTION PROCEDURE

Recommendations concerning instructional placement of students are the responsibility of the teacher and other professional staff directly involved with the students. The final decision concerning placement, however, rests with the principal. Promotion at the high school level is based on the guidelines listed:

- Students who are promoted from grade 8 will be placed in grade 9.
- Students in high school progress toward graduation on a course by-course basis. Students take courses based upon academic performance, academic needs, graduation requirements, and previous credits earned.
- Students **MUST** successfully pass a course with a 65 or above in order to earn the necessary credit needed to meet graduation requirements.
- Graduation requirements for students shall be those in effect at the time the student entered the ninth grade for the first time.
- High School enrollment status will be based on SED requirements for collecting and reporting student enrollment and achievement data by entry year cohort *SCSD School Board Policy, 7210-R*:

22 Units Required for Graduation

Cohort Year 2	5.5 Units
5.5 Units including	
1 Unit	English
1 Unit	Social Studies
.5 Unit	Physical Education

Cohort Year 3	11 Units
11 units, including	
2 units	English
2 units	Social Studies
1 unit	Physical Education
1 unit	Math
1 unit	Science

Cohort Year 4	16.5 Units
16.5 units, including	
3 units	English
3 units	Social Studies
1.5 units	Physical Education
2 units	Math
2 units	Science

SUMMER SCHOOL PROGRAM

The high school summer program provides for credit courses to be taken in order for students to accelerate their program of study or to repeat courses not successfully completed during the regular school year. All course offerings are subject to having sufficient enrollment and certified teaching staff. All students taking a summer school course that requires an end-of-course Regents assessment must take the Regents test scheduled during summer school, unless the student has already passed the test. Students who have not passed a state assessment may be required to enroll in an available summer remediation program.

WEIGHTED CREDIT

College level courses offered in high school (AP, IBO, SUPA, OCC, ESF, Dual Credit CTE Course, etc.) will be weighted at one and one tenth (1.1) times regular high school courses for the purpose of determining cumulative grade point average for class rank, provided that all course requirements are

completed including attempting any examination associated with the course. Students must attempt examinations associated with college level courses (AP, IBO) to have the course(s) designated on their transcripts. *SCSD School Board Policy, 7210 and 7210R*

OTHER COURSE OPPORTUNITIES

Currently, Syracuse City School District offers 15 Advanced Placement and over 30 Dual Enrollment courses throughout its five comprehensive high schools. Corcoran High School is the home to the International Baccalaureate Programme; and in addition, the school district is a site for Project Lead the Way. PLTW offers five courses through this STEM-based initiative. These programs offer students an opportunity to take advantage of rigorous college level curriculum taught at the high school level.

ADVANCED PLACEMENT (AP)



Advanced Placement is a College Board program that offers students the opportunity to take college-level courses while they are enrolled in high school. Students have the opportunity to learn a subject in greater depth, develop analytical reasoning skills, and develop study skills necessary for success at the college level. All high schools in Syracuse City School District participate in the Advanced Placement program. Students and parents may contact the guidance department of the respective high school to obtain additional information and a list of the AP courses that are offered. Parents are strongly encouraged to assist their student with AP course selections.

AP teachers are available to answer course content and requirement questions. The College Board also publishes a booklet, *Advanced Placement Course Description*, for each course. This booklet describes the content of the AP course and provides sample examination questions. Additional information is available at www.collegeboard.org.

Students may gain advanced standing and/or earn college credit through their performance on the Advanced Placement examinations that are given each year in May. Students registering for AP courses should review their selections with the school counselor to be sure the proper credit will be awarded. A limited number of AP courses serve as replacements for high school courses. All AP examinations (except Studio Art and Music Theory) contain both multiple choice and free response questions that require essay writing and problem solving. In Studio Art, students submit portfolios of their work instead of taking an exam. In administering the AP program, the following guidelines have been established:

1. Any student should be afforded the opportunity to take an AP class without having to make application. The College Board does offer student selection guidelines related to standardized test scores and prerequisite courses.
2. AP courses prepare students to take the AP examinations in the spring. Students are encouraged to take the AP exam. The exams serve as a nationally accepted standard for rigorous college level courses.
3. Funds may be made available to qualified students enrolled in an AP course who wish to take the AP examination and need financial assistance with the examination fee.
4. Students are responsible for verifying granting of college credit for successful completion of any course with the colleges or universities they choose to attend. Some information on a school's AP credit policy can be found at <http://collegesearch.collegeboard.com/apcreditpolicy/index.jsp>.
5. Some AP courses may require the completion of summer assignments.

Advanced Placement Examinations

Advanced Placement examinations are offered in the following subjects:

Art

History of Art
Studio Art – Drawing, 2-D Design, or 3-D Design

Language Arts

English Language and Composition
English Literature and Composition

Mathematics

Calculus AB
Calculus BC
Computer Science A
Statistics

Music

Music Theory

Science

Biology
Chemistry
Environmental Science
Physics 1
Physics C (Mechanics)
Physics C (Electricity and Magnetism)

Social Studies

European History
Human Geography
Comparative Government
Psychology
United States Government and Politics
United States History
World History

DUAL ENROLLMENT

In the Dual Enrollment Program, students may take courses that meet requirements for high school graduation while simultaneously earning college credit. Grades are awarded according to the policies of the college, and credit earned for the courses taken may sometimes be transferred to other public colleges in New York. Students are responsible for verifying granting of college credit for successful completion of any course with the colleges or universities they choose to attend. Some dual enrollment courses will be offered during the regular school day.

Admission Requirements

Dual enrollment applicants must:

- Complete the student application process,
- Be prepared for demands of a college course,
- Complete the required college application materials,
- Take required placement tests prior to admission in a course,
- Meet college and university prerequisites for course enrollment, and

Tuition Costs

Tuition costs are set by the college and are required for courses offered. Currently, Syracuse City School District will absorb the cost for those with tuition and fees.

Credit Awarded

College credit will be awarded to students on a semester basis upon successful completion of a semester of work. Three semester hours of college credit will be equivalent to one high school standard credit and one semester hours will be equivalent to one-half standard credit. In the case of lab sciences, eight semester hours are equal to a high school standard credit. The college course grade will be used in computing the student's high school grade point average. The grades earned for dual enrollment courses are weighted. Please note that the credit does not automatically transfer to other schools and universities, and the student is responsible for verifying the policies and practices of the college or university of his/her choice before seeking acceptance. Additional information may be obtained from the guidance office at your school. Dual Enrollment agreements have been established with the following institutions of higher education:

ONONDAGA COMMUNITY COLLEGE - COLLEGE CREDIT NOW

<http://www.sunyocc.edu/index.aspx?menu=870&id=5664>

The Onondaga College Credit Now (CCN) Program allows high school students to gain a head start on college by earning college credit for select Onondaga courses that are offered by their high school at NO COST. The courses are delivered at their high school as part of their normal school day, and are taught by qualified high school teachers. Courses transfer to many other colleges and universities across NYS and throughout the country.

CCN students are officially students at Onondaga Community College and may take advantage of the many resources at the college including the Library and tutoring centers. CCN offers more course options than Advanced Placement (AP) and International Baccalaureate (IB) programs. In addition, CCN assesses the work of an entire semester for each student, and is not dependent on one high stakes test. The Onondaga College Now Program meets the very highest of program standards and is nationally accredited by the National Alliance of Concurrent Enrollment Partnerships (NACEP).

SUNY COLLEGE OF ENVIRONMENTAL SCIENCE AND FORESTRY

<http://www.esf.edu/outreach/esfhs/> or

<http://www.esf.edu/outreach/esfhs/documents/newATaGlanceNEW1617.pdf>

ESF in the High School classes have the opportunity for field trips to ESF's main campus in Syracuse, NY and to our regional campuses in the Adirondacks and field stations across NY State. In-school presentations and demonstrations by ESF faculty, staff and students are also available. Students participating in the Global Environment class are eligible to participate in the Environmental Summit, held each Spring at SUNY-ESF. At the Summit students can present their individual or group research in an oral or poster presentation.

SYRACUSE UNIVERSITY <http://supa.syr.edu/>

Syracuse University courses offered through Project Advance are open to qualified seniors who have shown high self-motivation and academic achievement, i.e., a recommended 'B' average or better in the subject area and overall (GPA), and who have the recommendation of their teachers, school administrators, and guidance personnel. Some courses are open to select juniors as well. To be eligible to take an SU course through SUPA, students must meet any prerequisites required (see Course Details at the end of this document for a list of courses and their prerequisites). Exceptions to this policy require prior approval from the appropriate SU Project Advance administrator and University faculty coordinator. High school students who take an SU course through Project Advance are held to the same academic standards as matriculated SU students. In advising students, counselors should keep in mind that regularly matriculated, full-time SU students are considered to be carrying a full course load if they register for 12-15 credits per semester (or 3 or 4 courses). Given the rigor and the additional preparation required for these SU courses, students should be advised against taking more

than 2-3 SU courses per semester to ensure that they will be successful in their studies, particularly if they are taking other advanced courses and involved in multiple extracurricular activities.

Bryant and Stratton College – Jump Start Program

High School Juniors and Seniors can get an early start on college by taking courses for college credit while still in high school through the Jump Start Program. This program can save a student time and money, while becoming more familiar with college-level work and gives them a change to explore career interests in more in depth.

Please see your school counselor for more information.

SMART SCHOLARS



(SUNY ESF, SUPA)

Funded by a grant through the New York State Education Department in conjunction with the Syracuse City School District and Onondaga Community College (OCC), high school students are eligible to take classes on campus at OCC. The program has been implemented to help students accelerate the completion of their high school requirements while earning college credits simultaneously. Students at ITC and Nottingham are taking classes on a part-time basis while still enrolled in high school. Students can take classes free of charge with the cost of their textbooks covered as well.

Students are expected to attend classes regularly, display maturity and responsibility, and complete their work just like every other OCC student. Students who participate in the Smart Scholars program have the opportunity to fulfill elective and general education requirements early which can decrease the number of semesters needed to complete their Associate's degree at OCC and transfer to a four-year institution or enter the workforce.

PROJECT LEAD THE WAY



Project Lead the Way provides a comprehensive approach to STEM Education. Through activity-, project-, and problem-based curriculum, PLTW gives students in high school a chance to apply what they know, identify problems, find unique solutions, and lead their own learning. For educators, our engaging, rigorous teacher professional development model provides tools to empower students and transform the classroom into a collaboration space where content comes to life. Syracuse City School District offers engineering based courses to high school students throughout the city.

PLTW's success in preparing students with the knowledge and skills they need to succeed has been recognized by colleges and universities. Fortune 500 businesses, and numerous national organizations including Change the Equation, the Social Impact Exchange, and more.

INTERNATIONAL BACCALAUREATE DIPLOMA PROGRAMME



The internationally recognized International Baccalaureate Programme is a demanding pre-college course of study that prepares students for success at the university level and beyond. The IB Programme addresses the intellectual, social and emotional well-being of students. The IB curriculum is based on a rigorous, integrated curriculum that leads to examinations in a student's final two years of high school. The overall purpose of the Programme is to develop internationally minded people who, recognizing their common humanity and shared guardianship of the planet, help to create a better and more peaceful world.

Students interested in the IB Programme choose one course from each of the six subject groups of the IB Curriculum. The subject groups are English, Spanish, History of the Americas, Experimental Sciences, Mathematics, and Arts & Electives. In addition to the IB classes, IB Diploma candidates also complete a Theory of Knowledge class, The Extended Essay, and Creativity, Action, Service (CAS) for a total of 150 hours over two years. Students can receive up to 30 college credits and earn college sophomore status while still in high school.

- **Theory of Knowledge (TOK)** – an interdisciplinary seminar that lies at the heart of the IB curriculum. TOK is designed to foster critical thinking while giving students an opportunity to understand and reflect on the interrelationship of the knowledge gained in the classroom.
- **Creativity, Action, Service (CAS)** –an extracurricular component of the program. The goal of IB is to educate the whole individual while cultivating an enlightened and compassionate citizenry. To that end, IB requires students to participate in extracurricular activities that strengthen their creative skills, community involvement, and physical development.
- **Extended Essay (EE)** – a 4,000-word paper describing the results of an original project. The EE offers students an opportunity to explore a topic of personal interest while learning the research and writing skills required in college.

ALTERNATIVE PROGRAMS (GRADES 9-12)

The Johnson Center offers students in grades 9-12 a comprehensive instructional program that merges life skills necessary for success with existing Syracuse city School District curricula. Students can expect a rigorous academic curriculum which promotes the development of self-determination, responsibility, and integrity. The innovative educational environment provides flexible learning opportunities to support student success. Age-appropriate direct intervention that addresses student social emotional behavior concerns will be provided using restorative justice components. Leadership skills fundamental to student achievement are embedded throughout the curricula. Students are recommended for placement by school administrators, parents, or the Office of Student Support Services. An individualized plan for each student is designed collaboratively by academy staff, parents, and the student to ensure that each student meets his/her educational goals. Multiple instructional options support seamless student transitions to additional programs within the Johnson Center or in a comprehensive school.

Online Learning

Online learning offers innovative and flexible solutions to assist students who need to recover course credit because of extenuating circumstances or who desire to graduate with their class but lack one or two credits that are not available for completion in a traditional setting. Online curriculum offerings are provided in a structured school lab or community center environment.

General Education Development



The TASC Test Assessing Secondary Completion™ is the new national High School Equivalency Exam. Aligning with College and Career Readiness standards, students can study at their own pace for assessments in reading, writing, mathematics, science, and social studies. Test-takers benefit from the flexibility and affordability of the TASC test. This provides you with the best chance for success.

ELECTIVE COURSES

BIT 100 PERSONAL BUSINESS MANAGEMENT *(1 Credit)*

This course is designed to provide a basic understanding of the essential elements of management. The course will introduce the student to the fundamental management functions including planning, organizing, leading, and controlling from a historical and contemporary perspective. These management functions will encompass practical applications of management theory; and is designed with a skills based approach and focuses on: communication (oral, written, non-verbal, and listening), problem solving, teamwork, decision making, conflict resolution, critical analysis and ethical reasoning. Students will be introduced to work related situations that will help foster the management skills necessary for a successful future. Offered at Nottingham

BIT 130 PERSONAL AND BUSINESS LAW *(1 Credit)*

This course focuses on court systems, ethics, law, torts, contracts, agreements, rights and consumer laws, owning a vehicle, property, patents, copyrights, trademarks, employee rights and duties, banking, credit, divorce, landlord/tenant relationships, forms of insurance. Offered at Corcoran and Nottingham

BIT 140 ENTREPRENEURSHIP *(1 Credit)*

A 1-unit course that introduces students to the important role that marketing plays in our economic system. Content revolves around the basic marketing functions of financing, risk management, selling, promotion, pricing, purchasing, marketing information management, product/service/idea planning and distribution. Although students are given the opportunity to refine entry level employment skills, the course focuses on more advanced career sustaining skills associated with employment in various marketing subsystems. Offered at Nottingham

BIT 150 CORPORATE COMMUNICATIONS *(1 Credit)*

This course describes how companies communicate with key audiences, both internal and external to the corporation. Course introduces students to the communication function and how companies reach a variety of publics to include customers, investors, employees, media, government and communities in relation to the corporation. The purpose of this course is to engage students in the purpose and significance of communication within an organization at many levels. Students will learn both the why, how and application of communication techniques as organizations interface with customers, employees, and the public. As a result, students should have greater understanding of and appreciation for the corporate communication process. Offered at Nottingham

BIT 201 ACCOUNTING *(1 Credit)*

Students will study the basic principles, concepts, and practices of accounting using both manual and computerized systems. Computers are used throughout the course to facilitate the processing of financial data, i.e., payroll and accounts receivable and payable. Students use Excel and computer software to analyze and interpret financial data. Offered at Nottingham

BIT 205 PERSONAL FINANCE *(1/2 Credit)*

Personal finance is designed to develop competencies required to manage personal financial affairs. Topics, include; intro to personal finance, budgeting, types of compensation, managing a checkbook, comparison shopping, credit, managing insurance savings and investments, understanding investments, taxes and purchasing a home. Offered at Corcoran, Nottingham, PSIA

BIT 300 PRINCIPLES OF MARKETING (1 Credit)

This course is designed to provide students a basic foundation in the starting and managing of a small business. Content includes selected entrepreneurial skills as well as those necessary to the management, merchandising, and marketing functions inherent in the operation of a small business. Students successfully completing the course will have a solid foundation in concepts that may be utilized in starting a small business or entering employment immediately after high school, or as a basis for post-secondary study. Offered at Nottingham

BIT 310 SPORTS, ENTERTAINMENT MARKETING MANAGEMENT (1 Credit)

This course covers the history of sports and entertainment industries and career opportunities and skills required for management, financial/accounting, economic development, personal, legal and other related employment positions. Offered at Corcoran, Henninger, Nottingham, PSLA

BIT 401 COMPUTER APPLICATIONS I (1 Credit)

This is a computer basics course that introduces students to basic keyboarding, word processing, editing, desktop publishing, spreadsheet and database construction/techniques and effective use/search on the internet. Offered at Corcoran, Henninger, Nottingham, PSLA

BIT 402 COMPUTER APPLICATIONS II (1 Credit)

This is a computer course that enables students to specialize and to use advanced Microsoft word processing, excel spreadsheet, Access. Desktop publishing, power point, advanced research techniques of the internet and Mouse certification information. Offered at Nottingham

BIT 410 WEB PAGE DESIGN (1 Credit)

This course focuses on the fundamentals of WWW, U.R.L., Anatomy, Web servers, browsers, HTML, images, links, test formatting, image maps, tables, frames, forms, Web site evaluation all leading to the creation of a fully functioning website. **Prerequisite: Computer Applications I** Offered at Nottingham

BIT 705 SYRACUSE UNIVERSITY PROJECT ADVANCE (SUPA) THE ECONOMICS OF PERSONAL FINANCE (1 Credit/3 Credits ECN 305)

This three-credit course is an Economics course. It applies the fundamental Economic problem – how to efficiently allocate (finite) resources in order to most effectively meet (infinite) human wants and needs – to the study of Personal Finance. In this context, the course covers vocabulary, institutional structures, concepts, and issues to take on the problem of most efficiently allocating finite financial resources to effectively meet students' wants and needs as households in terms of gaining and preserving financial security, now and throughout their lives. Offered at Henninger and Nottingham

BIT 750 SYRACUSE UNIVERSITY PROJECT ADVANCE (SUPA) ENTREPRENEURSHIP (1 Credit/3 Credits EEE 370)

This is an introductory course intended to provide students with a solid foundation and understanding of the vital role played by entrepreneurs and entrepreneurship in the 21st century global economy. During the course, we will assess, explore, critique, and celebrate the phenomenon of entrepreneurship, including its role in society, its process nature, and its ethical dilemmas. Our emphasis is on entrepreneurship as a manageable process that can be applied in virtually any organizational setting, and our primary focus will be on the creation of new ventures, the ways that they come into being, and the factors associated with their success. This course integrates a number of different disciplines, ranging from sociology and psychology to economics, finance, marketing, and human resource management. It also mixes theory and practice, and students will be challenged to apply principles, concepts, and frameworks to real world situations. Offered at Nottingham

BIT 780 ONONDAGA COMMUNITY COLLEGE (OCC) INTRODUCTION TO BUSINESS

(1 Credit/3 Credits BUS 101)

This is an introductory course designed to give the student an overview of the impact of business on society. The course is intended to aid the student in obtaining a clear understanding of the way in which contemporary business functions through the interrelationships of marketing, management, and finance. It is not open to students with previous credit in BUS 121 and/or BUS 230 Offered at ITC

BIT 781 ONONDAGA COMMUNITY COLLEGE (OCC) MATHEMATICS OF BUSINESS & FINANCE

(1 Credit/3 Credits BUS 102)

A study of applied mathematical concepts and processes as applied to business and finance. Students will develop skills required to perform with accuracy and facility mathematical operations integral to the interpretation and solutions of business problems. Arithmetic operations, signed numbers, linear equations, percentage and statistical procedures are applied to such topics as accounting, retailing, risk management, banking and finance.

BIT 783 ONONDAGA COMMUNITY COLLEGE (OCC) FINANCIAL ACCOUNTING *(1 Credit/3Credits BUS 105)*

An introduction to accounting as a means of recording business activities. This course includes a study of the classification and recording of original business transactions, the preparation and evaluation of financial statements, and the application of Generally Accepted Accounting Principles. This course will incorporate appropriate computer technology in the instruction process. Offered at ITC

BIT 784 ONONDAGA COMMUNITY COLLEGE (OCC) INFORAMTION AND COMPUTER LITERACY *(1 Credit/3 Credits CIS 100)*

This course offers students an overview of the role of technology in society and provides an introduction to digital and information technologies, concepts, and terminologies. Discussions of the Community, Legal, and Ethical issues related to digital devices and the Internet are integral to the nature of this course. This course provides students with opportunities to develop research and critical thinking skills, and will introduce students to continuously evolving and emerging digital technologies and their effects on society. Students will demonstrate the skills needed to be an informed digital citizen, achieve academic and workplace success, and participate in an increasingly globalized environment. Students will use web applications, word-processing, spreadsheet, database, presentation, and other software, as applicable, to learn, search and organize their research, and then present and communicate their findings Offered at ITC

BIT 900 CAREER AND FINANCIAL MANAGEMENT *(1/2 Credit)*

This course is designed to provide students with a basic knowledge of many of the most fundamental life and career skills. Students will receive instruction in Business Systems and Economics, Career Planning, the Career Selection Process, Career Success, and Financial Literacy. This course is mandatory for all students enrolled in a Career and Technical Education Program. Offered at Henninger, Nottingham

BIT 901 MATH AND FINANCIAL APPLICATIONS *(1 Credit)*

This course covers the basic areas of business math as well as develop a deeper understanding of loans, insurance, annuities and other topics that will soon be a part of the student's life. Technology is integrated throughout. **For the class of 2018 and beyond this is no longer an option for a 3rd unit of mathematics.** Offered at Corcoran, Nottingham, PSLA

GRA 102 GRAPHIC ARTS II *(1 Credit)*

Desktop Publishing II, Adobe Photoshop, PowerPoint slide presentations, Digital camera and video camera operation, Web page construction using Claris Home page, iMac Moviemaker and Kid Pix software, DVD technology

OTH 009 AVID - ADVANCEMENT VIA INDIVIDUAL DETERMINATION (1 Credit)

OTH 010 AVID - ADVANCEMENT VIA INDIVIDUAL DETERMINATION (1 Credit)

OTH 011 AVID - ADVANCEMENT VIA INDIVIDUAL DETERMINATION (1 Credit)

OTH 012 AVID - ADVANCEMENT VIA INDIVIDUAL DETERMINATION (1 Credit)

One Year Prerequisite: Selection process

The AVID course is an elective class for students who are college-bound. The AVID curriculum focuses on writing, inquiry, collaboration and reading (WICR) through the AVID High School curriculum in both teacher and tutor-led activities. While concurrently enrolled in a college-prep course of study, students learn strategies to enhance success. Note-taking, outlining, writing, speaking, reading, test-taking strategies, and self-awareness are stressed. In addition, the course includes college motivational activities and intensive preparation for ACT, SAT I and SAT II. Offered at Corcoran, Henninger

OTH ACADEMIC INTERVENTION SERVICES (0 Credit)

AIS are classes that provide additional instruction which supplements the instruction provided in the general curriculum and assists students in meeting the State learning standards. Students may also receive student support services which may include guidance, counseling, attendance, and study skills which are needed to support improved academic performance; provided that such services shall not include services provided to students with limited English proficiency or special education services and programs as defined in Education Law. Academic intervention services are intended to assist students who are at risk of not achieving the State learning standards in English language arts, mathematics, social studies and/or science, or who are at risk of not gaining the knowledge and skills needed to meet or exceed designated performance levels on State assessments. Academic intervention services shall be made available to students with disabilities on the same basis as nondisabled students, provided, however, that such services shall be provided to the extent consistent with the individualized education program developed for such student (*NYSED Part 100 Regulations/100.1 Definitions*).

OTH 040 ELA Offered at Corcoran

OTH 045 Algebra Offered at Corcoran

OTH 046 Geometry Offered at Corcoran

OTH 051 Living Environment Offered at Corcoran

OTH 055 Global History and Geography Offered at Corcoran

OTH 056 US History and Government Offered at Corcoran

OTH 065 WILSON READING (0 Credit)

This course is an intensive Tier 3 program for students with word-level deficits who are not making sufficient progress through their current intervention; have been unable to learn with other teaching strategies and require multisensory language instruction; or who require more intensive structured literacy instruction due to a language based learning disability. Through the program, students learn fluent decoding and encoding skills to the level of mastery. From the beginning steps of the program, students receive instruction in: Phonemic awareness; Decoding and word study; Sight word recognition; Spelling; Fluency; Vocabulary; Oral expressive language development and Comprehension. Offered at Nottingham

OTH 110 LIBERTY PARTNERSHIP (0 Credit)

The Syracuse University LPP program provides both basic and advanced skill development to high school students through tutorial services, career and college exploration activities, and a variety of support and enrichment experiences for students and their families. Offered at Corcoran Offered at Henninger, Nottingham

OTH 205 INTERNSHIP EXPERIENCE (1/2 Credit)

This course is for students who are enrolled in an approved Career and Technical Program in the district. The CTE Internship provides CTE students an opportunity to engage in learning through participation in a structured work experience that involves the application of previously developed CTE knowledge and skills. The CTE Internship must be directly related to the CTE program where the credits were earned and offers both paid and unpaid work experience. Offered at Corcoran, Nottingham

ENGLISH COURSES

English Course of Study	
GRADE 9 English 9 (1) English 9: IB Language & Literature MYP Year 4 (1 credit)	GRADE 10 English 10 (1) English 10: IB Language & Literature MYP Year 5
GRADE 11 English 11: American Literature (1) IB English Language and Literature (HL-I) (1) AP Literature and Composition (1)	GRADE 12 English 12: British Literature (1) IB English Language and Literature (HL-II) (1) AP Language and Composition (1) SUPA English 12 (1) SUPA Presentational Speaking (.5) SUPA Intro to Creative Non-Fiction (.5) SUPA Writing Culture (1) OCC Composition And Literature 12-1 (.5) OCC Composition And Literature 12-2 (.5) ESF Writing and The Environment (1)
	Multicultural Literature (.5) Short Stories/Poetry (.5) Yearbook (.5) Creative Writing (.5) Word Power (.5) Cinema/Film (.5) Television Production (.5) Journalism/Newspaper I (.5) Journalism/Newspaper II (.5)

All students should be placed into the appropriate Core ELA course. Interventions should occur as necessary to support student reading needs without denying students access to core ELA programming. Students must successfully complete 4 ELA courses to meet NYS graduation requirements. Student transcripts must include either English 9, English 10, English 11, AP English Literature, IB English or AP Language Composition, and a 4th English course taken in 12th grade.

Students who have passed the CCLS ELA Regents with lower than an 85 must take English 12. Students who passed the CCLS ELA Regents with an 85 or better may take English 12, Dual Enrollment English, or an approved English elective. All ELA courses are recommended to be yearlong courses for students requiring targeted or intensive support. Students would receive one ELA credit and one elective credit for the intervention course (depends on the intervention program chosen).

Students entering 9 through 11 Core ELA should be placed in their grade level core course. If students are entering 12th grade and are receiving a core ELA course for the first time, they should be placed in English 11 American Literature.

ENG 101 ENGLISH 9 (1 Credit)

This course requires students to think deeply about both fiction and non-fiction while emphasizing academic language skills that are considered essential for college and career readiness: close analytical reading of complex texts, text-dependent questioning, and effective classroom discussion. This course offers a blend of classic and contemporary works from authors of diverse backgrounds. NCAA Approved Offered at all High Schools

ENG 101 IB English 9: Language & Literature MYP Year 4 (1 credit)

This course is intended to emphasize academic language skills that are considered essential for college and career readiness: close analytical reading of complex texts, text-dependent questioning, and effective classroom discussion. Students will also focus on improving writing skills through the use of analytical proof, using documentation from various sources. NCAA Approved Offered at Corcoran

ENG 102 ENGLISH 10 (1 Credit)

This course in World Literature continues to engage students in close analytical reading of complex texts and rich academic discourse demanding the use of textual evidence to support ideas. Students will be introduced to the genres and elements of world literature and their related historical and social contexts through informational texts. Students will focus on source-based argumentative writing around world issues. NCAA Approved Offered at all High Schools

ENG 102 IB English 10: Language & Literature MYP Year 5 (1 credit)

English 10 will be a continuation of instruction in the writing process, and the reading and critical analysis of literature. Students will be introduced to the genres and elements of world literature and their related historical and social contexts through informational texts. Students will focus on text-based argumentative writing in preparation for the NYS Common Core exam that they will take in 11th grade. NCAA Approved Offered at Corcoran

ENG 103 ENGLISH 11 (1 Credit)

Drawing from various genres, this course will identify the ideas and values traditionally considered part of the American experience. This class is structured with a heavy emphasis on analysis of informational texts. Through the study of a variety of text types and media, students build knowledge, analyze ideas, delineate arguments, and develop writing, collaboration, and communication skills. Particular emphasis will be placed on skills necessary for successful completion of the NYS Common Core Regents exam including annotation of texts, using textual evidence to support claims, argumentative essay writing, and vocabulary. NCAA Approved Offered at all High Schools

ENG 104 ENGLISH 12 (1 Credit)

The 12th grade ELA course includes an emphasis on British Literature and preparation for collegiate studies. The course focuses on fundamental skills, techniques, and processes of argumentative and formal research papers, as well as beginning the year with the development and formation of a personal narrative. Students will engage in deep analysis and critical evaluation of higher level, complex texts, advancing their skills of interpretation and exploring the subtleties of authors' craft and the impact on diverse ideas on society as a whole. NCAA Approved Offered at Nottingham

ENG 123 ADVANCED PLACEMENT (AP) ENGLISH LANGUAGE AND COMPOSITION

(1 Credit/weighted) Prerequisite: English 11

The AP English Language and Composition course aligns to an introductory college-level rhetoric and writing curriculum, which requires students to develop evidence-based analytic and argumentative essays that proceed through several stages or drafts. Students evaluate, synthesize, and cite research to support their arguments. Throughout the course, students develop a personal style by making appropriate grammatical choices. Additionally, students read and analyze the rhetorical elements and their effects in non-fiction texts, including graphic images as forms of text, from many disciplines and historical periods. NCAA Approved Offered at Nottingham

ENG 124 ADVANCED PLACEMENT (AP) ENGLISH LITERATURE AND COMPOSITION

(1 Credit weighted) Prerequisite: English 10

The AP English Literature and Composition course aligns to an introductory college-level literary analysis course. The course engages students in the close reading and critical analysis of imaginative literature to deepen their understanding of the ways writers use language to provide both meaning and pleasure. As they read, students consider a work's structure, style, and themes, as well as its use of figurative language, imagery, symbolism, and tone. Writing assignments include expository, analytical, and argumentative essays that require students to analyze and interpret literary works. NCAA Approved Offered at Nottingham

ENG 312 SHORT STORIES *(1/2 Credit)*

This elective course acquaints students with the history and development of American short stories. Beginning with Poe and concluding with modern Americans, the student is presented with a microcosmic view of the growth of the genre and the society it reflects. The skills of reading, writing, speaking, and listening will be taught as essential components. Students will follow the course of study established in the adopted ELA curriculum. NCAA Approved Offered at all High Schools

ENG 410 CREATIVE WRITING *(1/2 Credit)*

Creative Writing focuses on writing and understanding poetry, fiction and personal non-fiction. The purpose of this elective course is to develop students' interest and ability in writing in several genres. Journal writing and writing activities will occur daily. The final project will require pieces of writing submitted for publication. NCAA Approved Offered at all High Schools

ENG 500 WORD POWER *(1/2 Credit)*

This elective course seeks to enrich the student's vocabulary primarily by a study of prefixes, roots, and suffixes derived from Latin, Greek and other sources. The student will thus be aided in improving reading skills and in preparing for the verbal section of the PSAT and the SAT examinations. The skills of reading, writing, speaking and listening will be taught as essential components. Students will follow the course of study established in the adopted ELA curriculum. Offered at all High Schools

ENG 721 IB DP ENGLISH LANGUAGE/LITERATURE (HL-I) *(1 Credit weighted)*

Prerequisite: English 10

This is a two year college level English course offering potential college credit based on independent IB exams. This course focuses on the relationship between language, culture, and context in order to appreciate the varied cultures and histories of countries that produce texts in English. This two year course is offered in lieu of English 11 and 12; however, students are still required to take and pass the NYS ELA Common Core exam. NCAA Approved Offered at Corcoran

ENG 722 IB DP ENGLISH LANGUAGE/LITERATURE (HL-II) (1 Credit weighted)

Prerequisite: IB English Literature

This is a two year college level English course offering potential college credit based on independent IB exams. This course focuses on the relationship between language, culture, and context in order to appreciate the varied cultures and histories of countries that produce texts in English. This two year course is offered in lieu of English 11 and 12; however, students are still required to take and pass the NYS ELA Common Core exam. NCAA

Approved

Offered at Corcoran

ENG 750 SYRACUSE UNIVERSITY PROJECT ADVANCE (SUPA) ENGLISH 12

(1 Credit weighted/3 Credits WRT105/3 Credits ETS 192)

Project Advance English is a two-semester college level course, offered in conjunction with Syracuse University and open to qualified high school seniors. *Practices of Academic Writing* (WRT 105) is taken the first semester. WRT 105 is a writing intensive course that is centered on the development of analytical writing, analytical thinking, and critical reading skills. This course requires students to revise their writing as they work through multiple drafts leading to final papers of analysis and documented argument. NCAA Approved Offered at Henninger, Nottingham

Practices of Academic Writing (WRT 105) is taken the first semester. WRT 105 is a writing intensive course that is centered on the development of college level analytical writing, analytical thinking and critical reading skills. This course requires students to significantly revise their writing as they work through multiple drafts leading to final papers of critical analysis and documented argument.

Gender & Literary Texts (ETS 192) is the second semester course and explores the construction and representation of 'gender,' especially as it affects the production and reception of literary and other cultural texts. o examine the ways in which literature participates in the social reproduction of gender, as well as the difference that gender makes in the production and reception of literary texts, students will practice extensive close reading, evidence-based analysis and argumentation, and independent-inquiry.

ENG 751 SYRACUSE UNIVERSITY PROJECT ADVANCE (SUPA) PRESENTATIONAL SPEAKING

(1/2 Credit weighted/3 Credits CRS 325)

This course presents the conceptual and practical dimensions of formal presentations in organizational settings. We will examine analysis, adaptation, strategic arrangement, development of ideas, and verbal and nonverbal presentation skills. This course is designed to build a solid understanding of the fundamentals of public presentations, as well as the ability to employ those skills flexibly so that a speaker can adjust selected topics and tactics to specific audiences. NCAA Approved Offered at Henninger, Nottingham

ENG 752 SYRACUSE UNIVERSITY PROJECT ADVANCE (SUPA) WRITING CULTURE: INTRO TO CREATIVE NONFICTION *(1/2 Credit weighted/3 Credits WRT 114)*

This course focuses on the genre of creative nonfiction. Students explore varieties of creative nonfiction, such as memoir; biography; the personal essay; travel, science, and food writing; and "new journalism." As its name suggests, creative nonfiction borrows elements from fiction and poetry (e.g., description, scene construction, dialogue, etc.) yet still aims to tell the truth. For a writer to "tell it slant," however, is to acknowledge the ways in which one's subjective viewpoint shapes what counts as "the truth" in telling a story about one's own or another's experiences. Students will have the opportunity to experiment with style, genre, and subject in a writing studio environment and to read varied examples of contemporary creative nonfiction (e.g., Michael Pollan's *The Omnivore's Dilemma*, Rebecca Skloot's *The Immortal Life of Henrietta Lacks*, George Saunders' *The Braindead Megaphone*, etc.). Students will craft and workshop their own creative nonfiction compositions. Offered at Henninger, Nottingham

ENG 753 ONONDAGA COMMUNITY COLLEGE (OCC) COMPOSITION AND LITERATURE 12-1
(1/2 Credit/3 Credits ENG 103)

This course develops the skills and forms necessary for writing college-level expository prose. Methods for developing content; organizing information and ideas; and presenting that material to a reader clearly, concisely, and coherently will be taught. Various readings may be used as a source of models and ideas. NCAA Approved
Offered at ITC, Henninger, Nottingham

ENG 754 ONONDAGA COMMUNITY COLLEGE (OCC) COMPOSITION AND LITERATURE 12-2
(1/2 Credit/3 Credits ENG 104)

Teaches students to comprehend, respond to and use the ideas of others in their own writing. Skills such as analytic and critical reading and writing, summarizing, and paraphrasing are developed through the study of literature. Term paper form will also be taught. Prerequisite: ENG 103. NCAA Approved
Offered at ITC

ENG 760 SUNY COLLEGE OF ENVIRONMENTAL SCIENCE AND FORESTRY (ESF) WRITING AND THE ENVIRONMENT *(1 Credit weighted/3 SUNY Environmental Science and Forestry-EWP 190)*

This elective course provides an introduction to writing and reading on the college level with an emphasis on nature and the environment. The course will require frequent informal writing, an oral presentation, and three formal writing assignments. Through frequent practice and opportunities for revision, students will acquire the skills to achieve college-level literacy. Using nature and the environment as topics of inquiry, this course will develop in the students the ability to think, write, and read critically. Offered at ITC

ENG 900 MULTICULTURAL LITERATURE *(1/2 Credit)*

In this elective course the skills of reading, writing, listening, and speaking are taught through the study of a multi-cultural experience in the United States. Essay, short stories, novels, poetry, media and plays of and by authors representing our nation's diverse fabric are read and analyzed. Students will follow the course of study established in the adopted ELA curriculum. Offered at Nottingham

ENG 911 YEARBOOK I *(1/2 Credit)*

Students learn to develop a theme and create unique and interesting layouts in this elective course. They will learn to edit, polish and advertise a sellable product. Students will learn interviewing skills and will interact with staff and students in a professional capacity. **(Last year for this course offering)** Offered at Corcoran

ENG 930 CINEMA/FILM *(1/2 Credit)*

The purpose this elective course is to study cinema, the art of the twentieth century. Film can contribute to the student's awareness and understanding of the world of significant human experience and values. The general goal is to develop in the student, the habit of analysis, understanding, and the appreciation of the cinema in a disciplined and creative manner. The skills of reading, writing, speaking and listening will be taught as essential components. Students will follow the course of study established in the adopted ELA curriculum.
Offered at Corcoran, Nottingham

ENG 931 TELEVISION PRODUCTION *(1/2 Credit)*

This elective course uses the television studio to reinforce basic skills. Students write scripts to be graded in terms of content, organization, and usage. Videotape is an especially accommodating tool for learning because instant feedback brings early results, the limitations involved with actual broadcast time encourage development of economy in language, and as cooperation and organization are stressed, lines of interpersonal communication must remain well defined. Students will follow the course of study established in the adopted ELA curriculum.
Offered at Corcoran

ENG 951 JOURNALISM I (1/2 Credit)

Prerequisite: English 9 & 10

Journalism is an elective course dealing with the various types of print media. Its aim is to develop writers who are skilled primarily in the art of reporting and secondarily in the art of interpreting. It also gives students the rudiments of the journalistic vocabulary and the basics of page layout and editing through work on publications. Students will follow the course of study established in the adopted ELA curriculum. **A student may only take this course once for credit.** NCAA Approved Offered at Corcoran, Henninger, Nottingham

ENG 952 JOURNALISM II (1/2 Credit)

Prerequisite: English 9 & 10

Students electing the second semester elective course will broaden and deepen their journalistic skills to include a focus on reading and analyzing newspapers and the ethical consideration of journalism. Students will follow the course of study established in the adopted ELA curriculum. **A student may only take this course once for credit.** NCAA Approved Offered at Corcoran, Henninger, Nottingham

ENGLISH AS A NEW LANGUAGE

Note: Students in the ENL program adhere to the following two requirements:

- A. All ESL students must take the NYSESLAT until they test proficient, however it is not a requirement for graduation.
- B. To meet the New York State graduation requirements, all ENL students must pass the English regents examination

Offered in all High Schools

ENG 080 ENL ENTERING (1 Credit)

English as a New Language is an elective course for students who have been identified as Entering based on the NYSITELL or NYSESLAT scores. Addresses appropriate English Language Development (ELD) skills in listening, speaking, reading and writing. This course is designed to help ELL students learn and acquire English to an Emerging level of proficiency or higher, that maximizes their capacity to engage successfully in academics taught in English.

ENG 081 ENL EMERGING (1 Credit)

English as a New Language is an elective course for students who have been identified as Emerging based on the NYSITELL or NYSESLAT scores. Addresses appropriate English Language Development (ELD) skills in listening, speaking, reading and writing. This course is designed to help English Language Learner (ELL) students learn and acquire English to a Transitioning level of proficiency or higher, that maximizes their capacity to engage successfully in academics taught in English.

ENG 082 ENL TRANSITIONING (1 Credit)

English as a New Language is an elective course for students who have been identified as Transitioning based on the NYSITELL or NYSESLAT scores. Addresses appropriate English Language Development (ELD) skills in listening, speaking, reading and writing. This course is designed to help English Language Learner (ELL) students learn and acquire English to an Expanding level of proficiency or higher, that maximizes their capacity to engage successfully in academics taught in English.

ENG 087 ENL FOR STUDENTS WITH INTERRUPTED FORMAL EDUCATION (1 Credit)

An introductory level English as a New Language is an elective course for Students with Interrupted Formal Education (SIFE). English Language Learner (ELL) students in this course will be provided more intensive, more explicit English language acquisition instruction, designed to meet individual needs. Addresses appropriate language skills development in listening, speaking, reading and writing. This course will focus on literacy with support and scaffolds at the appropriate level that enable students to transition to the ENL Entering level.

OTH 105 NATIVE LANGUAGE CREDIT (3, 4 or 5 Credits)

LOTE credits may be awarded for school attendance in another-than-English-speaking environment.

- If residence and school attendance occurs up to age 11, the school may award up to three (3) units of credit
- If residence and school attendance occurs up to age 12, the school may award up to four (4) units of credit
- If residence and school attendance occurs up to age 13, the school may award up to five (5) units of credit at age

Credits awarded through this provision may be used towards the student's fulfillment of the LOTE requirement, even if the language is different than the language offered in SCSD. Offered at Corcoran

HEALTH, SAFETY, AND PHYSICAL EDUCATION

HSP 101 PHYSICAL EDUCATION (1/2 Credit)

Students in Physical Education I will focus on gaining a level of competency in six selected activities from at least three different complex motor and sport activities. Students will self-assess their fitness level in order to begin setting realistic fitness goals based upon the fitness components and the F.I.T.T. concept, and begin to identify resources in the community to meet their goals. Students will also be able to demonstrate responsible personal and social behavior while engaging in physical activity. In order to complete Physical Education I, students must draft a personal lifelong fitness plan. Offered at all High Schools

HSP 105 YOGA (1/2 Credit)

This course is designed to introduce students, safely, to the basic postures, breathing techniques, and relaxation methods of yoga. Students will begin to experience the benefits of stretching, moving and breathing freely as they relieve built up stress, learn to relax, and ultimately get more out of day-to-day life. The aim of this course is to promote vibrant health and to tap the body's latent energy reserves. Offered at all High Schools

HSP 111 DANCE I (1/2 Credit) Students must be in 10th – 12th grade and have passed Physical Education in their 9th grade year. Students must have an interest in taking dance and an understanding that the year is broken into 8 units: Hip/Hop, African, Jazz, Tap, Ballet, Modern, Yoga, and Student Choreography. Offered at all High Schools

HSP 112 DANCE II (1/2 Credit)

Students must have completed and passed at least 1 year of dance at Nottingham or in the community. Students must have an interest in studying each of the major genres on a deeper level and working on student choreography along with technique and movement skills. Students must be willing to perform for an audience as well as teach to their peers. Offered at all High Schools

HSP 201 HEALTH I (HEALTH AND SAFETY) (1/2 Credit)

Health I (Health and Safety) is the initial health course with .5 units and is required for all students. All three areas of one's total health are covered (mental, physical and social) but one's physical health is more emphasized compared to Health II and III. This course is recommended for tenth-twelfth grade students covering the following subject areas: nutrition, diseases, drugs, alcohol, tobacco, wellness, consumerism, first aid, mental health and environmental issues. Offered at all High Schools

HSP 930 SENIOR LIFESAVING (1/2 Credit)

A physical education teacher who is a certified water safety instructor teaches this course. Students who successfully complete the course receive Red Cross certification as lifeguards. Many certified lifesavers have been and are employed by the Syracuse Parks and Recreation Department. Requirements for this course include successful completion of Physical Education II and demonstration of proficiency in at least two motor skill/sport activities. Offered at Corcoran, Henninger, Nottingham and PSLA

HSP 932 CITIZEN HANDS-ONLY CPR (Mandatory Graduation Requirement per NYSED)

The purpose of the American Red Cross Citizen CPR course is to teach untrained bystanders how to perform hands-only CPR. Having more citizen bystanders trained in this simple skill can help save lives by putting more cardiac arrest victims within a few steps of lifesaving assistance. There are no prerequisites or minimum age to participate in the Citizen CPR course. Offered at all High Schools

MATHEMATICS COURSES

Mathematics Course of Study	
GRADE 9	GRADE 10
Common Core Algebra 1 (1) Common Core Geometry (1) OCC Algebra	Common Core Geometry (1) Algebra 2A (1) Algebra 2B (1) Algebra 2 (1)
GRADE 11	GRADE 12
Common Core Algebra 2 (1) Pre-Calculus (1) IB Math Studies I (1) OCC Pre-Calculus (1) ESF Algebra and Pre-Calculus (1) OCC Pre-Calculus w/Trigonometry (1) AP Statistics (1) AP Calculus (1)	Pre-Calculus (1) OCC Pre-Calculus (1) AP Statistics (1) AP Calculus (1) SUPA Calculus (1) SUPA Statistics (1) ESF Calculus (1) OCC Calculus (1) Applied Statistical Reasoning (1) Business Applications (1)

Students must complete 3 math courses and successfully challenge one Regents Exam to meet graduation requirements. All students in 9th grade will receive either CC Algebra 1 or Intensified Algebra unless the student successfully passed CC Algebra 1 course and the Algebra Common Core Regents Exam in 8th grade. All students who have earned a credit for Algebra 1 will enroll in Geometry. If a student passes Algebra 1 course but does not pass the Regents, the student must be enrolled in Math Lab as an elective course. All students passing Algebra 1 and Geometry will be placed in Algebra 2. Students must meet placement criteria for AP and SUPA courses. Students must have an Algebra 2 credit in order to take Pre-Calculus. All Algebra 1 and Geometry courses are 1 year programs. Math Lab should be made available to all students in 9th grade as an intervention for students. Students may receive an elective credit for math lab, but may not use this course as a 3rd math credit for graduation. This elective is for students who must continue to work on filling in gaps in our core curriculum or would like to accelerate math skills. A math lab must be able to provide data to teachers, students and parents in order to enable differentiated instruction for enrolled students.

MAT 110 COMMON CORE ALGEBRA 1 (1 Credit)

This is the first year of high school mathematics. This course will extend and formalize the mathematics that students learned in the middle grades. This course will deepen and extend understanding of linear and exponential relationships by contrasting them with each other and applying linear models to data that show a linear trend. Students will also engage in methods for analyzing, solving, and using quadratic functions. This course will culminate in the New York State Algebra 1 Regents Examination. *NCAA Approved* Offered in all High Schools

MAT 210 COMMON CORE GEOMETRY (1 Credit)

This course will formalize and extend the geometry that students learned in the middle grades. Students will explore more complex geometric situations and deepen their explanations of geometric relationships, moving toward formal mathematical arguments. Students will build upon an understanding of transformations and relationships between lines and angles to explore concepts of congruence, and similarity of triangles, quadrilaterals, circles and other figures. Students will also utilize their understanding of these figures in two and three dimensions to model real world situations. This course will culminate in the New York State Common Core Regents Examination. *NCAA Approved* Offered at all High Schools

MAT 111 PRE-CALCULUS (1 Credit)

This course is designed to provide the necessary foundation for a standard Calculus course. Units on logic, complex numbers, properties of functions and relations and their groups, i.e., inverse, polynomial, exponential, logarithms, and circular. It also includes Analytic Geometry. Offered at all High Schools

MAT 310 COMMON CORE ALGEBRA 2 (1 Credit)

Building on their work with linear, quadratic, and exponential functions, students extend their repertoire of functions to include polynomial, rational, and radical functions. Students work closely with the expressions that define the functions, and continue to expand and hone their abilities to model situations and to solve equations, including solving quadratic equations over the set of complex numbers and solving exponential equations using the properties of logarithms. This course will culminate in the New York State Regents Common Core Algebra 2 Exam. *NCAA Approved* Offered at all High Schools

MAT 310A ALGEBRA 2A COMMON CORE (YEAR 1) (1 Credit)

Prerequisites: CC Algebra 1, CC Geometry

This is the first year of a two year course that prepares students to take the CC Algebra 2 Regents Examination. This two year course is an alternative to CC Algebra 2, which prepares students for the Common Core Algebra 2 Regents Examination in one year. The first year of this course focuses on an in depth understanding of functions and equations, including functions, their inverses, transformations of functions, and building new functions from old ones. The types of functions and equations studied in depth include polynomial, rational, radical, exponential and logarithmic functions. This course may be the culminating course in high school mathematics for students who take it in their senior year. *NCAA Approved* Offered at all High Schools

MAT 410 ONONDAGA COMMUNITY COLLEGE (OCC) ALGEBRA (1 Credit/4 Credits MAT 114)

Prerequisite: Beginning Algebra (with a grade of SB or higher) or equivalent.

Topics include solving linear equations and inequalities, graphs, functions, systems of equations, polynomials and polynomial functions, factoring, rational expressions and equations, radical expressions and equations, geometric concepts, quadratic equations, and applications. This course will not count toward any elective credit for Math/Science majors. Offered at ITC

MAT 117 BUSINESS APPLICATIONS (1 Credit)

Math Applications in Business introduces students to the applications of math in business. Students will learn and interpret basic relationships (equations) between quantities that arise in business models. They will examine the limitations of such models, their ranges of applicability, and the assumptions on which they are built. Students will also learn how to generate and interpret data to make business decisions. This course takes elements from Algebra, Algebra 2, and Statistics to model business and economic systems and will cover topics including but not limited to accounting, inventory management, marketing, sales forecasting, and financial analysis. Offered at Corcoran, Nottingham

MAT 118 APPLIED STATISTICAL REASONING (1 Credit)

Prerequisites: CC Algebra 1 and at least one other math credit (MAT 119, MAT 104, MAT 113)

Applied Statistical Reasoning provides project-based experiences in statistics, offering students opportunities to strengthen their understanding of the statistical method of inquiry and statistical simulations. Students will formulate statistical questions to be answered using data, will design and implement a plan to collect the appropriate data, will select appropriate graphical and numerical methods of data analysis, and will interpret their results to make connections with their initial question. *NCAA Approved* Offered at all High Schools

MAT 119 MODELING WITH MATHEMATICS (1/2 Credit) **Prerequisite:** CC Algebra 1

Many real-life problems can be described and solved using mathematical models. In this course, students will work on real-life problems primarily in teams with other students. Students will learn to analyze a problem, design a mathematical model, solve the equations in the model, and validate their results. As students work through the creation and implementation of their math models, teachers will encourage them to analyze their solutions and assess their models. This includes asking students to make sense of the answers in the context of the problem, find ways to measure the accuracy of their solutions, and explore how their solutions change if they vary their assumptions. Offered at all High Schools

MAT 120 APPLICATIONS OF QUADRATICS (1/2 Credit) **Prerequisite:** CC Algebra 1

Students will study all things related to quadratic equations and functions, and their applications in the real world. By examining quadratics and their applications, students will deepen their understanding of functions, quadratics, and the application of algebraic thinking to the real world. This course will strengthen students' abilities to use algebra as a tool for solving problems in life. Offered at all High Schools

MAT 122 ADVANCED PLACEMENT CALCULUS (1 Credit weighted)

Prerequisite: Pre-calculus

Special functions are first studied in some detail with an intuitive development of calculus. General techniques of calculus are developed later and then applied to a wide variety of functions. The course will prepare students for the Advanced Placement Examination in Calculus. Students who register for this course are **required** to take the AP test in the spring. *NCAA Approved* Offered at Corcoran, Nottingham

MAT 123 IB DP Math Applications and Interpretation SL (1 Credit weighted)

Prerequisite: CC Algebra 1, CC Algebra 2, and CC Geometry

This course focuses on developing students' mathematical reasoning. Mathematical problems are embedded in a wide range of contexts, and there is an emphasis on applications of mathematics and statistical techniques. The course is designed to offer students with varied mathematical backgrounds and abilities the opportunity to learn important concepts and techniques and to gain an understanding of a wide variety of mathematical topics, preparing them to use their critical thinking and reasoning skills to solve problems. This course requires students to complete one independent project. *NCAA Approved* Offered at Corcoran

MAT 310B ALGEBRA 2B COMMON CORE (YEAR 2) (1 Credit)

Prerequisites: CC Algebra, CC Geometry, Algebra 2A Year 1

This is the second year of a two year course that prepares students to take the CC Algebra 2 Regents Examination. This two year course is an alternative to CC Algebra 2, which prepares students for the CC Algebra 2 Regents Examination in one year. The second year of this course extends the student understanding of functions and equations, including polynomial, rational, radical, exponential and logarithmic functions developed in the first year. In addition, students deepen their understanding of arithmetic and geometric sequences and series, probability and statistics, and trigonometric functions. This course will culminate in the New York State Regents Common Core Algebra 2 Exam. *NCAA Approved* Offered at all High Schools

MAT 781 FINANCIAL LITERACY (1/2 Credit)

This course will immerse students in real-life situations that will provide students with the opportunity to research, analyze, compare and discuss many of the major decisions that adults make to support and build financial security. For each unit, students will be involved with collaborative and individual projects that give students the opportunity to investigate their questions, connect with local professionals, utilize Excel to organize their work and walk away from the course with the skills needed to make sound decisions that will affect their future financial stability.

MAT 321 ADVANCED PLACEMENT STATISTICS (1 Credit weighted)

Prerequisite: CC Algebra 2

This course will introduce students to major concepts and tools for collecting, analyzing and drawing conclusions from data. Four main topics include: exploring data, planning a student, probability and it relates to distribution of data and inferential reasoning. The course will prepare students for the Advanced Placement Examination in Statistics. Student are required to take the AP test in the spring. Offered at Nottingham

MAT 750 SYRACUSE UNIVERSITY PROJECT ADVANCE (SUPA) CALCULUS

(1 Credit weighted/4 Credits MAT 295) Prerequisite: Pre-Calculus

Students will be introduced to the fundamentals of differential and integral calculus. Topics include: the concepts of limits, continuity, derivatives and their applications to traditional collection of functions. Four units of Syracuse University credit (accepted as transfer credit at a number of colleges) may be earned in this course.

NCAA Approved Offered at Henninger, Nottingham

MAT 751 SYRACUSE UNIVERSITY PROJECT ADVANCE (SUPA) STATISTICS

(1 Credit weighted/4 Credits MAT 121) Prerequisite: Algebra 2

Students will be introduced to the major concepts and tools of collecting, analyzing, and drawing conclusions from data. Topics include: descriptive statistics, data collection, probability, random variables, and the use of statistical inferences. Typically, at least one statistics course is required in college for majors such as education, psychology, sociology, health science, environmental science, and business. Six units of Syracuse University credit (accepted as transfer credit at a number of colleges) may be earned in this course. *NCAA Approved*

Offered Henninger, Nottingham

MAT 760 SUNY COLLEGE OF ENVIRNOMENTAL SCIENCE AND FORESTRY (ESF) CALCULUS

(1 Credit/3 Credits APM 105) Prerequisite: CC Algebra 2

Introduction to calculus for students in the life and management sciences. Elements of analytic geometry, functions and their graphs, with an emphasis on the concept of limits, and differentiation techniques for algebraic, exponential and logarithmic functions and their applications to economics, and the life and management sciences.

NCAA Approved Offered ITC

MAT 761 ONONDAGA COMMUNITY COLLEGE (OCC) CALCULUS (1 Credit/4 Credits MAT 161)

Prerequisite: CC Algebra 2

A first course in calculus for students in mathematics, science, computer science, and engineering. Basic analytic geometry, functions, limits and continuity, derivatives of algebraic and trigonometric functions, chain rule, implicit differentiation, antiderivatives, definite integrals, Fundamental Theorem, applications of derivatives and integrals. Graphing calculator use is required. Prerequisite: Four years of college-preparatory mathematics (including trigonometry) or MAT 143 or Permission of Instructor *NCAA Approved* Offered at Nottingham

MAT 762 SUNY COLLEGE OF ENVIRNOMENTAL SCIENCE AND FORESTRY (ESF) ALGEBRA AND PRE-CALCULUS (1 Credit/3 Credits APM 104)

Three hours of lecture/discussion per week. Course meets the SUNY general education requirement for mathematics. Elements of analytic geometry. Emphasis on the concepts of polynomial and rational functions, exponential and logarithmic functions, trigonometry and trigonometric functions and their application to design and life and management sciences. Offered at ITC

MAT 780 ONONDAGA COMMUNITY COLLEGE (OCC) PRE-CALCULUS W/TRIGONOMETRY

(1 Credit/4 Credits MAT 143) Prerequisite: CC Algebra 2

It will prepare for a standard college level Calculus course. Units on logic, complex numbers, properties of functions and relations and their groups, i.e., inverse, polynomial, exponential, logarithms, and circular properties. It also includes Analytic Geometry. Instructors are certified through OCC to be able to offer this course in a building. *NCAA Approved* Offered at ITC, Nottingham

MILITARY SCIENCE

The Naval Junior Reserve Officers Training Corps (NJROTC) curriculum includes instruction which emphasizes self-discipline, citizenship, patriotism, followership, leadership, and orientation in Naval subjects. Each NJROTC unit has its own organizational structure that is administered and operated by student cadets and supervised by certified Naval Science instructors. Cadets participate in academic, athletic, and military programs centered upon Naval subjects designed to foster individual and unit growth in self-awareness and esteem. Students successfully completing two to four years of the program may enter the military at an advanced enlisted pay grade.

Opportunities for being accepted in the various service academies and earning ROTC scholarships are enhanced by participation in the NJROTC program.

Note: Currently offered at Public Service Leadership Academy at Fowler

ROTC 100 NAVAL SCIENCE I (1 Credit)

Grade Level: 9, 10, 11, and 12

The purpose of this course is to introduce students to the precepts of citizenship, the elements of leadership, and the value of scholarship in attaining life goals. This course is also designed to engender a sound appreciation for the heritage and traditions of America, with recognition that the historically significant role of sea power will be important in America's future, and develop in each cadet a growing sense of pride in his/her organization, associates, and self. These elements are pursued at a fundamental level.

ROTC 200 NAVAL SCIENCE II (1 Credit)

Grade Level: 10, 11 and 12

Prerequisite: Naval Science I

The purpose of this course is to build on the general introduction provided in Naval Science I, to further develop the traits of citizenship and leadership in students, introduce cadets to the technical areas of naval science study, and engender a deeper awareness of the vital importance of the world oceans to the continued well-being of the United States.

ROTC 300 NAVAL SCIENCE III (1 Credit)

Grade Level: 11 and 12

Prerequisite: Naval Science I, II

The purpose of this course is to further develop the trait of leadership in students and introduce cadets to the vital importance of military justice, international law, and continue with the instruction of Naval Science to include astronomy, meteorology, weather, and the maneuvering board, and to provide an understanding of the facets of sea power, national security, and naval history.

ROTC 400 NAVAL SCIENCE IV (1 Credit)

Grade Level: 12

Prerequisite: Naval Science I, II, and III

The purpose of this course is to build on the basic qualities of a good follower and an effective leader provided in Naval Science 1, 2, and 3, and to take a more in-depth look at what leadership is, and how to maximize your abilities in the leadership area.

SCIENCE AND TECHNOLOGY COURSES

Science and Technology Course of Study	
GRADE 9	GRADE 10
Regents Living Environment Regents Earth Science	Regents Earth Science Regents Chemistry
GRADE 11	GRADE 12
Regents Chemistry Regents Physics Anatomy/Physiology IB DP Biology SL IB DP Environmental Systems and Societies SL IB DP Sports Exercise and Health Sciences	Regents Physics Zoology Environmental Science AP Physics SUPA Biology SUPA Forensic Science SUPA Physics ESF Global Environment ESF Introduction to Renewable Energy ESF Research Experience ESF Introduction to Renewable Energy ESF Biology

ENGINEERING COURSES

TEC720/TEC721 IB DP Design Technology HL I & II (2 credits, 1 per year) IB ELECTIVE OPTION

DP Design Tech aims to develop internationally minded people whose enhanced understanding of design and the technological world can facilitate our shared guardianship of the planet and create a better world. Inquiry and problem-solving are at the heart of the subject. DP design technology requires the use of the design cycle as a tool, which provides the methodology used to structure the inquiry and analysis of problems, the development of feasible solutions, and the testing and evaluation of the solution. DP Design Tech achieves a high level of design literacy by enabling students to develop critical-thinking and design skills, which they can apply in a practical context. While designing may take various forms, it will involve the selective application of knowledge within an ethical framework. Offered at Corcoran

EGR 740 Design and Drawing for Production (1 credit)

This course combines basic technical drawing with solving design problems such as a car for the 21st century. The building of models of the student's designs is also used to help understand three-dimensional form. This course may be used for the required art credit. Offered at Corcoran, Henninger

EGR 741 INTRODUCTION TO ENGINEERING DESIGN (IED) (1 Credit)

Pre-requisite: None

Grade: 9 - 10

In this course, students use 3D solid modeling design software to help them design solutions to solve proposed problems. Students will learn how to document their work and communicate solutions to peers and members of the professional community. This course is designed for 9th or 10th grade students. The major focus of the IED course is to expose students to the design process, research and analysis, teamwork, communication methods, global and human impacts, engineering standards, and technical documentation. *NCAA Approved*
Offered at Corcoran, Nottingham

EGR 742 COMPUTER INTEGRATED MANUFACTURING (CIM) (1 Credit)

Manufactured items are part of everyday life, yet most students have not been introduced to the high-tech, innovative nature of modern manufacturing. This course illuminates the opportunities related to understanding manufacturing. At the same time, it teaches students about manufacturing processes, product design, robotics, and automation. Students can earn a virtual manufacturing badge recognized by the National Manufacturing Badge system.

EGR 743 ENGINEERING DESIGN AND DEVELOPMENT (EDD) (1 Credit)

Pre-requisite: DDP and one other PLTW course

Grade: 11 - 12

This capstone course allows students to design a solution to a technical problem of their choosing. They have the chance to eliminate one of the “Don’t you hate it when...” statements of the world. This is an engineering research course in which students will work in teams to research, design, test, and construct solution to an open-ended engineering problem. The product development lifecycle and a design process are used to guide and help the team to reach a solution to the problem. The team presents and defends their solution to a panel of outside reviewers at the conclusion of the course. The EDD course allows students to apply all the skills and knowledge learned in previous Project Lead The Way courses. The use of 3D design software helps students design solution to the problems their team has chosen. *NCAA Approved* Offered at Nottingham

EGR 744 PRINCIPLES OF ENGINEERING (POE) (1 Credit)

Pre-requisite: Passing grade in DDP or student who is on grade level for math and science

Grade: 10 - 11

This survey course of engineering exposes students to some of the major concepts they’ll encounter in a postsecondary engineering course of student. Students have an opportunity to investigate engineering and high-tech careers and to develop skills and understanding of course concepts. Students employ engineering and scientific concepts in the solution of engineering design problems. They develop problem-solving skills and apply their knowledge of research and design to create solutions to various challenges. Students also learn how to document their work and communicate their solution to peers and members of the professional community. This course is designed for 10th and 11th grader students. Offered at Corcoran, Henninger, Nottingham

EGR 746 DIGITAL ELECTRONICS (DE) (1 Credit)

Pre-requisite: DDP and strong math skills at grade level or higher

Grade: 10 - 11

This course is the study of electronic circuits that are used to process and control digital signals. Digital electronics is the foundation of all modern electronic devices such as cellular phones, MP3 players, laptop computers, digital camera, and high-definition televisions. The major focus of the DE work is to expose students to the design process of combinational and sequential logic design, teamwork, communication methods, engineering standards, and technical documentation. This course is designed for 10th and 11th grader students. Offered at Corcoran, Nottingham

EGR 751 HUMAN BODY SYSTEMS (1 Credit)

Students examine the interactions of human body systems as they explore identity, power, movement, protection, and homeostasis. Exploring science in action, students build organs and tissues on a skeletal Maniken®; use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration; and take on the roles of biomedical professionals to solve real-world medical cases. Offered at Henninger

EGR 752 MEDICAL INTERVENTIONS (1 Credit)

Students follow the life of a fictitious family as they investigate how to prevent, diagnose, and treat disease. Students explore how to detect and fight infection; screen and evaluate the code in human DNA; evaluate cancer treatment options; and prevail when the organs of the body begin to fail. Through real-world cases, students are exposed to a range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, and diagnostics.

SCI718 CP Personal and Professional Skills (1 credit)

The personal and professional skills course aims to develop responsibility, practical problem-solving, good intellectual habits, ethical understandings, perseverance, resilience, an appreciation of identity and perspective, and an understanding of the complexity of the modern world. Emphasis is on the development of skills needed to successfully navigate higher education, the workplace and society. With that in mind the PPS will be very practical in nature. A minimum of 90 timetabled hours will be devoted to the personal and professional skills course. Offered at Corcoran

SCI 101 REGENTS EARTH SCIENCE (1 Credit)

Earth Science is a lab-oriented one-year Regents course for students of above average ability in reading comprehension and math. Successful students should be able to: determine density, gradient, rate of change and eccentricity, use scientific notation, construct graphs using scales, which are appropriate for the data, determine direct and inverse relationships, identify rocks and minerals, and draw and determine epicenter locations extrapolate from and interpolate with a set of data. Topics in Earth Science include the study of Earth in Space, the Earth's Atmosphere, Meteorology, Climate, Weathering and Erosion, Plate Tectonics, and Topography. Lab requirement – minimum of 1200 minutes of satisfactorily completed labs. A minimum of 1200 minutes of satisfactory laboratory reports is required for admittance to the examination. *NCAA Approved*
Offered at all High Schools

SCI 102 ENVIRONMENTAL SCIENCE (1 Credit)

Prerequisite: Science 9 or Earth Science or Biology

This course will be an outdoor course of study using the natural communities surrounding the high schools. Students will enhance their awareness of the natural environment by investigating ponds and streams, as well as local fields and wooded areas. Environmental Science is a “hands on” course in which students increase their observations and decision-making skills by using taxonomic keys to identify various life forms. Specimens that will be observed and/or keyed include: trees and wild flowers (with or without foliage), non-flowering plants, and aquatic plants and animals. Students will also have the opportunity to observe outside, many of the ecological relationships and principles that they have studied in the classroom in biology. Mapping and compass skills will also be a component of this course as well as learning to assess the quality of water, soil, and air by using various testing procedures. This course will also be studying the dynamic Earth which includes layers, plate tectonics, and the Earth's cycles. A portion of this course also focuses on air atmosphere and climate change. Students then will investigate human impact topics such as pollution, sustainability, nonrenewable and renewable resources and the greenhouse effect. **This course cannot be utilized to fulfill the requirement for a college prep sequence.**
NCAA Approved Offered at all High Schools

ONONDAGA COMMUNITY COLLEGE PHYSICS (PHY 103-General Physics I, PHY 104-General Physics II)

PHY 103-General Physics I: The first semester of a two-semester, basic, non-calculus General Physics course emphasizing fundamental concepts and principles with a problem-solving approach. Topics covered include Kinematics and Dynamics, Newton's Laws, Work and Energy, Momentum, Rotational Motion, Heat and Thermodynamics. A minimum of 1200 minutes of satisfactory laboratory reports is required for admittance to the examination.

PHY 104-The continuation of PHY 103. Topics covered include Vibrations and Wave motion, Physical and Geometrical Optics, Electricity and Magnetism, simple AC and DC Circuits. A minimum of 1200 minutes of satisfactory laboratory reports is required for admittance to the examination.

SCI 201 REGENTS LIVING ENVIRONMENT (BIOLOGY) (1 Credit)

Regents Living Environment is a lab-oriented, compressive study of biological principals. Students will understand and apply scientific concepts, principles, and theories pertaining to the living environment and recognize the historical development of ideas in this field of science. This is a rigorous course requiring students to utilize reading, study and higher-order thinking skills. Successful students should be able to: Apply appropriate measurement skills to assess the magnitude components with in microscopic to global environments; Make and record observations in order to identify changes in biological systems over time; Construct graphs using scales that are appropriate for the data; Generalize as well as extend complex vocabulary in the identification of organism and structures found within an ecosystem. Topics in Living Environment include: comparing and contrasting characteristics between and among living organisms; biochemistry and biochemical processes; exploration of processes that guide homeostasis; sexual and asexual reproduction, human development; genetics and genomics; evolution and assessment of evolutionary mechanics; ecology and impact of human processes on the environment; development of inquiry skills; and laboratory skills. Successful completion of this course requires students to complete a minimum of 1200 minutes of laboratory problems as demonstrated through written lab reports. A minimum of 1200 minutes of satisfactory laboratory reports is required for admittance to the examination. *NCAA Approved* Offered at all High Schools

SCI 210 ANATOMY/PHYSIOLOGY (1 Credit) Prerequisite: Regents Living Environment

This is a Human Biology course that uses the learning-cycle method of instruction that consists of three phases: exploration, term introduction, and concept application. The learning cycle provides students' freedom to inquire into chemical and biological phenomena, stimulates their interest and curiosity, and allows them to discover key patterns of regularity in those phenomena. An emphasis is placed on active student participation maximizing the understanding of the investigative process. Thus, this course has been developed to teach students in the way they learn best – group discussion, and discovery. This is an activity- and inquiry-based course. The goal of this course is to be lively, engaging, and relevant to the students and the world we all live. This course will introduce the students to the realistic methods of science through activities that will require moderate thinking. This course has been designed to foster the development of the student's creative and critical biological thinking skills. This course will provide students with discussion of and activities/experiments in the use biological concepts to promote scientific reasoning. An emphasis in this course has not only been placed on teaching students appropriate biological methods of inquiry but also biological theories through active student participation, thereby maximizing the student's biological knowledge obtained as well as their understanding of the nature of the investigative process within the biology discipline. *NCAA Approved* Offered at all High Schools

SCI 301 REGENTS CHEMISTRY (Grade 11/1 Credit) Prerequisite: Passed at least one Science Regents

This is a lab-oriented, in depth study of the principles and processes involved with in the interaction of materials in the physical world. Students will understand and apply scientific concepts, principles, and theories pertaining to the physical setting of our world and recognize the historical development of ideas in this field of science. This is a rigorous course requiring students to utilize advanced reading, mathematics and higher-order thinking skills. Mathematic requirements assume students have successfully mastered the concepts found in Integrated Algebra. Successful students should be able to:

- Apply appropriate measurement skills to assess the magnitude components in a given system
- Make and record observations and measurements in order to identify changes in a systems over time
- Construct graphs using scales that are appropriate for the data
- Apply algebraic models to analyze chemical systems
- Use scientific notation and correctly apply significant figures
- Determine yields in percent as well as calculate relative error
- Generalize as well as extend complex vocabulary in the identification of chemical processes and principles.

Regents Chemistry deals with the structure, composition and properties of matter. Topics in Chemistry include: matter and energy; atomic theory and structure of the atom; periodic order found among elements, nuclear change and radio activity, chemical bonding and reactivity; chemical equilibrium; solutions and gasses; electrochemistry; organic chemistry; development of inquiry skills; and laboratory skills. Successful completion of this course requires students to complete a minimum of 1200 minutes of laboratory problems as demonstrated through written lab reports. A minimum of 1200 minutes of satisfactory laboratory reports is required for admittance to the examination. *NCAA Approved* Offered at all High Schools

SCI 401 REGENTS PHYSICS (*Grades 11-12/1 Credit*) *Prerequisite: Passed 2 years of Math; Algebra, Geometry*

Regents Physics is a lab-oriented, in depth study of the principles and processes involved with the fundamental laws of nature. Students will understand and apply scientific concepts, principles, and theories pertaining to the physical setting of our world and recognize the historical development of ideas in this field of science. This is a rigorous course requiring students to utilize advanced reading, mathematics and higher-order thinking skills. Mathematic requirements assume students have successfully mastered the concepts found in Integrated Algebra. Successful students should be able to:

- Apply appropriate measurement skills to assess the magnitude components in a given system
- Make and record observations and measurements in order to identify changes in a systems over time
- Construct graphs using scales that are appropriate for the data
- Apply algebraic models to analyze physical systems
- Use scientific notation and correctly apply significant figures
- Determine results and calculate percent as well as relative error
- Generalize as well as extend complex vocabulary in the identification of chemical processes and principles.

Regents Physics deals with the flow of energy between and among systems. Topics in Physics include: classical mechanics; wave and wave phenomena, electricity and magnetism, atomic and nuclear physics; development of inquiry skills; and laboratory skills. Successful completion of this course requires students to complete a minimum of 1200 minutes of laboratory problems as demonstrated through written lab reports. *NCAA Approved* A minimum of 1200 minutes of satisfactory laboratory reports is required for admittance to the examination. *NCAA Approved* Offered at all High Schools

SCI 421 ADVANCED PLACEMENT PHYSICS (*Grades 11-12/ 1 Credit weighted*)

Prerequisites: Successful completion of three years of high school math at or beyond Algebra II

AP Physics 1 is an algebra-based, introductory college-level physics course. Students cultivate their understanding of Physics through inquiry-based investigations as they explore topics such as Newtonian mechanics (including rotational motion); work, energy, and power; mechanical waves and sound; and introductory, simple circuits. This course requires that 25 percent of the instructional time will be spent in hands-on laboratory work, with an emphasis on inquiry-based investigations that provide students with opportunities to apply the science practices. A minimum of 1200 minutes of satisfactory laboratory reports is required for admittance to the examination. *NCAA Approved* Offered at Nottingham

SCI 714 IB DP BIOLOGY SL (1 Credit weighted) *Prerequisite: 2 Regents Level science courses 2 Semesters*

This course is designed to be the equivalent of a college introductory-level Biology course. The goals of this course are to:

- provide students with a body of biological knowledge and the methods used to apply this knowledge to current issues relating to science and technology.
- develop experimental and investigative skills and an appreciation of science as a process.
- raise awareness of the moral, social, economic and environmental implications of using science and technology on a global scale.

Topics include: cell and molecular biology, cellular energetics, genetics, ecology, evolution, human anatomy and physiology, neurobiology and behavior. Approximately 40 hours of the course will consist of rigorous labs (practical investigation) including 10 hours devoted to an IB group project. Pre-requisites: 2 Regents-level science courses. *NCAA Approved* Offered at Corcoran

SCI 716 IB DP ENVIRONMENTAL SYSTEMS AND SOCIETIES SL (1 Credit weighted) *Prerequisite: 2 years Regents Level Science 2 Semesters*

This course is designed to enable students to develop a scientific understanding of the environment that will enable them to adopt an informed and responsible stance on many pressing environmental issues. Students will evaluate the scientific, ethical and socio-political aspects of these issues. This course will examine the structure and functioning of natural systems and how they have been impacted by human activity. Issues of both local and global nature will be examined, including pollution, ozone depletion, global warming, acid rain, and population growth. Students in this course are required to take the IB Environmental Systems Exam. Pre-requisites: 2 Regents-level science courses. *NCAA Approved* Offered at Corcoran

SCI717 IB DP SPORTS EXERCISE AND HEALTH SCIENCES (1 Credit weighted)

SEHS explores the science underpinning physical performance and provides the opportunity to apply these principles. The course incorporates the disciplines of anatomy and physiology, biomechanics, psychology and nutrition. The course offers a deeper understanding of the issues related to sports, exercise and health in the 21st century and addresses the international dimension and ethics related to both the individual and global context. SEHS is good preparation for courses in higher or further education related to sports fitness and health and serves as useful preparation for employment in sports and leisure industries. *NCAA Approved* Offered at Corcoran

SCI 752 SYRACUSE UNIVERSITY PROJECT ADVANCE (SUPA) BIOLOGY

(Grade 12/1 Credit weighted/8 Credits BIO121 and 123) *Prerequisites: Regents Biology and Regents Chemistry*

This is a two-semester, eight-credit college elective course offered through Syracuse University. The course teaches modern biological concepts, including classification of organisms, ecology, human influences on natural ecosystems, microscopy, cells, organic and inorganic chemistry, animal development, genetics, energy, and plant structure and function. During a session, the student may be asked to carry out an experiment, view a demonstration, interpret experimental results, and make a drawing to document observations, and so on.

A minimum of 1200 minutes of satisfactory laboratory reports is required for admittance to the examination.

NCAA Approved Offered at Henninger, Nottingham

SCI 754 SYRACUSE UNIVERSITY PROJECT ADVANCE (SUPA) FORENSIC SCIENCE

(1 Credit weighted/4 Credits CHE 113)

This elective course is intended to provide an introduction to understanding the science behind crime detection. Recent advances in scientific methods and principles have had an enormous impact upon law enforcement and the entire criminal justice system, and this course will present a number of those methods that are relevant to crime detection and analysis. The course will emphasize the techniques used in evaluating physical evidence; laboratory exercises will include techniques commonly employed in forensic investigations. Topics included are blood analysis, organic and inorganic evidence analysis, microscopic investigations, hair analysis, DNA, drug chemistry and toxicology, fiber comparisons, paints, glass composition and fragmentation, fingerprints, soil comparisons, and arson investigations, among others. A minimum of 1200 minutes of satisfactory laboratory reports is required for admittance to the examination. *NCAA Approved* Offered at Henninger, Nottingham

SCI 755 SYRACUSE UNIVERSITY PROJECT ADVANCE (SUPA) PHYSICS

(Grade 12/1 Credit weighted/8 Credits PHY 101 and 102)

This algebra-based elective course includes a regularly scheduled lab and provides the necessary physics background for health professionals and others who need physics but are not required to take a calculus-based course. The first semester, will cover traditional topics in mechanics, such as kinematics, Newton's laws, circular motion, gravity and planetary motion, work, energy, momentum, rotational motion, vibrations, and kinetic theory. First semester stresses problem solving and conceptual understanding. The second semester, treats topics dealing with electricity, magnetism, and optics. A minimum of 1200 minutes of satisfactory laboratory reports is required for admittance to the examination. *NCAA Approved* Offered at Henninger, Nottingham

SCI 760 SUNY COLLEGE OF ENVIRONMENTAL SCIENCE AND FORESTRY (ESF) GLOBAL ENVIRONMENT

(1 Credit/3 Credits EFB 120)

Prerequisites: Successful completion of NYS Regents Earth Science, Regents Biology, and be concurrently registered for and taking NYS Regents Chemistry as they are taking EFB 120 (or have already successfully completed NYS Regents Chemistry)

The Global Environment helps students gain the knowledge and tools necessary to make informed decisions regarding the environment and the earth's future. Students will acquire an understanding of the connections between such varied topics as pollution, deforestation, climate change, acid rain, soil depletion, economics, evolution, history and social justice. The elective course stresses a science based systems approach in evaluating problems and potential solutions as well as the critical role of energy in many of the environmental challenges facing the world. A minimum of 1200 minutes of satisfactory laboratory reports is required for admittance to the examination. *NCAA Approved* Offered at ITC, Nottingham

SCI 761 SUNY COLLEGE OF ENVIRONMENTAL SCIENCE AND FORESTRY (ESF) RESEARCH EXPERIENCE

(1/2 Credit/1 Credit ESF 296)

This elective course is designed to emphasize the integration between chemistry and biology, and help you continue developing and honing your science communication skills. Throughout the semester, we will provide regular opportunities to debrief about the lab experiments and concepts, and discuss the connections between chemistry and biology content and techniques; to synthesize what you are learning through "writing to learn" activities intended to work as catalysts in developing new understandings of the lab and lecture course material; to observe demonstrations of interdepartmental science and engage with panels of scientists and faculty members from across the disciplines; and to learn and practice new genres of scientific communication (namely, the poster presentation). A minimum of 1200 minutes of satisfactory laboratory reports is required for admittance to the examination. Offered at Nottingham

SCI 762 SUNY COLLEGE OF ENVIRONMENTAL SCIENCE AND FORESTRY (ESF)
INTRODUCTION TO RENEWABLE ENERGY (1 Credit/3 Credits FCH 496)

This elective course is an opportunity for a special problem, technique development, independent or unstructured study in an area related to the chemical profession. The work may be technical, professional, or interdisciplinary. Advisors outside this department may be solicited. A brief proposal must be presented for approval with specific arrangements outlined including faculty advisor and objectives of the study. A written report will be expected. A minimum of 1200 minutes of satisfactory laboratory reports is required for admittance to the examination. Offered at Nottingham

SCI 763 SUNY COLLEGE OF ENVIRONMENTAL SCIENCE AND FORESTRY (ESF) BIOLOGY
(1 Credit/3 Credits EFB 101 and 102)

This elective course is an introductory exploration of biological principles at ecosystem, population, and organismal levels. Emphasis on form, function, diversity, ecology and evolution of living organisms. Major concepts of organismal biology and ecology will be reinforced with hands-on laboratory exercises and required field trips exploring the form, function, diversity, ecology, and evolution of living organisms. A minimum of 1200 minutes of satisfactory laboratory reports is required for admittance to the examination. *NCAA Approved* Offered at ITC

SCI 901 ZOOLOGY (Grades 11- 12/1 Credit) *Prerequisites: Science 9 or Earth Science, Biology and Chemistry (Chemistry concurrently)*

The Zoology course is designed for students having special interests and abilities in this area of science. Selection is based on above-average achievement in General Science (or Earth Science), Regents Biology, and Regents Chemistry. The instructor's permission is needed for any exception to this preparation. Opportunities are presented to explore, in depth, animal-related topics beyond those covered in the regular science programs. The study areas include permanent microscope slide mounting, vertebrate dissections (usually sharks), plastic embedding, scientific photography, and selected field experiences. This Zoology course is expected to articulate with the recently developed "Outreach Program" at Burnet Park Zoo. Lab requirement – minimum 1 period per week. *NCAA Approved* Offered at Corcoran, Henninger, Nottingham, PSLA

TECH 720 IB DESIGN TECHNOLOGY HL-I (1 Credit)

TECH 721 IB DESIGN TECHNOLOGY HL-II (1 Credit)

This topic introduces the design cycle model—a fundamental concept underpinning the design process and central to a student's understanding of design activities. Each element of the design cycle represents how designers progress through the design process to refine the design solution in increasing detail. The topic then moves on to focus on the strategies that designers use to arrive at solutions to problems and the varied nature of the skills and knowledge they need to carry out their activities successfully. The skills identified in this topic should be reflected in the internal assessment (IA) and reinforced throughout the course. At HL, the design project requires students to identify a problem and develop a solution. It is assessed against four common criteria:

- Analysis of a design opportunity
- Conceptual design
- Development of a detailed design
- Testing and evaluation
- Commercial production
- Marketing strategies

The course is assessed through a multiple choice paper (paper 1), a core paper, which consists of a short response and extended answer questions (paper 2), the internal assessment design project (paper 3), three structured questions based on the HL extension material, one of which is based on a case study. Offered at Corcoran

SOCIAL SCIENCES AND HISTORY

Social Sciences and History Course of Study	
GRADE 9	GRADE 10
<p>Students take <u>one</u> of the following courses:</p> <ul style="list-style-type: none"> SOC 203 EARLY WORLD HISTORY: INDIVIDUALS AND SOCIETIES MYP Year 4 	<p>Students take <u>one</u> of the following courses:</p> <ul style="list-style-type: none"> SOC 204 GRADE 10 REGENTS GLOBAL HISTORY & GEOGRAPHY SOC 222 (AP) WORLD HISTORY SOC 204_IB GLOBAL HISTORY: INDIVIDUALS AND SOCIETIES MYP Year 5
GRADES 9-10 ELECTIVE COURSES	
<ul style="list-style-type: none"> SOC 600 CULTURAL ANTHROPOLOGY 	<ul style="list-style-type: none"> SOC 600 CULTURAL ANTHROPOLOGY
GRADE 11	GRADE 12
<p>Students take <u>one</u> of the following courses:</p> <ul style="list-style-type: none"> SOC 301 GRADE 11 REGENTS UNITED STATES HISTORY AND GOVERNMENT SOC 321 ADVANCED PLACEMENT (AP) UNITED STATES HISTORY SOC 753 SYRACUSE UNIVERSITY PROJECT ADVANCE (SUPA) AMERICAN HISTORY 	<p>Students take <u>one</u> of the following courses:</p> <ul style="list-style-type: none"> SOC 451 ACTIVE CITIZENSHIP SOC920/SOC762 AP GOVERNMENT/ESF GOVERNMENT SOC 403 ESF GOVERNMENT/ECONOMICS <p>Note: Students may <u>NOT</u> take an elective listed below as a grade 12 requirement towards graduation.</p>
GRADES 11-12 ELECTIVE COURSES	
<ul style="list-style-type: none"> SOC 600 CULTURAL ANTHROPOLOGY SOC 930 AFRICAN AMERICAN STUDIES 	<ul style="list-style-type: none"> SOC 600 CULTURAL ANTHROPOLOGY SOC 930 AFRICAN AMERICAN STUDIES
OTHER ELECTIVE COURSES	
<p>SYRACUSE UNIVERSITY PROJECT ADVANCE</p> <p><i>All students must pass both Regents Global History and Geography and Regents United States History and Government Exams in order to be enrolled in any of the following SUPA courses.</i></p>	<p>INTERNATIONAL BACCALAUREATE</p> <p><i>All students must be enrolled in the International Baccalaureate Program to be able to register for the IB elective courses below.</i></p>
<ul style="list-style-type: none"> SOC 750 SYRACUSE UNIVERSITY PROJECT (SUPA) ADVANCED SOCIOLOGY SOC 751 SYRACUSE UNIVERSITY PROJECT ADVANCE (SUPA) PSYCHOLOGY SOC 756 SYRACUSE UNIVERSITY PROJECT ADVANCE (SUPA) PUBLIC POLICY SOC 702 SYRACUSE UNIVERSITY PROJECT ADVANCE (SUPA) GENDER STUDIES (<i>Beginning September 2021</i>) 	<ul style="list-style-type: none"> SOC 716: IB THEORY OF KNOWLEDGE (TOK) I SOC 717: IB THEORY OF KNOWLEDGE (TOK) II SOC 724: DP PSYCHOLOGY HLI SOC 725: D{ PSYCHOLOGY HLII
SOC 800 SUNY COLLEGE OF ENVIRONMENTAL SCIENCE AND FORESTRY (ESF) CONSERVATION PSYCHOLOGY	

Grade 9

SOC 203 GRADE 9 EARLY WORLD HISTORY *(1 Credit required)*

Early World History is the official course for grade 9 social studies. This course begins with the Paleolithic Era and the development of the first civilizations, continues with an examination of classical societies, and traces the expansion of trade networks and their global impact. The course emphasizes the key themes of interactions over time, shifts in political power, and the role of belief systems. This course introduces the skills in social studies necessary for the grade 10 Regents course in Global History and Geography **Quarterly authentic assessments are given focusing on the writing process in the field of history.** NCAA Approved Offered at all High Schools

Grade 10

SOC 204 GRADE 10 REGENTS GLOBAL HISTORY AND GEOGRAPHY

(1 Credit required)

Grade 10 Regents Global History and Geography provides a snapshot of the world circa 1750. The course continues chronologically up to the present. Several concepts are woven throughout the course including industrialization, nationalism, imperialism, conflict, technology, and the interconnectedness of the world. The last three Key Ideas focus on global issues, applying a more thematic approach. **NYS Regents Exam at the end of this course. *Student must have passed Grade 9 Early World History in order to take this course as this is part of a trajectory of skills and content acquisition is needed for mastery of learning.** NCAA Approved Offered at all High Schools

Students may register for the following course instead of SOC 204

SOC 222 ADVANCED PLACEMENT (AP) WORLD HISTORY *(1 Credit weighted)*

AP World History focuses on developing students' abilities to think conceptually about world history from approximately 8000 BCE to the present and apply historical thinking skills as they learn about the past. Five themes of equal importance — focusing on the environment, cultures, state-building, economic systems, and social structures — provide areas of historical inquiry for investigation throughout the course. AP World History encompasses the history of the five major geographical regions of the globe: Africa, the Americas, Asia, Europe, and Oceania, with special focus on historical developments and processes that cross multiple regions.

AP and NYS Regents Exam at the end of this course. *NCAA Approved* Offered at Nottingham

Grade 11

SOC 301 GRADE 11 REGENTS UNITED STATES HISTORY AND GOVERNMENT

(1 Credit required)

This course is an in-depth overview of the history and government of the United States from Exploration to current history. It explores the shaping of America's political, social, economic, military and cultural development. A major focus of this course is a study of the government under the U.S. Constitution and history from multiple perspectives. Students are called upon to examine the impact of social justice, civil rights, and civic action across time.

NYS Regents Exam at the end of this course. *NCAA Approved* Offered at all High Schools

Or Students may register for one of the following courses instead of SOC 301

SOC 321 ADVANCED PLACEMENT (AP) UNITED STATES HISTORY (1 Credit weighted)

AP United States History is an elective course that focuses on developing students' abilities to think conceptually about U.S. history from approximately 1491 to the present and apply historical thinking skills as they learn about the past. Seven themes of equal importance — identity; peopling; politics and power; work, exchange, and technology; America in the world; environment and geography; and ideas, beliefs, and culture — provide areas of historical inquiry for investigation throughout the course. These require students to reason historically about continuity and change over time and make comparisons among various historical developments in different times and places. **AP and NYS Regents Exam at the end of this course.** *NCAA Approved* Offered at Nottingham

SOC 753 SYRACUSE UNIVERSITY PROJECT ADVANCE (SUPA) AMERICAN HISTORY

(1 Credit weighted/6 Credits HST 101 and 102)

The American History sequence is a full-year college elective course comprised of History 101: American History to 1865 and History 102: The United States Since 1865. In this course we will study American attitudes and beliefs about political democracy, social justice, economic opportunity, equality, and the environment, and we will trace how those attitudes and beliefs have evolved in the first two-and-a-half centuries of American history. We will study history as a process through which our society and our country came to be as they are today. It is hoped that, by the end of the course, students will not only know more about the American experience, but will have learned how to read critically, to construct persuasive arguments, to use evidence effectively, and to hone a variety of crucial analytic skills.

NYS Regents Exam at the end of this course. *NCAA Approved* Offered at ITC, Henninger, Nottingham

Grade 12

SOC 451 ACTIVE CITIZENSHIP (1 Credit Required)

The Active Citizenship course is the brand-new grade 12 requirement that used to be called Participation in Government and Economics. This one-year course addresses the concept of civic action in much detail and calls on students to do extensive research on issues impacting their local community, state and nation from a critical lens of social justice. The course embeds important skills in civics and economics. **A mandatory Civic Action Portfolio of Performance Tasks is assigned that students must pass for successful completion of this course.** *NCAA Approved* Offered at all High Schools

AP GOVERNMENT/ESF GOVERNMENT (1 Credit Required) Offered at Nottingham

Students complete the following studies within this one- year course:

- **SOC 920 AP Government and Politics** (*1/2 Credit*) *NCAA Approved*
introduces students to key political ideas, institutions, policies, interactions, roles, and behaviors that characterize the political culture of the United States. The elective course examines politically significant concepts and themes, through which students learn to apply disciplinary reasoning assess causes and consequences of political events and interpret data to develop evidence-based arguments. **AP Exam administered as final assessment.**
- **SOC 762 ESF GOVERNMENT** (*3 ESF Credits*) (*1/2 Credit*)
This class introduces the American political system: the actors, institutions, and processes that shape the way our country is governed. The main goal of the course is to develop your ability to think about and analyze political phenomena, especially in the American context. You will become acquainted with competing theories that seek to explain how key events or patterns develop. Although this is not a course in current events, I do encourage you to stay informed about the news. By the end of the course, you will understand how the American political system operates, and how it has changed over time. You will also know more about the forces that have shaped the system, in other words, what caused the change. While the specific information you learn in this course may fade over time, the skills you learn will stay with you. The format of the course varies from session to session and includes a mix of lectures, guest speakers, films, and group exercises.

ESF GOVERNMENT/ECONOMICS (*1 Credit*) Offered at Nottingham

Students complete the following studies within this one- year course:

- **SOC 761 THE ECOLOGY OF THE ECONOMIC PROCESS** (*3 ESF Credits*) (*1/2 Credit*)
An approach to economics as a natural, rather than a social science. Examination of the ecology of human-dominated ecosystems including cities, agricultural areas, and fisheries. Review of basic ideas of value, classical, neoclassical, and biophysical economics. Examines an alternative model emphasizing analysis of energy and material flows and their control. Case studies will focus on the developing economies of the tropics
- **SOC 762 ESF GOVERNMENT** (*3 ESF Credits*) (*1/2 Credit*)
This class introduces the American political system: the actors, institutions, and processes that shape the way our country is governed. The main goal of the course is to develop your ability to think about and analyze political phenomena, especially in the American context. You will become acquainted with competing theories that seek to explain how key events or patterns develop. Although this is not a course in current events, I do encourage you to stay informed about the news. By the end of the course, you will understand how the American political system operates, and how it has changed over time. You will also know more about the forces that have shaped the system, in other words, what caused the change. While the specific information you learn in this course may fade over time, the skills you learn will stay with you. The format of the course varies from session to session and includes a mix of lectures, guest speakers, films, and group exercises.

INTERNATIONAL BACCALAUREATE CORE SOCIAL STUDIES COURSES

SOC 203 IB/204 IB INDIVIDUALS AND SOCIETIES

Students enrolled in the International Baccalaureate Program at Corcoran High School must register and complete four years of social studies. The first two years in grades 9 and 10 students complete their fourth and fifth year of the Middle Years Program of the Individuals and Societies course they began in middle school.

Individuals and Societies incorporates disciplines traditionally studied in the humanities, as well as disciplines in the social sciences. In this subject group, students collect, describe and analyze data used in studies of societies, test hypotheses, and learn how to interpret complex information, including original source material. This focus on real-world examples, research and analysis is an essential aspect of the subject group. The subject encourages learners to respect and understand the world around them and equips them with the necessary skills to inquire into historical, contemporary, geographical, political, social, economic, religious, technological and cultural factors that have an impact on individuals, societies and environments. It encourages learners, both students and teachers, to consider local and global contexts. Offered at Corcoran

SOC 203 IB EARLY WORLD HISTORY INDIVIDUALS AND SOCIETIES MYP YEAR FOUR (1 Credit) NCAA Approved Offered at Corcoran

SOC 204 IB GLOBAL HISTORY INDIVIDUALS AND SOCIETIES MYP YEAR FIVE (1 Credit) NCAA Approved Offered at Corcoran *NYS Regents Exam at the end of this course.*

THEORY OF KNOWLEDGE (TOK)

Theory of knowledge (TOK) plays a special role in the International Baccalaureate® (IB) Diploma Program (DP), by providing an opportunity for students to reflect on the nature of knowledge, and on how we know what we claim to know. It is one of the components of the DP core and is mandatory for all students. The TOK requirement is central to the educational philosophy of the DP. Offered at Corcoran

SOC 716: IB THEORY OF KNOWLEDGE (TOK) I (1/2 Credit) NCAA Approved

SOC 717: IB THEORY OF KNOWLEDGE (TOK) II (1/2 Credit) NCAA Approved

SOC 722: IB DP History of the Americas HL I (1 credit)

Built upon the foundations begun in European history, students will be pushed to seek an understanding of their own historical heritage in relation to the American community as a whole. The course will demonstrate the value of cultural diversity as exemplified by the American civic mandate: out of many, one. The course uses a chronological study of American history that creates a broad outline for course study the enable the freedom for detailed analysis of persistent, topical themes. This course will study political, social, economic, racial, and other thematic issues, movements, and events that tell the American story. A heavy emphasis on reading and writing will be employed using historical evidence found in both primary and secondary sources. This course is offered in lieu of US History; however, students are still required to take and pass the NYS US History Regents Exam. NCAA Approved Offered at Corcoran

SOC 723 IB DP History of the Americas HL II (1 credit)

This course requires students to study a selection of twentieth century world topics. Topics include the causes and effects of war, rise and rule of single party states, Independence and Democratic movements. Examination of topics includes a holistic approach with political, social, economic, cultural, and gender issues integrated into the course work where and when appropriate. Students will learn to evaluate, interpret, and use source material critically as historical evidence. This course is offered in lieu of the NYS graduation requirement for Economics and Participation in Government. NCAA Approved Offered at Corcoran

IB DP PSYCHOLOGY

This is a two-year course that focuses on the biological, cognitive, and socio-cultural levels of behavior in the human population. Students will read, analyze, and conduct research that develops insight within these levels and their application to society. Students will use research methodology and will carry out their own experimental study. Offered at Corcoran

SOC 724: DP PSYCHOLOGY HLI (1 Credit) Offered at Corcoran NCAA Approved

SOC 725: DP PSYCHOLOGY HLII (1 Credit) Offered at Corcoran NCAA Approved

SOC 600 CULTURAL ANTHROPOLOGY (1 Credit)

This elective course surveys and explains the cultural, linguistic, and biological legacy of humankind, from antiquity to the present, using the research tools of anthropology. Anthropology is both a scientific and humanistic endeavor that attempts to explain the differences and similarities between and among human groups. Anthropology studies where people come from, who they are, what they do, and why they do it. This elective serves as a great companion course to Early World History and Global History and Geography courses. NCAA Approved Offered at all High Schools

SOC930 AFRICAN AMERICAN STUDIES (1 Credit Required)

The African American Studies course in the Syracuse City School District is designed to provide learners with a unique opportunity to thematically examine the discipline of African American Studies through a lens of civic action. Beginning with a historical, geographic, social, political, economic, and cultural understanding of the African continent and highlighting that African Americans are Africans born in America, the course will provide descriptive and corrective overview which will introduce students to the African diasporic experience. The essential question that will be asked throughout the course is “Citizenship; The African American experience”. Although the essential question is not presented as such, it allows students to call into question this ideology of American citizenship and tie it to the social, political, and economic evolution of the African American from Jamestown 1619 to a post President Barack Obama America. Learners will utilize a humanistic approach to our study as it allows for students to become familiar with multiple modes of interpretive methodologies as we explore, analyze, and take civic action in this African Diasporic experience. **A mandatory Civic Action Portfolio of Performance Tasks is assigned that students must pass for successful completion of this course.** NCAA Approved Offered at all High Schools

SYRACUSE UNIVERSITY PROJECT ADVANCED SOCIAL STUDIES ELECTIVE COURSES

**All students must pass both Regents Global History and Geography and Regents United States History and Government Exams in order to be enrolled in any of the following SUPA courses.*

SOC 702 SYRACUSE UNIVERSITY PROJECT ADVANCE (SUPA) Women's and Gender Studies (1/2 Credit weighted/3 Credit WGS 101)

This elective course is an introduction to the interdisciplinary field of women's and gender studies. It introduces students to concepts and issues that are foundational to the study of gender and sexuality. The course focuses on theorizations of power, domination, and patriarchy. It considers how gender is constructed, experienced, and expressed in various and complex ways across different historical periods and geographical spaces. The course approaches the study of gender by foregrounding a critical intersectional feminist lens that pays particular attention the categories of race, class, gender, and sexuality. Through engaging a variety of texts (including films, documentaries music, poetry and novels), students will work together to develop strategies and practices of reading historical issues, cultural products, and contemporary debates from feminist lenses and perspectives. Offered at ITC, Nottingham, Henninger

SOC 750 SYRACUSE UNIVERSITY PROJECT (SUPA) ADVANCED SOCIOLOGY (1/2 Credit weighted/3 Credit SOC101)

This is an elective analytic, skills-based introduction to sociology class that encourages students to see and think about the social world, themselves, and the relations between themselves and the social world in new ways. As this writing-intensive course progresses, students should develop increasing skill in analytic reading and writing, sociological reasoning, empirical research and investigation, and the ability to make empirical and conceptual generalizations about self and society in an increasingly global world. Major topics include: culture, groups, and social structure; the power and influence of the media; self and identity; social inequalities based on race, class, and gender; and social change. NCAA Approved Offered at Henninger, Nottingham

SOC 751 SYRACUSE UNIVERSITY PROJECT ADVANCE (SUPA) PSYCHOLOGY (1/2 Credit weighted/3 Credit PSY205)

This is an elective introductory psychology course that surveys the basic principles and research findings within the major areas of psychology, including learning, memory, cognition, development, personality, and social psychology. Students will be presented with opportunities to conduct their own research and to discuss current topics, events, real-life experiences, and applications of psychological theories and research. The course also provides a degree of freedom for students to pursue individual topics of interest. *NCAA Approved*
Offered at Henninger, Nottingham

SOC 756 SYRACUSE UNIVERSITY PROJECT ADVANCE (SUPA) INTRODUCTION TO THE ANALYSIS OF PUBLIC POLICY (1/2 Credit weighted/3 Credit PST 101)

Introduction to the Analysis of Public Policy is designed to provide students with basic research, communication, and decision-making skills used in public policy analysis. In addition, students are required to read and analyze articles in *The New York Times* on local, state, and international public policy issues. The instructor determines which public policy issues are chosen for study throughout the semester. Offered at Henninger

SUNY COLLEGE OF ENVIRONMENTAL SCIENCE AND FORESTRY (ESF)

SOCIAL STUDIES ELECTIVES**All students must pass both Regents Global History and Geography and Regents United States History and Government Exams in order to be enrolled in any of the following ESF courses*

SOC 754 SUNY COLLEGE OF ENVIRONMENTAL SCIENCE AND FORESTRY (ESF) ECONOMICS

(1 Credit weighted/3 Credits EFB 122)

A new approach to economics as a natural, rather than a social, science. i.e. the ecology of human-dominated ecosystems including cities, agricultural areas, fisheries and so on. The course reviews of basic ideas of value, classical, neoclassical, and biophysical economics. The particular focus of the class is on energy and on the developing economies of the tropics. NCAA Approved Offered at Nottingham

SOC 755 SUNY COLLEGE OF ENVIRONMENTAL SCIENCE AND FORESTRY (ESF)

PSYCHOLOGY *(1 Credit weighted/3 Credits EST366)*

Three hours of lecture per week. Historical roots of environmental attitudes, values, and ethics with special emphasis on how individual attitudes impact environmental issues. Perspectives on man's relationship and responsibility to nature. Value implications of ecological principles and concepts. Examples of current environmental issues are examined in this context. NCAA Approved Offered at Nottingham

VISUAL AND PERFORMING ARTS

	<u>Dance</u>	<u>Drama</u>	<u>Music</u>	<u>Visual Arts</u>
Approved for NYS Graduation Arts Credit			Mixed Chorus/Chorus (1) Concert Choir (1) Beginning Band (1) Band (1) Orchestra (1) Music in our Lives (1)	Studio in Art (1)
Electives	Dance I (0.5) Dance II (0.5)	Drama I (0.5) Drama II (0.5) Technical Theatre (0.5) IB Theatre Arts SL-I (1*) IB Theatre Arts HL-I (1*) IB Theatre Arts HL-II (1*)	Vocal Jazz (1) World Drumming (0.5) Piano Keyboarding/Guitar (1) Digital Music (0.5) Piano I (0.5) Piano II (0.5) Music Theory I (1) AP Music Theory (1)	Art History I (1) Art History II (1) Art 2 Dimensional (1) Art 2 Dimensional Advanced (1) Art 3 Dimensional (1) Art 3 Dimensional Advanced (1) Art Portfolio (1) AP Studio Art (1) OCC Principles of Drawing (1*) IB Visual Arts SL-I (1*) IB Visual Arts HL-I (1*) IB Visual Arts HL-II (1*)

VPA 300 MUSIC IN OUR LIVES (1 Credit) *This course is approved for NYS graduation arts credit*
Students past, present and future experiences with and through music in their everyday lives are the focus of this course. Students will engage in listening, performing composing activities throughout. Offered at all High Schools

VPA 301 MUSIC THEORY I (1 Credit) *Pre-requisite: 1 credit in a performing ensemble course or Instructor Approval (see Fine Arts Instructor Approval Form)*

This course is designed to provide students with an understanding of the fundamental of music and includes the following topics: composition, arrangement, analysis, aural development and sight reading. Offered at all High Schools

VPA 321 AP MUSIC THEORY (1 Credit weighted) *Pre-requisite: Music Theory I*

The AP Music Theory course corresponds to one or two semesters of a typical introductory college music theory course that covers topics such as musicianship, theory, musical materials, and procedures. Musicianship skills, including dictation and other listening skills, sight singing, and harmony, are considered an important part of the course. Through the course, students develop the ability to recognize, understand, and describe basic materials and processes of tonal music that are heard or presented in a score. Development of aural skills is a primary objective. Performance is also part of the curriculum through the practice of sight singing. Students understand basic concepts and terminology by listening to and performing a wide variety of music. Notational skills, speed, and fluency with basic materials are also emphasized. **Can only be offered if the school has appropriately certified personnel.**

VPA 330 BAND (1 Credit)

This performing ensemble is open to all instrumentalists. The music is varied from classics to marches, show tunes and contemporary music. This course may incorporate concert and/or marching band. Students may enroll in this class multiple years in high school and continue through the program until graduation.

Offered at all High Schools

VPA 329 BEGINNING BAND (1 Credit)

This performing ensemble is for high school students who wish to learn a traditional concert band instrument. The goal of the course is to provide basic playing fundamentals, to prepare students to play in the concert band the following school year, and continue with the full band program until graduation, if the student chooses.

Offered at all High Schools

VPA 335 ORCHESTRA (1 Credit) *This course is approved for NYS graduation arts credit*****

This performing ensemble is open to all string players. Music is varied from classics to contemporary music. Students may enroll in this class multiple years in high school and continue through the program until graduation, if the student chooses. Offered at all High Schools

VPA 340 PIANO I (1/2 Credit)

Piano I class offers an introduction to the basics of piano playing, including a balance of beginning keyboard skills, beginning music theory, beginning ear training and sight reading through the use of beginning level repertoire. Offered at all High Schools

VPA 340 B PIANO II (1/2 Credit)

Piano II class offers more advanced work in piano playing, including intermediate keyboard skills, intermediate music theory, intermediate ear training and sight reading through the use of intermediate level repertoire Offered at all High Schools

VPA 341 WORLD DRUMMING (1/2 Credit)

This performing ensemble requires students to drum, sing and dance. This multicultural ensemble will feature the percussion-centered musical traditions of Cuba, Puerto Rico, Brazil and Western Africa., such as salsa, bomba, son, rumba, samba and African songs. Offered at all High Schools

VPA 342 PIANO KEYBOARDING/GUITAR (1 Credit)

Learn basics of piano and guitar including piano/keyboard skills and techniques, guitar skills and techniques, music theory, ear training, sight reading and repertoire appropriate to the student's level and musical ability.

Offered at all High Schools

VPA 350 CHORUS (1 Credit) *This course is approved for NYS graduation arts credit*****

This performing ensemble is open to all singers. Most music is performed in three or four part harmony. This class offers a wide variety of styles, which include Popular, Rhythm and Blues, Country and Western, Gospel, and Classical. Offered at all High Schools

VPA 351 CONCERT CHOIR (1 Credit) *This course is approved for NYS graduation arts credit*****

This performing ensemble provides students the opportunity to sing all styles of music in four part harmony. Students will also work on music theory and sight signing skills. Offered at all High Schools

VPA 354 VOCAL JAZZ (1/2 Credit) *Entrance into this vocal performing ensemble is by audition only.*
Vocal Jazz is a performing ensemble that performs challenging literature and jazz pieces from all of the various musical eras written for small vocal ensembles. The class concentrates on vocal improvisation (scatting), performing with a combo, and learning the basics essential to the genre. Concentration will also be on solo singing, singing in a small group, and emphasis on part balance. Offered at all High Schools

VPA 390 DIGITAL AUDIO MUSIC (1/2 Credit)
Digital music uses modern technology in the creation and manipulation of music. Students will use a variety of programs and websites to engage in musical practices and explore the technological aspects of music. Offered at all High Schools

ART 100 ART HISTORY (1 Credit)
No pre-requisites. Offered for ALL college bound students – NOT FOR ART MAJORS ONLY
Comparative consideration of past and present forms and techniques in painting, sculpture and graphic design, with emphasis on developing an understanding and appreciation of the diversity of human expression in the Visual Arts. Students explore Cave Art to Medieval time periods. Offered at all High Schools

ART 102 ART HISTORY II (1 Credit)
Offered for ALL college bound students – NOT FOR ART MAJORS ONLY
Comparative consideration of past and present forms and techniques in painting, sculpture, and graphic design, with emphasis on developing an understanding and appreciation of the diversity of human expression in the Visual Arts. Students explore Renaissance to Contemporary Art periods. Offered at all High Schools

VPA 403 STUDIO IN ART (1 Credit) *This course is approved for NYS graduation arts credit*
No pre-requisites – first level of art study. The prerequisite course for all Art classes.
An introductory experience in 2 Dimensional AND 3 Dimensional Art fundamentals, whereby exploration and skill development of various mediums, concepts, and philosophies are explored. This will include drawing, painting and other creative 2D media, ceramics, sculpture and other 3D media Offered at all High Schools

VPA 406 2-DIMENSIONAL ART (1 Credit)
Prerequisite: Studio in Art
Can be used as the second unit for an Art sequence. An intensive approach in developing individual skills in varied activities in drawing, painting, printmaking and other creative 2D media. Offered at all High Schools

VPA 409 2-DIMENSIONAL ART ADVANCED (1 Credit)
Prerequisite: Studio in Art and 2D Art– Can be used for the advanced unit for Art sequence.
Students interested in continuing their pursuit for advanced study in drawing, painting, printmaking and other creative 2D media. Beginning portfolio development and college preparation for Art majors. Analysis of the components of the Elements of Art. Subject matters vary. Offered at all High Schools

VPA 407 3-DIMENSIONAL ART (1 Credit)
Prerequisite: Studio in Art
Can be used as the second unit for an Art sequence. An intensive approach in developing individual skills in varied activities in sculpture: ceramic materials (clay and glazes), wood, stone, plaster, wire, weaving, and other creative 3D media. Offered at all High Schools Offered at all High Schools

VPA 408 3-DIMENSIONAL ART ADVANCED (1 Credit)
Prerequisite: Studio in Art and Art 2D or Art 3D– Can be used for the advanced unit for Art sequence.
Students interested in continuing their pursuit for advanced study in ceramics, sculpture, or any creative 3D media. Beginning portfolio development and college preparation for Art majors. Analysis of the components of the Elements of Art. Subject matters vary. Offered at all High Schools

VPA 423 AP STUDIO ART (1 Credit) Prerequisite: Studio in Art and Art 2D or Art 3D

The AP Program offers three studio art courses and portfolios: Two-Dimensional Design, Three-Dimensional Design, and Drawing. The AP Studio Art portfolios are designed for students who are seriously interested in the practical experience of art. Students submit portfolios for evaluation at the end of the school year. The AP Studio Art Program consists of three portfolios — 2-D Design, 3-D Design and Drawing — corresponding to the most common college foundation courses. Students may choose to submit any or all of the Drawing, Two-Dimensional Design, or Three-Dimensional design portfolios. AP Studio Art students create a portfolio of work to demonstrate the artistic skills and ideas they have developed, refined, and applied over the course of the year to produce visual compositions. Offered at all High Schools

VPA 440 ART PORTFOLIO (1 Credit)

The Art Portfolio is offered at Henninger HS only. Prerequisite: Studio in Art and Art 2D or Art 3D.

Development and preparation for a signature body of art work for college. A senior project includes an art career experience. Offered at all High Schools

VPA 706/OCC ART 109 ONONDAGA COMMUNITY COLLEGE (OCC) PRINCIPLES OF DRAWING

(1 Credit Weighted) Offered at Henninger HS only. Prerequisite: Studio in Art and Art 2D or Art 3D

Introductory course for non-art majors. An exploratory course that analyzes the components of drawing (line, shape, form, value, transition, texture, tension, balance, composition, etc.) Subject matter varies and may include still-life, landscape, architectural and figurative elements

VPA710 IB VISUAL ARTS SL-I (1 Credit weighted)

The IB Diploma Programme visual arts course encourages students to challenge their own creative and cultural expectations and boundaries. It is a thought-provoking course in which students develop analytical skills in problem-solving and divergent thinking, while working towards technical proficiency and confidence as art-makers. In addition to exploring and comparing visual arts from different perspectives and in different contexts, students are expected to engage in, experiment with and critically reflect upon a wide range of contemporary practices and media. Offered at Corcoran

VPA 712 IB THEATER ARTS SL (1 Credit weighted)

The IB Theatre Arts program is designed to give students the opportunity of develop an appreciation of theatre by creating it and studying it. In addition, students are provided an opportunity to explore the rich historical, societal, and cultural significance of theatre throughout the world. One year of Theatre Arts performance or production in grade 9 or 10 is recommended Offered at Corcoran

VPA720 IB VISUAL ART HL-I (1 Credit weighted) Offered at Corcoran

VPA721 IB VISUAL ART HL-II (1 Credit weighted) Offered at Corcoran

Prerequisite: Studio in Art

The IB Diploma Programme visual arts course encourages students to challenge their own creative and cultural expectations and boundaries. It is a thought-provoking course in which students develop analytical skills in problem-solving and divergent thinking, while working towards technical proficiency and confidence as art-makers. In addition to exploring and comparing visual arts from different perspectives and in different contexts, students are expected to engage in, experiment with and critically reflect upon a wide range of contemporary practices and media.

VPA722 IB DP THEATER ARTS HL-I (1 Credit weighted) Offered at Corcoran

VPA724 IB DP THEATER ARTS HL-II (1 Credit weighted) Offered at Corcoran

This IB, college level course offers primary training in speech, acting movement, and production skills. Students will become more aware of classic playwrights from various time periods and analyze dramatic theater as literature. Students will learn to recognize subtler shadings of the elements of literature in the context of theater. They will engage in the development, the analysis, and the production of many different works of theater and work collaboratively to create and produce great performance art.

VPA 940 TECHNICAL THEATER (1/2 Credit)

Technical Theater is both a design based and hands on elective class focusing on the "behind the scenes" work in theater. Students will have the opportunity to analyze various dramatic works and create the set design, lighting, sounds and music to go along with them. They will have the opportunities to work back stage during performances with Drama 2 students. Students taking Tech Theater should have already completed Drama 1. Offered at all High Schools

VPA 941 DRAMA I (1/2 Credit elective)

Drama I offers primary training in speech, acting movement and production skills, as well as focused practice and development in the academic language art skills: writing, reading, speaking, and listening. Students become more aware of drama as literature. Students learn to recognize subtler shadings of the elements of literature, in particular, plot, theme, symbol, character, and exposition. Drama is especially helpful to today's students because it demands a development of self-control, and the ability to accept and give constructive criticism. (All students are encouraged to participate in major and minor stage productions.) Drama I students will be required to complete all drama projects, a research paper, two play reports, one review and the final exam. Offered at all High Schools

VPA 942 DRAMA II (1/2 Credit)

In the Drama II elective course, students will be expected to continue work, which they began in Drama I. Drama II students will complete additional drama projects; three play reports, two reviews, their project exam, and a research paper. Offered at all High Schools

WORLD LANGUAGE COURSES

ASL 101 AMERICAN SIGN LANGUAGE 1 (1 Credit)

This course is the first in a series of courses designed to develop the skills and knowledge needed to communicate in American Sign Language. This course introduces basic sign language vocabulary and fingerspelling. In addition, students will be introduced to aspects of American Deaf culture and history. Other relevant topics will be addressed. *NCAA Approved* Offered at Corcoran, Henninger

ASL 201 AMERICAN SIGN LANGUAGE 2 (1 Credit) This course is the second in a series of courses designed to develop the skills and knowledge needed to communicate in American Sign Language. This course continues to develop American Sign Language vocabulary and sentence construction as well as fingerspelling. In addition, students will continue to refine their knowledge of the Deaf community and Deaf education. Other relevant topics will be addressed. *NCAA Approved* Offered at Corcoran, Henninger

ASL 301 AMERICAN SIGN LANGUAGE 3 (1 Credit) This course integrates and refines expressive and receptive skills in American Sign Language (ASL), including recognition of sociolinguistic variation. A practice oriented approach to language acquisition with demonstration of more sophisticated grammatical features of American Sign Language (ASL). Increases fluency and accuracy in fingerspelling and numbers. Offered at PSLA only

ASL 401 AMERICAN SIGN LANGUAGE 4 (1 Credit)

Prerequisite: Level 3

This course further develops students' expressive and receptive communication skills in ASL with an emphasis on the grammatical structure of ASL, particularly its morphology, syntax, and semantics. Appropriate culture behaviors and conversational regulators in ASL will be an important part of this course. Deaf cultural topics are included to provide context for vocabulary units that will expand cultural perspectives and understandings. (This level completes Checkpoint C of the New York State Syllabus). Offered at PSLA only

ARA 101 ARABIC 1 (1 Credit) *NCAA Approved Offered at PSLA*

FRE 101 FRENCH 1 (1 Credit) *NCAA Approved Offered only at Henninger and Nottingham*

SPA 101 SPANISH 1 (1 Credit) *NCAA Approved Offered at all High Schools*

This course is designed for students who have had no language experience in 8th grade. The first year of second language study, this course begins the developmental process of listening, speaking, and writing a second language. The primary focus of this course is communication with listening and speaking as the areas of emphasis. Offered at Corcoran

ARA 102 ARABIC 2 (1 Credit) *NCAA Approved Offered at PSLA*

FRE 102 FRENCH 2 (1 Credit) *NCAA Approved Henninger and Nottingham*

SPA 102 SPANISH 2 (1 Credit) *NCAA Approved Offered at all High Schools*

Within the framework of the New York State Syllabus, this course provides the first half of checkpoint B. Language study continues to build on previous learning. Listening, speaking, reading and writing become more focused. Cultural studies continue to increase the student's awareness of the target culture throughout the world. Offered at Corcoran

ARA 103 ARABIC 3 (1 Credit) NCAA Approved Offered at PSLA

FRE 103 FRENCH 3 (1 Credit) NCAA Approved Henninger and Nottingham

SPA 103 SPANISH 3 (1 Credit) NCAA Approved Offered at all High Schools

Within the framework of the New York of the New York State Syllabus, this course concludes Checkpoint B. The program encourages students to use the target language in a meaningful way increasing their ability to read, write, speak and understand the target language in everyday situations. Students enrolled in this course will take the New York State Comprehensive Regents Examination. Offered at Corcoran

ARA 104 ARABIC 4 (1 Credit) Offered at PSLA

FRE 104 FRENCH 4 (1 Credit) NCAA Approved Henninger and Nottingham

SPA 104 SPANISH 4 (1 Credit) NCAA Approved Offered at all High Schools

Prerequisite: Level III

The student's ability to read, write, speak and understand the target language on everyday topics increase with readings from short selections in the target language. Students review grammar and syntax with an emphasis on language functions and structure. (This level completes Checkpoint C of the New York State Syllabus). Offered at Corcoran

FRE 105 FRENCH 5 (1 Credit) NCAA Approved Henninger and Nottingham

SPA 105 SPANISH 5 (1 Credit) NCAA Approved Offered at all High Schools

Prerequisite: Level IV

Students continue to read, write, listen and converse in depth on contemporary issues. The teacher provides material from different sources to develop these skills. Some of the materials used include: newspaper and magazine articles, plays, novels, short stories and the visual media. There is intensive work in conversation and composition.

SPA 711 IB DP SPANISH SL-I (1 Credit Weighted)

Prerequisite: Level 3

This course serves as the first year of IB Language B (HL/SL). Prerequisite: Successful completion of Level III
The focus of the two-year International Baccalaureate program is to achieve full literacy in Spanish with equal attention being placed on the areas of reading, writing, listening and speaking. Students will be exposed to various types of being placed on the areas of authentic texts, with which they must show their understanding through an assortment of activities (i.e. written and oral summaries, reaction essays, description, letters to and interviews with the author.) The students' proficiency in writing and speaking will be developed in such a way that students move away from prepared dialogues to increase spontaneous conversations on various topics. In addition to the development of speaking and listening skills through full immersion in the language during class time, the students will have the opportunity to further increase their proficiency through participation small group and full discussions as well as through participation in a language lab. Successful completion of the second year of the IB program the student will take the Standard Level International Baccalaureate Exam. Offered at Corcoran

SPA 712 IB DP SPANISH SL-II (1 Credit Weighted)

Prerequisite: Successful completion of Level III

The focus of the two-year International Baccalaureate program is to achieve full literacy in Spanish with equal attention being placed on the areas of reading, writing, listening and speaking. Students will be exposed to various types of being placed on the areas of authentic texts, with which they must show their understanding through an assortment of activities (i.e. written and oral summaries, reaction essays, description, letters to and interviews with the author.) The students' proficiency in writing and speaking will be developed in such a way that students move away from prepared dialogues to increase spontaneous conversations on various topics. In addition to the development of speaking and listening skills through full immersion in the language during class time, the students will have the opportunity to further increase their proficiency through participation small group and full discussions as well as through participation in a language lab. Successful completion of the second year of the IB program the student will take the Standard Level International Baccalaureate Exam. Offered at Corcoran

SPA 755 SYRACUSE UNIVERSITY PROJECT ADVANCE (SUPA) SPANISH 5 (1 Credit weighted/4 Credits SPA 201)

Using film, TV/radio, and literary texts, this proficiency-based course reviews understanding of the formal structures of language, refines previously acquired linguistic skills, and builds awareness of Spanish culture. Students will use sources in a variety of media to develop oral, listening, writing, and reading skills. By the end of the course, students can be expected to communicate effectively in the language in order to give and get information; survive both predictable and complicated situations; narrate and describe in present, past, and future time; support opinions; and hypothesize. Classes are conducted in Spanish. *NCAA Approved* Offered at Nottingham

FRE 795 SYRACUSE UNIVERSITY PROJECT ADVANCE (SUPA) FRENCH 5 (1 Credit weighted/4 Credits FRE 201)

This course allows students with skills at the intermediate level to continue their learning of the language and to prepare them for continuing into advanced university courses. By the end of the course, students should be able to sustain understanding of main ideas and details over long stretches of continued discourse, whether written or oral. They should also be able to read a variety of texts with increased comprehension and to write well enough to meet practical needs. Course work will include the use of film and video to develop listening and note-taking skills; role-playing, interviews, and extended narrative accounts to develop speaking skills; and the composition of letters, journals, summaries and reports to develop writing skills. *NCAA Approved* Offered at Nottingham

CAREER AND TECHNICAL EDUCATION



SCSD CTE Pathways

Course Descriptions

Pathway	Course	Course Description
Automotive Technology	AUT 100 (1 credit)	This course is the foundation for Automotive Technology pathway. Students will explore the career options available in the Automotive Technology field as well as the requirements for work as a professional service technician and develop personal short and long-term goals for professional growth. The course emphasizes workplace safety and includes the first steps toward OSHA certification. Classroom and shop activities simulate automotive service industry operations through the use of training aids and shop vehicles. Completion of the course will give students the basic skills for maintenance and repair of an automobile and prepare students for AUT 200: Automotive Technology 200. Offered at PSLA
	AUT 200 (1 credit)	This course is the second in the four-year Automotive Technology pathway. Students will continue to explore the career options available in the Automotive Technology field as well as the requirements for work as a professional service technician and develop personal short and long-term goals for professional growth. The course emphasizes safety in the operation and repair of the automotive steering, suspension, and brake systems. Classroom and shop activities simulate automotive service industry operations through the use of training aids and shop vehicles. Completion of the course will give students the basic skills for the maintenance, and repair of automotive steering, suspension and brake systems and will prepare students for AUT 300: Automotive Technology 300. Offered at PSLA
	AUT 300 (2 credit)	This course is the third in of the four-year Automotive Technology pathway. Students will explore automotive electrical theory, diagnosis, and repair. Students will also complete the OSHA 10-hour course training leading to OSHA general certification. Classroom and shop activities simulate automotive service industry operations through the use of training aids and shop vehicles. The course also emphasizes job readiness through student participation in job shadowing opportunities. Students will be assessed through the NOCTI Written and Performance Assessments and will have an opportunity to take the tests for ASE certification in Automotive Electrical. Completion of the course will give students the basic knowledge and skills for the operation, maintenance, and repair of automotive electrical, and engine performance systems and prepare students for AUT 400: Automotive Technology 400. Offered at PSLA
	AUT 400 (2 credit)	This course is the last in the four-year Automotive Technology pathway. Students will explore Automotive Engine Performance theory, diagnosis, and repair and participate in job internships and career preparation. Classroom and shop activities simulate automotive service industry operations through the use of training aids and shop vehicles. Students will be assessed using the NOCTI Written and Performance Assessments and will have the opportunity to test for NYS Inspection licensure and ASE certification in Automotive Engine Performance. Completion of the course will

		prepare students for continuing education and careers in the field of Automotive Technology. Offered at PSLA
Barbering	BRB 100 (1 credit)	Barbering 100 will introduce students to basic barbering skills. Students will also work toward the skills and techniques that are the foundation for Barbering 200 and 300. Topics include barbering occupations, safety, professional image, and communication as well as hair grooming, cutting, and trimming. Various hands-on activities as well as textbook-based work, lectures and group discussions will reinforce students' learning. Throughout the course students will obtain hours which can be used towards New York State licensing requirements. Offered at PSLA
	BRB 200 (1 credit)	Barbering 200 will continue to build on students' basic barbering skills from Barbering 100. Students will also work toward the skills and techniques that are the foundation for Barbering 300. Topics include shaving and facial hair design, men's facial massage and treatments, properties and disorders of the skin, hair and scalp, treatment of the hair, microbiology, anatomy and physiology and the business of barbering. Various hands-on activities as well as textbook-based work, lectures and group discussions will reinforce students' learning. Throughout the course students will obtain hours which can be used towards New York State licensing requirements. Offered at PSLA
	BRB 300 (2 credit)	Barbering 300 will continue to build on students' barbering skills from Barbering 100 and 200. Students will work to build the knowledge and skills which will prepare them for their New York State Licensing Examination and prepare them for industry employment. Topics include face shaving and facial hair design, men's facial massage and treatments, properties and disorders of the skin, hair and scalp, treatment of the hair, microbiology, anatomy, and physiology. Students will begin to explore the business of barbering, and barbershop management. Various hands-on activities as well as textbook-based work, lectures and group discussions will reinforce students' learning. Throughout the course students will obtain hours which can be used towards New York State licensing requirements. Offered at PSLA
	BRB 400 (2 credit)	Barbering 400 will continue to build on students' barbering skills from Barbering 100, 200 and 300. Students will work to build the knowledge and skills which will prepare them for their New York State Licensing Examination and prepare them for industry employment. Topics include face shaving and massages, the business of barbering, barbershop management, and preparation for the New York State Licensing Examination. Various hands-on activities as well as textbook-based work, lectures and group discussions will reinforce students' learning. Throughout the course students will obtain hours which can be used towards New York State licensing requirements. Offered at PSLA
Business Technology	BUS 100 (1 credit)	In Business Technology 100, students will investigate the career opportunities available in the field and be introduced to the fundamentals of a wide variety of business concepts and practices, including computer applications, effective communication skills, financial management, and entrepreneurship. Students will also have the opportunity to meet with local business people, visit college programs, and visit successful local businesses in action. Offered at Corcoran, Nottingham, PSLA
	BUS 200 (1 credit)	In Business Technology 200, students will further their investigation of the career opportunities available in the field and continue to develop their understanding of the fundamentals of a wide variety of business concepts and practices, including computer applications, effective communication skills, financial management, marketing, accounting, business management, economics, and entrepreneurship. Students will also have the opportunity to meet with local business people, visit college programs, and visit successful local businesses in action. Offered at Corcoran, Nottingham, PSLA
	BUS 300 (2 credit)	In Business Technology 300, students will experience in-depth learning experiences in Personal Finance and Entrepreneurship, with an emphasis on research and presentation. Students will explore topics in all areas of personal finances including

		budgeting, banking, making informed financial decisions about automobiles and housing, and important details of credit, loans, and planning for the future. Students will learn about what it takes to be an entrepreneur and the requirements for turning an idea into a successful business. Throughout the year, students will meet with financial professionals and entrepreneurs from the community to apply their learning and further develop their understanding. Students will have the opportunity to earn up to six college credits upon successful completion of the course. Offered at Corcoran, Nottingham , PSLA
	BUS 400 (2 credit)	In Business Technology 400, students will have the opportunity for an in-depth exploration of business topics with the goal of creating a Capstone Project that draws together the knowledge and skills they have developed through the Business Technology Pathway and a focus on developing career and college ready resumes and applications. Topics include real estate licensure, logistics, insurance, accounting, marketing, business management and business ownership. Students will have the opportunity to participate in internships with local businesses and entrepreneurs in the community Offered at Corcoran, Nottingham, PSLA
Clinical Laboratory Technician (P-TECH)	CLT 100 (1 credit)	This course gives students an introduction to the profession of clinical lab technology, its scope of practice, and career opportunities available for the clinical lab technician. In addition, students will develop an orientation to the healthcare environment, effective communication skills, and a foundation in medical ethics, biomedical and legal issues, including HIPAA, OSHA, and CDC regulations. Students will have the opportunity for hands on work with laboratory equipment and diagnostic testing. Classroom and laboratory safety, professionalism, and career readiness skills are emphasized. Offered at PSLA
	CLT 200 (1 credit)	This course gives students an introduction to the basic skills and equipment used in the clinical laboratory. Students will be oriented to the elements of quality control and laboratory mathematics. The course gives students a review of clinical assays used in the clinical laboratory. Students are introduced to the techniques for safe collection and handling of specimens for laboratory analysis. Offered at PSLA
	CLT 300 (2 credit)	CLT 300 integrates the skills and knowledge learned in previous Clinical Lab Technology courses. This is a laboratory-based course that investigates the structure and function of the human body. Topics covered will include the basic organization of the body, biochemical composition, and major body systems along with the impact of diseases on certain systems. Students will engage in many topics to truly understand the structure and function of the human body. Working from the topics of basic anatomical terminology and the biochemical composition of the human body, to detailed investigation of each of the major systems of the body, students will learn through reading materials, study guides, unit worksheets, group work, projects, and labs. Students will also expand on their professional skills through field trips, internships, research, and professional certifications. Upon completion of this course, students will be well-prepared for CLT 400: Clinical Lab Technology 400. Offered at PSLA
	CLT 400 (2 credit)	This course gives students training and experience in the practice of phlebotomy including the use of blood collection equipment and the practice of standard safety precautions Students will learn the procedures of routine venipuncture and skin puncture, as well as the proper documentation, handling, and transportation of specimens. Students will investigate the ethical, legal, and regulatory issues surrounding venipuncture and will consider the preanalytical complications, hazards, and complications of blood drawing. Specialized procedures and types of collections will be addressed. Students will prepare for employment by writing resumes and cover letters and participating in practice interviews. Offered at PSLA
Computer Forensics	CFF 100 (1 credit)	This course will introduce students to the fundamentals of computers and computer systems. Through hands-on experience, students will learn the basics of computers,

		hardware, peripherals, and networking. This course will give students the foundational knowledge and skills for the Computer Forensics sequence. Offered at PSLA
	CFF 200 (1 credit)	This course provides an overview and exploration of software and technology foundations for computer forensics. The course emphasizes practical hands-on labs and exercises that students will use to gain an understanding of software technologies that are relevant to computer forensics. By writing lab reports that document their findings and results, students will implement knowledge and skills in authentic situations. Students who successfully complete the course will have the opportunity to obtain CompTIA A+ Certification. Offered at PSLA
	CFF 300 (2 credit)	This course will introduce students to the fundamentals of computer forensic investigations and will build on the knowledge and skills developed in CFF 100 and 200. Through hands-on experience, students will learn the process of a computer forensic investigation. By writing lab reports that document their findings and results, students will implement knowledge and skills in authentic situations. Students who successfully complete the course will have the opportunity to obtain CompTIA A+ Certification. Offered at PSLA
	CFF 400 (2 credit)	This course will develop students' abilities in computer forensic investigations and will build on the knowledge and skills developed in CFF 100, 200, and 300. Through hands-on experience, students will learn the process of a computer forensic investigation. By writing lab reports that document their findings and results, students will implement knowledge and skills in authentic situations. Students who successfully complete the course will have the opportunity to obtain CompTIA A+ Certification. Offered at PSLA
Computer Information Systems (P-TECH)	CIP 100 (1 credit)	This course will introduce students to the fundamentals of computers and computer systems. Through hands-on experience, students will learn the basics of computers, hardware, peripherals, and networking. This course will give students the foundational knowledge and skills for the Computer Information Systems sequence. Offered at PSLA
	CIP 200 (1 credit)	The course covers the concepts of computing principles and advanced data use. Topics include software and hardware management tools and techniques, file management, presentation software, database applications and concepts, and current issues in computing and information systems having an impact on today's society. The lessons will be presented using traditional classroom lectures and hands-on computer projects. Offered at PSLA
	CIP 300 (2 credit)	In this course, students will be introduced to Web development concepts and principles. Foundation topics include protocols, Linux commands, file management, remote access, and file transfer. Web accessibility will be discussed and incorporated. Students will also explore the architecture, structure, functions, components, and models of computer networks. It uses the OSI and TCP layered models to examine the protocols and services used in networking. Students will be introduced to structured IP addressing and Ethernet. Offered at PSLA
	CIP 400 (2 credit)	This is an introductory course on computer program design and development. Emphasis is on the identification and solution of business problems through systems of computer programs. Programs are described and designed through such tools as program flowcharts, structure charts, and pseudocode. Within this framework, programming languages are treated as tools which can be selected, as appropriate, to implement the designs. Students will also be introduced to the administration of servers operating in a client server environment, including the system software running client server networks, and the installation, configuration, and management of a network server. Students will be exposed to several different operating systems and several server applications, such as Web, ftp, database, and mail servers. Offered at PSLA
Construction Technology	CNT 100 (1 credit)	Level 100 Construction Trades provides basic technical knowledge and safety skills to begin preparing for a career in the field. Topics include safety, construction math and measurement, project estimating, hand and power tool identification and use,

		construction drawings, materials handling and processing and construction rigging. Communication and customer service are also covered. Offered at PSLA,
	CNT 200 (1 credit)	Construction Trades 200 builds on the knowledge and skills learned in Construction Trades 100. Students will learn the basic skills necessary to work in concrete, masonry, and carpentry. Tools and materials for the three skill areas will be learned and practiced in a project-based learning environment to gain hands on experience. Learning to form and pour concrete sidewalks, block and stone retaining walls, and building a small utility shed are examples of the practical work that will be accomplished in Construction Trades 200. Offered at PSLA, Nottingham
	CNT 300 (2 credit)	Construction 300 continues to expand knowledge and skills learned in the 100 and 200 levels. Students in this course will learn skills necessary to work safely in plumbing, electrical, building envelope, and green building. Tools and materials for the four skill areas will be learned in a project-based learning environment. Examples of project work include learning to plumb a bathroom, wiring a room with lights and receptacles, designing, and creating an energy efficient wall system, experimenting with alternative energy models, including energy conservation. Offered at PSLA, Nottingham
	CNT 400 (2 credit)	Construction 400 takes student knowledge and skills to greater depths by providing opportunities for additional project-based activities and work-based learning experiences. Students will practice work safety in all aspects of the construction trades while enhancing skills. Level 400 also integrates job readiness practices, including effective verbal and written communication, critical thinking and problem solving, resume, cover letter, job interview and follow up activities. Offered at PSLA, Nottingham
Cosmetology	COS 100 (1 credit)	This is the first class of a multi-year cosmetology program. Exploratory Cosmetology is a one credit, one period class that will introduce students to basic Cosmetology skills. Students will get a general overview of a variety of skills and pre-requisites which are the foundation of Cosmetology. Topics include Cosmetology occupations, life skills, safety and sanitation, professional image, and communication, as well as hair care, hairstyling, and nail care. Various hands-on activities as well as textbook-based work, lectures and group discussions will reinforce students' learning. Students will obtain hours which are used towards New York State licensing requirements. NOTE: Students MUST successfully complete COS 100: Exploratory Cosmetology in order to advance to COS 200: Introduction to Cosmetology.
	COS 200 (1 credit)	This is the second class of a multi-year cosmetology program. Introduction to Cosmetology is a one credit, one period class that will introduce students to basic Cosmetology skills. Students will get a general overview of a variety of skills and pre-requisites which are the foundation of Cosmetology 300 and 400. Topics include cosmetology occupations, life skills, safety and sanitation, professional image, and communication, as well as hair care, hairstyling, and nail care. Various hands-on activities as well as textbook-based work, lectures and group discussions will reinforce students' learning. Students will obtain hours which are used towards New York State licensing requirements. Offered at PSLA
	COS 300 (2 credit)	This is the third class of a multi-year cosmetology program. Cosmetology 300 is a two-credit, two period class that will expand on all of the skills taught in COS 100: Exploratory Cosmetology and COS 200: Introduction to Cosmetology, as well as explore many other facets of cosmetology. The Cosmetology 300 program will include science theory and advanced hands-on activities such as haircutting and styling, advanced nail techniques, and New York State Licensing Exam techniques. In addition, students will develop the time management and communication skills they will need to be successful in the field of Cosmetology. Students will engage in textbook-based work, lectures, group discussions and science lab work. Students will obtain hours that are used towards New York State licensing requirements. Offered at PSLA

	COS 400 (2 credit)	This is the last class of a multi-year cosmetology program resulting in 1000 hours of instruction. This course includes the New York State Cosmetology Curriculum as the core curriculum, which aligns with industry standards and Career Ready Practices. Much of Cosmetology 400 involves hands-on practical application of knowledge and skills. The class meets every day for 3 periods during which students will run the salon for other students, staff, and members of the community at least once a week. Upon completion of the cosmetology multi-year program, student assessments will include the Skills USA and/or NOCTI accredited exams, as well as a culminating student business plan project, which demonstrates commencement-level problem solving, technical skills and academic competency. Skill competencies will be documented through on-going authentic assessment using a senior portfolio. Students that pass both the written and practical NOCTI exam will receive a technical endorsement on their diploma. At the end of this course, students will qualify for a New York State Temporary Cosmetology License and become eligible to take the New York State Licensing Exam in Cosmetology. Offered at PSLA
Culinary Arts	CUL 100 (1 credit)	In this course students will learn about the fast-paced careers of the restaurant industry. Students will gain experience in both front- and back-of-the-house operations. Students begin by developing their knife skills and using appropriate cooking methods for different foods. Opportunities are provided for students to learn safe methods of food handling and storage through the ServSafe program. Through small scale food production, students develop both individual and team culinary skills. Offered at PSLA
	CUL 200 (1 credit)	In this class, students have the opportunity to explore the exciting and developing professions in the culinary industry using the National Restaurant Association's ProStart curriculum. Through the ProStart program, high school students can learn career-building skills and get a taste for success in an industry that is hungry for talent. In the first year of this two-year program, ProStart students will build a solid foundation for their future careers, and work toward the ProStart National Certificate of Achievement. Students will learn the essentials of food service safety, food preparation and management, and employability skills through hands-on application. Students will continue to develop their individual and team culinary skills through small scale food production in the kitchen. Offered at PSLA
	CUL 300 (2 credit)	In this class, students have the opportunity to develop and apply more advanced culinary skills to prepare for the ProStart National Certificate of Achievement and a career in the culinary industry using the National Restaurant Association's ProStart curriculum. Students will learn and apply more skills in food preparation and storage, nutrition, cost control, purchasing and marketing. The students will also develop an awareness of the environmental impact of the food service industry along with the latest trends in sustainable food practices. Students will continue to develop their individual and team culinary skills through small scale food production in the kitchen with an emphasis on food safety. Offered at PSLA
	CUL 400 (2 credit)	In this class, students have the opportunity to apply what they have learned throughout their course of study in internships and work-based learning. Through two internships rotations in local foodservice settings students will develop the practices and skills that will help them pursue their chosen career in the culinary industry. Students will also delve deeply into world cuisines and advanced baking techniques in the classroom and kitchen lab to further hone their skills in preparation for employment or post-secondary education. Students will develop a professional portfolio that will showcase their knowledge and skills to future employers and potential continuing education opportunities. Offered at PSLA
Cybersecurity	CSS 100 (1 credit)	This course will introduce students to the fundamentals of computers and computer systems. Through hands-on experience, students will learn the basics of computers, hardware, peripherals, and networking. This course will give students the foundational knowledge and skills for the Cyber Security sequence.

	CSS 200 (1 credit)	This course provides an overview and exploration of software and technology foundations for cyber security. The course emphasizes practical hands-on labs and exercises that will be used by students to gain an understanding of software technologies that are relevant to cyber security. By writing lab reports that document their findings and results, students will implement knowledge and skills in authentic situations. Students who successfully complete the course will have the opportunity to obtain CompTIA A+ Certification. Offered at PSLA
	CSS 300 (2 credit)	This course introduces the student to the foundational concepts and processes of cyber security in modern organizations. The course emphasizes practical hands-on labs and exercises that will be used by students to gain an understanding of software technologies that are relevant to cyber security. By writing lab reports that document their findings and results, students will implement knowledge and skills in authentic situations. Students who successfully complete the course will have the opportunity to obtain CompTIA A+ Certification. Offered at PSLA
	CSS 400 (2 credit)	This course presents the student with foundational concepts and processes to achieve better information security in a modern organization. The student will develop an appreciation for the threat and risk of information exposure, as well as risk management and mitigation techniques to limit losses. Students will explore the essential elements of an information security policy and the importance of incident response, reporting, and containment in the context of timely restoration of information. Students will also learn procedures for notification of appropriate authorities leading to potential prosecution. Modern information security technologies and their limitations will be explored as well as legal, ethical, and privacy issues. Offered at PSLA
Electrical Technology (P-TECH)	PTP 100 (1 credit)	This course will provide an overview of various aspects of the engineering profession. Students will gain skills in career exploration, learn more about pathways to selected engineering careers and begin to develop foundation skills in professional and ethical responsibilities. Students will learn about practical engineering tools, engineering design and the basics of CAD and CAM, air conditioning and refrigeration. Through various speakers and field trip experiences, they will learn about education and licensing requirements, roles and responsibilities, regulatory agencies, and work settings. Students will also begin to learn and apply standard engineering nomenclature within the context of the subjects, and based on instruction and research, they will begin to understand the need for industry regulations and protocols. In addition, they will practice team building, critical thinking skills, oral and written communications. Offered at PSLA
	PTP 200 (1 credit)	This course will continue the engineering concepts, practices and projects in the level 100 course and cover various aspects of the engineering profession. Students gain additional knowledge in career exploration, including pathways to selected engineering careers. They will work to further develop skills in professional and ethical responsibilities and behaviors. The course introduces students to technical drawing, the use of practical engineering tools, engineering design, CAD, data collection and analysis methods. Fundamentals of electricity, electrical circuits and input/output devices, as well as drive systems and hydraulics are also covered. Students continue to learn about education and licensing requirements, roles and responsibilities, regulatory agencies and work settings through various speakers and field trip experiences. Students learn and apply standard engineering nomenclature within the context of the subjects and utilize instruction and research for understanding the need for industry regulations and protocols. Research, teamwork, critical thinking, and oral/written communication skills will also be expanded. Offered at PSLA
	PTE 300 (2 credit)	Electrical Technology is an introduction to basic concepts underlying the computer and its applications in technology and science fields. The focus is on studying the computer for acquiring and presenting information, using spreadsheets to solve problems, collecting, and storing data and word processing documents. Topics

		include: Hardware and software computer concepts, introduction to internet to acquire and share information, introduction to spread sheet applications for solving problems and charting, and using text editors in word processing documents. Introduction to technical presentations, use of application programs for organizing data, and drawing charts and schematics are also covered. Student will develop professional skills along with the application of electrical engineering theory into practice. Offered at PSLA
	PTE 400 (2 credit)	The Professional Technology and Cooperative Work Experience Program component expands and enhances skills taught throughout the P-TECH program. Students will be assigned mentors and work with specific manufacturing industry professionals who will facilitate growth opportunities according to the needs of mentoring enterprise. Topics include employability, professionalism, teamwork, time management, design theory problem and solving/analysis. Students will develop 21st Century skills with the application of engineering theory in authentic industry environments within the Syracuse Manufacturing field. Students will perform these internship experiences 5 periods per week. Offered at PSLA
Electrical Trades	ELT 100 (1 credit)	Electrical Trades 100 is an introductory course designed to give students a general overview of the Electrical Industry. This class is a pre-requisite for Electrical Trades 200, 300 and 400. The course includes an introduction to career opportunities, basic workplace safety, and an introduction to the tools and materials in the electrical trades. Offered at PSLA
	ELT 200 (1 credit)	Electrical Trades 200 builds on skills learned in Electrical Trades 100 and gives students a more in-depth understanding of the knowledge and skills required to be successful in the electrical industry. This class is a pre-requisite for Electrical Trades 300. Students will build their knowledge and skills in wiring methods and materials, national and local electrical codes, and the proper tools for residential wiring. The course also includes job seeking and communication skills, and an introduction to important professional organizations. Throughout the course there is an emphasis on workplace safety. Offered at PSLA
	ELT 300 (2 credit)	At this level, students will go into depth with the fundamentals of basic wiring established in ELT 200, including knowledge of the NEC for proper wiring, devising, materials, and installation. Students will understand the what, how, and why of residential wiring as well as the proper procedure for making a residential wiring project efficient. Students will continue to build their understanding of Ohm's Law, Watt's Law, and the NEC Code Book. They will know and apply the terminology and symbols on electrical prints as well as the proper tools and equipment needed for different installation tasks. Students who successfully complete ELT 300 will have the skills comparable to those required for an entry-level job in residential wiring.
	ELT 400 (2 credit)	This course is designed to educate students in the commercial aspect of the electrical industry. Students will expand on their knowledge of electrical theory and application learned in Electrical Trades 100, 200 and 300. Students will interpret blueprints and specifications appropriate to a commercial setting, and identify the different materials and tools needed for the installation of commercial wiring. As a requirement for the course, students will complete internships with local electrical contractors, complete a professional portfolio and take a national assessment to earn CTE endorsement for graduation. Students who successfully complete ELT 400 are eligible to take the entrance exam for the IBEW (International Brotherhood of Electrical Workers) training program. Those students who pass the entrance exam will be interviewed for admittance to the program and will be on their way to a successful career in the electrical industry. Offered at PSLA
Emergency Medical Technician	EMT 100 (1 credit)	This course introduces students to terminology, patient assessments, patient and EMT safety and basic knowledge of human anatomy and physiology. Additional content covers the role of emergency response personnel and an understanding and application of communication codes and dispatch practices. Students receive instruction in both large and small group settings. The course combines classroom and hands-on application of the skills required of first responders.

	EMT 200 (1 credit)	The course allows students to go more deeply into EMT skills through further study of medical terminology, injuries, and treatments of the musculoskeletal system, including soft tissue injuries, patient lifting and movement techniques, workplace safety practices and legal/ethical issues affecting medical personnel. The course combines classroom and hands-on application of the skills required of first responders. Offered at PSLA
	EMT 300 (2 credit)	This course advances student levels of medical terminology, emergency response skills and provides a greater understanding of HIPAA, patient rights and responsibilities and scope of practice within the Good Samaritan Act. Other topics include children and childbirth, and CPR Certification. Offered at PSLA
	EMT 400 (2 credit)	This course continues to advance student knowledge of medical terminology, emergency response skills and provides a greater understanding of HIPAA, patient rights and responsibilities and scope of practice within the Good Samaritan Act. Students will perform internship experiences along with gaining college credit in Anatomy & Physiology. Students who successfully complete the course of study have the opportunity to obtain EMT Certification Offered at PSLA
Fire Rescue	FRP 100 (1 credit)	In this introductory course, students will become aware of the broad field of fire suppression. Students begin to develop the fire skills necessary for handling the challenges and demands of fire protection. Topics covered will include the science of fire, fire protection and prevention, fire safety, the basic organization and functions of a fire department and other agencies involved in fire protection. Other topics covered are statistics of fire loss and a review of current and future fire protection problems. Offered at PSLA
	FRP 200 (1 credit)	In this course, students will continue to develop the fire skills necessary for handling the challenges and demands of fire protection. Topics covered will include the science of fire, fire protection and prevention, fire safety, the organization and functions of a fire department and other agencies involved in fire protection. Other topics covered are statistics of fire loss and a review of current and future fire protection problems. The course combines classroom and hands-on application of firefighter skills. Offered at PSLA
	FRP 300 (2 credit)	During this course, students will become aware of the immense amount of science incorporated in the Fire-Rescue Field. Students continue to develop critical skills in fire protection and learn about the chemistry of fire, fire suppression agents, chemical properties that create HazMat situations, indicators of chemical warfare agents and synthetic drug labs. The course combines classroom and hands-on application of firefighter skills. Offered at PSLA
	FRP 400 (2 credit)	Students in this course will continue to work on proficiency in firefighter skills and become aware of the high degree of planning and writing involved in planning for disasters. Students will complete reports and analyze laws related to patient and firefighter rights. A review of current incident plans in major cities and an analysis of plans in place for Onondaga County is completed and students will develop incident plans for implementation at PSLA. CPR and First Aid Certification is part of FRP400 and students will also earn their Emergency Medical Responder certificate.
Forensic Science	CSI 100 (1 credit)	Forensic Science 100 is an introduction to the Forensic Science pathway. This course will expose students to a basic understanding of Forensic and provide an overview of the roles of Forensic Scientists. Students will engage in basic laboratory and analytical tasks. This course is intended to provide an introduction to the science behind crime detection. Topics included are forensic skills, the legal system, crime scene investigation, the history of forensic science, hair analysis, fingerprints, forensic dentistry, science fair, impression evidence, blood typing, and crime mapping. Offered at PSLA
	CSI 200 (1 credit)	This course provides an overview of the criminal justice system and introduces specialized forensic topics including safety and career readiness, the U.S. justice system, the history and role of forensic science in the legal system, crime scene investigation and crime scene photography, fiber evidence, serology, physical

		evidence and remains, mortality, science fair, toxicology, psychology, and ecology. Students will also do a focused study of Anatomy and Physiology during the first semester with students from the EMT program. As part of this course, students will enroll in CRJ 101: Criminal Justice Systems at Onondaga Community College that includes study of police, courts, corrections, individual rights vs. public order, due process, and discretionary and ethical issues. Offered at PSLA
	CSI 300 (2 credit)	This course provides a broad overview of the Forensic Sciences and an in-depth exploration of analytical tools used in the field. Students will begin to explore topics on crime scene investigation, science, pseudoscience and the law, microscopy, and methods in examining biological evidence, DNA, serology, anatomical evidence, forensic medicine, ecology, medicine and anthropology, chemical evidence, spectroscopy, toxicology, explosives and arson investigation, soil, glass and paint analysis, firearms, ballistics and impression evidence, forensic document analysis, forensic engineering, and behavioral science. Offered at PSLA
	CSI 400 (2 credit)	This course will provide students will a more in-depth exploration of the Forensic Sciences and analytical tools used in the field. As part of this course, students will enroll in Syracuse University Forensic Chemistry 113. Topics included are historic development and legal system, crime scene investigation, science, pseudoscience and the law, microscopy and methods in examining biological evidence, DNA, serology, anatomical evidence, forensic medicine, science fair, ecology, medicine and anthropology, chemical evidence, spectroscopy, toxicology, explosives and arson investigation, soil, glass and paint analysis, firearms, ballistics and impression evidence, forensic document analysis, forensic engineering, and behavioral science. Offered at PSLA
Geospatial Technology	GIS 100 (1 credit)	In this course students will define Geographic Information Systems (GIS), identify career opportunities in GIS, and learn key tools used by GIS specialists. Students will participate in hands-on activities and lessons that use ESRI software to create and analyze maps and display mapping data. This course will contribute to the preparation of students for a wide range of careers using GIS, GPS, spatial analyses, remote sensing, and digital mapping. Offered at PSLA
	GIS 200 (1 credit)	This course builds on students' understanding of the use of GIS technology, Global Positioning Systems, cartography, and geospatial data visualization. It also increases students' ability to employ GIS tools and conduct more complex analyses using spatial statistics and data interpretation skills. The goals of this course are to help student think spatially, analytically, and critically; and improve problem solving skills. Offered at PSLA
	GIS 300 (2 credit)	Students will review Geospatial software skills and knowledge and continue to build on their understanding of the use of GIS technology, Global Positioning Systems, cartography, and geospatial data visualization. Students will employ GIS tools and conduct more complex analyses using spatial statistics and data interpretation skills. Offered at PSLA
	GIS 400 (2 credit)	Students will review Geospatial software skills and knowledge. Students will complete an approved project, including all project aspects, from project planning to implementation and presentation of results. Students will also prepare to take the STARS Certification exam at the end of the year. The STARS Exam covers material from all previous Geospatial Technology courses, and prepares students for either an entry-level Geospatial Technician position or college. Offered at PSLA
Health Professions (P-TECH)	HPP 100 (1 credit)	This course provides an introduction to the biomedical sciences through hands-on projects and problems. Students will investigate human body systems and various health conditions including heart disease, diabetes, sickle-cell disease, hypercholesterolemia, and infectious diseases. This course is designed to provide an overview of all the courses in the Health Professions Program and lay the scientific foundation for subsequent courses. Offered at PSLA
	HPP 200	This is an inquiry-based course designed to complement students' mathematics and science courses. In the Human Body Systems course, students examine the

	(1 credit)	interactions of body systems as they explore identity, communication, power, movement, protection, and homeostasis. Students design experiments, investigate the structures and functions of the human body, and use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration. Exploring science in action, students build organs and tissues on a skeletal manikin, work through interesting real-world cases, and play the role of biomedical professionals to solve medical mysteries. The laboratory methods used in the course build upon the previous course, HPP 100 and prepare students for the advanced experimental laboratory techniques used in HPP 300. Offered at PSLA
	HPP 300 (2 credit)	This is an inquiry-based course designed to complement students' mathematics and science courses. In the Medical Interventions course, students investigate how to prevent, diagnose, and treat disease as they follow the life of a fictitious family. Students will explore how to detect and fight infection; screen and evaluate the genetic code in human DNA; evaluate options for cancer treatment; and problem-solve when the organs of the body begin to fail. Through real-world cases, students are exposed to a range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, and medical diagnostics. Offered at PSLA
	HPP 400 (2 credit)	HPP 400 is a capstone course that integrates skills and knowledge learned in previous health professions and science courses. This is a laboratory-based course that investigates the structure and function of the human body. Topics covered will include the basic organization of the body, biochemical composition, and major body systems along with the impact of diseases on certain systems. Students will engage in many topics to truly understand the structure and function of the human body. Working from the topics of basic anatomical terminology and the biochemical composition of the human body, to detailed investigation of each of the major systems of the body, students will learn through reading materials, study guides, unit worksheets, group work, projects, and labs. Students will also expand on their professional skills through field trips, internships, research, and professional certifications. Upon completion of this course, students will be prepared to either continue upper-level courses in science and/or enter the workforce with professional certifications. Offered at PSLA
Law Enforcement	LEE 100 (1 credit)	The Law Enforcement 100 course will provide an overview of various aspects of the law enforcement profession through a blending of rigorous academics, experiential activities, as well as physical and mental fitness. It will introduce basic rules, regulations, and standards that students will need to embrace for success in a law enforcement career field to include police, courts, and corrections. The course will also prepare students to use standard criminal justice nomenclature within the context of the subjects and will utilize instruction and research to reinforce the understanding of these definitions. Guest speakers from the criminal justice field and visits to numerous agencies deepen the student's understanding of this career field. Students review court cases and outcomes as they relate to law enforcement at the local, state, and national level. Students will be introduced to case law, Criminal Justice Agencies, tactics, procedures, and techniques through a wide network of supporting organizations. Through these various organizations and field trip experiences, they will learn about penal laws, court procedures and the role of corrections. Offered at PSLA
	LEE 200 (1 credit)	The Law Enforcement 200 course will continue to provide an overview of the law enforcement profession through a blending of rigorous academics, experiential activities, as well as physical and mental fitness. It will introduce basic rules, regulations, and standards that students will need to embrace for success in a law enforcement career field to include police, courts, and corrections. The course will require students to use standard criminal justice nomenclature within the context of the subjects and will utilize instruction and research to reinforce the understanding of these definitions. Guest speakers from the criminal justice field and visits to numerous agencies deepen the student's understanding of this career field. Students will review court cases and outcomes as they relate to law enforcement at the local, state, and

		national level. Students will be study case law, Criminal Justice Agencies, tactics, procedures, and techniques through a wide network of supporting organizations. Through these various organizations and field trip experiences, they will learn about penal laws, court procedures and the role of corrections. Offered at PS LA
	LEE 300 (2 credit)	The Law Enforcement 300 course will provide an overview of police, courts, and corrections through a blending of rigorous academics and experiential activities, as well as physical and mental fitness. It will introduce advanced rules, regulations, and standards that students will need to embrace to be successful. The course will also prepare students for entry into a college level course (CJ 101) with Onondaga Community College. Students will understand how law enforcement integrates into Incident Command Systems through certification in the Federal Emergency Management Agency in two courses. The higher-level class standards and certifications will drive academic rigor and lay the foundation for success in understanding the criminal justice system and how police and law enforcement integrate with courts and corrections. Students will review court cases and outcomes as they relate to law enforcement at the local, state, and national levels. Students will be introduced to case law, criminal justice agencies, tactics, procedures, and techniques through a wide network of supporting organizations. Offered at PS LA
	LEE 400 (2 credit)	The Law Enforcement 400 course will provide an advanced experience to build on Law Enforcement 100, 200 and 300 through a blending of rigorous academics and experiential activities, as well as physical and mental fitness. It progresses the student's knowledge on rules, regulations and standards students need to embrace for career success. The two cornerstone academic pieces are SUPA Forensic Chemistry 113 and Onondaga Community College Criminal Justice 215. Finally, to add the certification process each student will have the opportunity to take the New York State Security Guard Certification 8-hour pre-certification course. The culminating experience of the Law Enforcement curriculum happens in LEE 400 with an internship opportunity, performed with local law enforcement agencies. Offered at PS LA
Manufacturing Technology Pre-Apprenticeship	MAP 100 (1 credit)	This course will introduce students to the Manufacturing Technology Pre-Apprenticeship program and begin their preparation to be considered for a Registered Apprenticeship as an Industrial Manufacturing Technician. Students will explore their interests and skills and begin to relate them to specific manufacturing careers. The focus at this level is on basic technical and career readiness skills that will prepare them for full apprenticeship. Topics include career readiness and communication, workplace safety, fundamental mathematics and measurement, basic print reading, properties of materials, basic tool identification and use and basic electrical systems. Students will also participate in work-based learning activities including professional career coaching from one of over 45 local business partners and workplace visits. Offered at Corcoran, PS LA
	MAP 200 (1 credit)	In this course students will continue their preparation to be considered for a Registered Apprenticeship as an Industrial Manufacturing Technician. The focus at this level continues to be on basic technical and career readiness skills that will prepare them for full apprenticeship. Topics include career readiness and communication, workplace safety, fundamental mathematics and measurement, print reading and drawings, properties of materials, foundations of manufacturing, assembly, and electrical systems. Students will also participate in work-based learning activities including professional career coaching from one of over 45 local business partners and workplace visits. Offered at Corcoran, PS LA
	MAP 300 (2 credit)	In this course students will advance their knowledge and skills in preparation to be considered for a Registered Apprenticeship as an Industrial Manufacturing Technician. The focus at this level is on the application of technical and career readiness skills that will prepare them for full apprenticeship. Topics include career readiness and communication, workplace safety, fundamental mathematics, statistics, and measurement, print reading and drawings, properties of materials, foundations of

		manufacturing, assembly, advanced manufacturing processes and electrical systems. Students will also participate in work-based learning activities including professional career coaching from one of over 45 local business partners, workplace visits and job-shadowing opportunities. Offered at Corcoran, PSLA
	MAP 400 (2 credit)	In this course, students will continue to advance their knowledge and skills in preparation to be considered for a Registered Apprenticeship as an Industrial Manufacturing Technician. The focus at this level is on the consistent application of technical and career readiness skills that will prepare them for full apprenticeship. Topics include career readiness and communication, workplace safety, fundamental mathematics, statistics, and measurement, print reading and drawings, properties of materials, foundations of manufacturing, assembly, advanced manufacturing processes and electrical systems. Students will also participate in work-based learning activities including professional career coaching from one of over 45 local business partners, workplace visits and job-shadowing opportunities, and the possibility of part-time school year and full-time summer internships, and paid pre-apprenticeship positions. Offered at Corcoran, PSLA
Mechanical Technology (P-TECH)	PTP 100 (1 credit)	This course will provide an overview of various aspects of the engineering profession. Students will gain skills in career exploration, learn more about pathways to selected engineering careers and begin to develop foundation skills in professional and ethical responsibilities. Students will learn about practical engineering tools, engineering design and the basics of CAD and CAM, air conditioning and refrigeration. Through various speakers and field trip experiences, they will learn about education and licensing requirements, roles and responsibilities, regulatory agencies, and work settings. Students will also begin to learn and apply standard engineering nomenclature within the context of the subjects, and based on instruction and research, they will begin to understand the need for industry regulations and protocols. In addition, they will practice team building, critical thinking skills, oral and written communications. Offered at PSLA
	PTP 200 (1 credit)	This course will continue the engineering concepts, practices and projects in the level 100 course and cover various aspects of the engineering profession. Students gain additional knowledge in career exploration, including pathways to selected engineering careers. They will work to further develop skills in professional and ethical responsibilities and behaviors. The course introduces students to technical drawing, the use of practical engineering tools, engineering design, CAD, data collection and analysis methods. Fundamentals of electricity, electrical circuits, and input/output devices, as well as drive systems and hydraulics are also covered. Students continue to learn about education and licensing requirements, roles and responsibilities, regulatory agencies and work settings through various speakers and field trip experiences. Students learn and apply standard engineering nomenclature within the context of the subjects and utilize instruction and research for understanding the need for industry regulations and protocols. Research, teamwork, critical thinking, and oral/written communication skills will also be expanded. Offered at PSLA
	PTM 300 (2 credit)	Mechanical Technology is an introduction to basic concepts underlying the computer and its applications in technology and science fields. The focus is on studying the computer for acquiring and presenting information, using spreadsheets to solve problems, collecting and storing data and word processing documents. Topics include: Hardware and software computer concepts, introduction to internet to acquire and share information, introduction to spread sheet applications for solving problems and charting, and using text editors in word processing documents. Introduction to technical presentations, use of application programs for organizing data, and drawing charts and schematics are also covered. Student will develop professional skills along with the application of engineering theory into practice. Offered at PSLA
	PTM 400	The Professional Technology and Cooperative Work Experience Program component expands and enhances skills taught throughout the P-TECH program. Students will be

	(2 credit)	assigned mentors and work with specific manufacturing industry professionals who will facilitate growth opportunities according to the needs of mentoring enterprise. Topics include employability, professionalism, teamwork, time management, design theory problem and solving/analysis. Students will develop 21st Century skills with the application of engineering theory in authentic industry environments within the Syracuse Manufacturing field. Students will perform these internship experiences 5 periods per week. Offered at PSLA
Media Communications	MTC 100 (1 credit)	This course is an introduction to the study of media, journalism and communication and blends written, oral, and graphic communication in a career-based environment. Students will learn the basics of video and photo methods, apply creative and professional framing techniques to their shots, use digital story telling principles, create shot lists, and digitally edit their footage into finished videos. Students will be introduced to the tools and skills used in broadcasting a daily newscast. The class structure is primarily project-based where students will use industry standard hardware and software. Hands-on project work will be supplemented with readings, writing, lectures, demonstrations, video, online research, and critiques. Offered at PSLA
	MTC 200 (1 credit)	Students will learn skills in video, photo, audio, broadcasting, and journalism with a focus on developing a daily news program. Students will build on the foundation from MTC 100: Media Communications 100 – Introduction to Media Communications to learn more advanced video and photo methods, apply creative and professional framing techniques to their shots, use digital story telling principles, create shot lists, and digitally edit their footage into finished videos. The class structure is primarily project-based where students will use industry standard hardware and software. Hands-on project work will be supplemented with readings, writing, lectures, demonstrations, video, online research, and critiques. Offered at PSLA
	MTC 300 (2 credit)	Advanced media is the capstone media class in which students will build on the foundation from MTC 100: Media Communications 100 – Introduction to Media Communications and MTC 200: Media Communications 200 – Digital Multimedia to apply their vast knowledge of video, photo, and design while utilizing industry standard equipment to create professional quality material for authentic audiences around Syracuse. This experience will prepare students to take on entry-level professional roles in media firms or to continue on in the higher education media field. The class structure is primarily project-based where students will use industry standard hardware and software. Hands-on project work will be supplemented with readings, writing, lectures, demonstrations, video, online research, and critiques. Offered at PSLA
	MTC 400 (2 credit)	This non-major course is designed to cover the basics of digital photography. Students will be introduced to digital camera functions. Assignments will address composition, design, color theory and the history of photography to help students work creatively with their digital cameras. Students will be introduced to image editing software (Photoshop) for color correction, image manipulation, and digital output. Class time will include lecture, demonstration, in-class shoots, critique, and hands-on digital lab instruction. Writing and reading assignments as appropriate to the discipline are part of this course. Offered at PSLA
Medical Assisting	MAS 100 (1 credit)	This course is designed to help students identify the interests, traits, and skills necessary for a healthcare career and then help them develop an effective college and career plan. This course gives the student an introduction to the profession of medical assisting, its scope of practice, and the career opportunities available. In addition, students will develop an orientation to the healthcare environment, effective communication skills, and a foundation in medical ethics, biomedical and legal issues, HIPAA, OSHA and CDC regulations, and patient education techniques. Employability, professionalism, and career readiness skills are emphasized. The class will primarily be taught through lecture and demonstration and supported by online

		media materials to address various learning styles. Supervised lab time is provided for students to complete required projects. Offered at PSLA
	MAS 200 (1 credit)	This course is designed to help students develop the knowledge and skills needed to begin to interact with patients as a Certified Medical Assistant. Students will focus on developing their foundational knowledge of the anatomy and physiology of human body systems, including the physical composition and the function of these systems. Students will also focus on learning and applying accurate medical terminology and medical abbreviations pertaining to human body systems. Offered at PSLA
	MAS 300 (2 credit)	This course is designed to provide students with the knowledge and skills required by employers and will focus on the administrative aspects, tasks, and responsibilities of the administrative medical assistant in the medical office. This course will prepare students with interpersonal skills, written and verbal communication skills, and proper telephone etiquette. Students will focus on front desk tasks and responsibilities such as patient check-in and check-out, insurance verification, patient referral services, patient demographics, scheduling patient appointments, and other administrative roles of the medical office. Throughout the course, students will practice critical thinking, problem-solving, and employability skills to become both college and career ready. At the successful completion of the course, students will have the opportunity to take the National Healthcareer Association (NHA) Certified Medical Administrative Assistant (CMAA) Exam. Offered at PSLA
	MAS 400 (2 credit)	This course is designed to provide students with the knowledge and skills required by employers, focusing on the clinical aspects and roles of the medical assistant. Students will practice knowledge and skills in the classroom and then have the opportunity to apply them in real-life, hands-on situations by completing a 160-hour internship at the Syracuse Community Health Center. This internship will provide students with the opportunity to work with other medical professionals and assist with duties and tasks such as rooming patients, assessing patient vital signs, completing patient histories for the physician, patient triage, setting up and assisting with patient exams, assisting with diagnostic and procedural testing and other clinical responsibilities. Throughout the course, students will practice critical thinking, problem-solving, and employability skills to become both college and career ready. Students will be enrolled in HIT 120 Medical Terminology at Onondaga Community College and will earn 3 college credits upon successful completion of the course. Students will have the opportunity to take the National Healthcareer Association (NHA) Certified Clinical Medical Assistant (CCMA) Exam upon successful completion of the course. In addition, students who successfully complete the program, will have the opportunity to be nominated for consideration for a full scholarship to Bryant & Stratton College for the Associate's Degree program of the student's choice. Offered at PSLA
Natural Resources	NAR 100 (1 credit)	This course introduces students to the study of natural resources in an outdoor and classroom setting through hands-on activities and learning. Students will work in groups to investigate and help solve environmental problems and will explore careers available in the natural resources pathways. Major areas of study include environmental health, science measurement and skills, ecology, biomes and ecosystems, population studies, tradeoff investigations, and mineral use and identification. Students will develop an integrated view of the biological, ecological, and social dimensions of the environment and can earn credits from SUNY-ESF, Syracuse University Project Advance and Onondaga Community College. Offered at PSLA, Nottingham
	NAR 200 (1 credit)	Natural Resources 200 is the second course in the CTE pathway and includes additional hands-on learning opportunities both outdoors and inside the classroom. Students will work in groups to gain knowledge about natural resources, the ways they are used and how they are analyzed. Through these activities, they will gain an understanding of various careers options. Students will develop an integrated view of the biological, ecological, and social dimensions of the environment and can earn

		credits from SUNY-ESF, Syracuse University Project Advance and Onondaga Community College Offered at PSLA, Nottingham
	NAR 300 (2 credit)	This course introduces students to the study of natural resources in an outdoor and classroom setting through hands-on activities and learning. Students will work in groups to investigate and help solve environmental problems and will explore career options in the natural resources pathways. Major areas of study include environmental health, science measurement and skills, ecology, biomes and ecosystems, population studies, tradeoff investigations, and mineral use and identification. Students will develop an integrated view of the biological, ecological, and social dimensions of the environment and can earn credits from SUNY-ESF, Syracuse University Project Advance and Onondaga Community College. Offered at PSLA, Nottingham
	NAR 400 (2 credit)	This course introduces students to the study of natural resources in an outdoor and classroom setting through hands-on activities and learning. Students will work in groups to investigate and help solve environmental problems and will explore careers options in natural resources pathways. Major areas of study include environmental health, science measurement and skills, ecology, biomes and ecosystems, population studies, tradeoff investigations, and mineral use and identification. Students will develop an integrated view of the biological, ecological, and social dimensions of the environment and can earn credits from SUNY-ESF, Syracuse University Project Advance and Onondaga Community College. Offered at PSLA, Nottingham
NJROTC	100	This course will introduce students to the meaning of citizenship, the elements of leadership, and the value of scholarship in attaining life goals; promote an awareness of the importance of a healthy lifestyle, including physical fitness, a proper diet, and controlling stress; drug awareness; provide the principles of health and first aid, geography and survival skills and an overview of Naval ships and aircraft. These elements are pursued at the fundamental level. Topics include an introduction to the NJROTC program, Leadership, Citizenship, and the American Government; Wellness, Fitness, and First Aid including diet, exercise and drug awareness, Geography, Orienteering, Survival and Map Reading Skills; Financial Skills and the U. S. Navy. Offered at PSLA
	200	In this course cadets will further develop the traits of citizenship and leadership, and explore the technical areas of naval science and the role of the U. S. Navy in maritime history and the vital importance of the world's oceans to the continued well-being of the United States. Topics include ongoing instruction in Leadership; introduction to Maritime History, including the American Revolution, Civil War, the rise of the U. S. to world power status, World Wars 1 and 2, the Cold War Era and the 1990s and Beyond; introduction to Nautical Sciences to include Maritime Geography, Oceanography, Meteorology, Astronomy, and Physical Sciences. Offered at PSLA
	300	In this course students will broaden their understanding of the operative principles of military leadership, the concept and significance of teamwork, the intrinsic value of good order and discipline in the accomplishment of objectives, and the importance of sea power and national security. Students will gain a more in-depth knowledge of Naval ships and aircraft and an introduction to marine navigation and seamanship. Topics include Sea Power and National Security, Naval Operations and Support Functions, Military Law, and International Law and the Sea; introduction to Ship Construction and Damage Control, Shipboard Organization and Watch Standing, Basic Seamanship, Marine Navigation, and Naval Weapons and Aircraft and ongoing instruction in leadership, citizenship, and discipline. Offered at PSLA
	400	This course is focused primarily on practical leadership techniques and implementation. The intent is to assist seniors in understanding leadership and improving their leadership skills by putting them in positions of leadership, under supervision, then helping them analyze the reasons for their varying degrees of success throughout the year. Classroom activities include seminars, reading assignments, classroom presentations, and practical work with younger cadets. Seniors are mentored/guided in their preparation for life after high school to include

		college preparation, scholarship applications, and the variety of choices that are available to them. Topics include theoretical and applied aspects of leadership, training, and evaluation of performance. Students will become aware of the techniques used to create motivation, develop goals and activities for a work group, and the proper ways to set a leadership example. Students are provided access to ACT/SAT prep courses, guidance in selecting a college and pursuing available scholarships, and mentoring in establishing long range life goals. Offered at PSLA
Remotely Piloted Aircraft Systems (RPAS) (P-TECH)	RPAS 100 (1 credit)	Students will develop critical and analytical thinking, troubleshooting and problem-solving skills through hands-on activities in this project-based curriculum. This course will introduce students to the fundamentals of Remote Pilot Aerial Systems. Through hands on experience, students will learn the basics of electricity, programming, hardware, and physics. This course will give students a general overview of the Remote Pilot Aerial Systems sequence. Students will have the opportunity to earn integrated math, ELA, and college credits upon successful completion of the program. Offered at PSLA
	RPAS 200 (1 credit)	This course will continue students' study of Remote Pilot Aerial Systems. Through hands on experience, students will learn the basics CADD, GIS, and FAA weather notifications. This course will give students a background in design, navigations, and alert interpretations. Students will have the opportunity to earn integrated math, ELA, and college credits upon successful completion of the program. Offered at PSLA
	RPAS 300 (2 credit)	This course will continue students' study of Remote Pilot Aerial Systems. This course will focus on aerial imagery and FAA part 107 exam prep. Students will learn photography, videography, physics, and general airport operations. Students will have the opportunity to earn integrated math, ELA, and college credits upon successful completion of the program. Offered at PSLA
	RPAS 400 (2 credit)	This course is the final in the 4-year sequence on Remote Pilot Aerial Systems. Through hands-on, project-based experiences, students will continue to apply critical thinking and problem-solving skills while expanding GIS knowledge. They will explore a range of GIS applications, including agriculture, emergency services, insurance and inspection, photography, and videography. Students will perform research on emerging technologies and applications, and with instructor guidance, select and complete independent projects. Students will also have the opportunity to earn integrated math, ELA, and college credits upon successful completion of the program. Offered at PSLA
Urban Teacher Preparation Program	UTP 100 (1 credit)	The purpose of this course is to expose students to the teaching profession foundations of curriculum, professional responsibility, and instructional practice. In addition to learning about the teaching profession, students will develop a career path that includes planning for admission to a state approved college or university classroom teacher preparation program. Students will tour colleges in Syracuse and the surrounding areas, explore admission requirements, and develop their skills in preparation for college and career. Offered at Corcoran, PSLA
	UTP 200 (1 credit)	This course prepares students to understand the nature of human development from conception through adolescence and the connection between student development and plans for instruction in the classroom. Emphasis is placed on theories of cognitive and psychosocial development, the effect of the environment, the role of caregivers and the family, and contemporary social and cultural issues. Students will participate in planned, guided observations of school age children through adolescence in a variety of settings to help students further understand the theories of human development in practical application. Students will continue to develop the components of a working portfolio to be assembled upon completion of the program. Offered at Corcoran, PSLA
	UTP 300 (2 credit)	This course is designed for students to develop the knowledge and skills of the history of education in the United States, as well as curriculum delivery models in response to the needs of all children. Students will develop various instructional materials and activities to promote learning, classroom management strategies, and a supportive

		classroom environment. Students will research and understand the basic theories of motivation that increase student engagement which is tied to student learning. Students will participate in guided observations and field experiences to critique and develop classroom lessons. Students will continue to develop the components of a working portfolio to be assembled upon completion of the program. Offered at Corcoran, PSLA
	UTP 400 (2 credit)	The course is designed for students to apply their knowledge in real world education settings. Students must complete an internship in an approved setting based on students' area of interests. The internship is designed for students to work with a mentor teacher to provide daily supervision and provide the students the opportunities to integrate content and pedagogical knowledge. Students will be observed by the instructor using the local school district's approved formal observation process during the internship. The student will submit a completed portfolio by the end of the course for feedback. Offered at Corcoran, PSLA
Welding	WLD 100 (1 credit)	Students in the Welding 100 course will study the equipment and techniques used for the welding processes most often used in today's industry including plasma arc cutting, oxyfuel gas cutting and welding, Gas Metal Arc Welding (GMAW), Flux-Cored Arc Welding (FCAW), Shielded Metal Arc Welding (SMAW), and Gas Tungsten Arc Welding (GTAW). Flat welding positions and basic joints will be practiced. Pipe and tube welding will be introduced. Classroom instruction will also include career exploration in welding, safety, design, welding theory, math, communication and organizational skills, and introduction to welder certification. As students become proficient in all welding areas, they will have the opportunity to work on customer projects and design. Offered at Corcoran, PSLA
	WLD 200 (1 credit)	Students in the Welding 200 course will continue to study the equipment and techniques used for the welding processes most often used in today's industry including plasma arc cutting, oxyfuel gas cutting and welding, Gas Metal Arc Welding (GMAW), Flux-Cored Arc Welding (FCAW), Shielded Metal Arc Welding (SMAW), and Gas Tungsten Arc Welding (GTAW), brazing and braze welding, soldering, resistance welding and robotic welding. Flat, horizontal, and vertical welding positions and basic joints, pipe, and tube welding will be practiced. Classroom instruction will also include career exploration in welding, safety, design, welding theory, math applications, physics of welding, communication and organizational skills, welding symbols and welder certification. As students become proficient in all welding areas, they will have the opportunity to work on customer projects and design. Offered at Corcoran, PSLA
	WLD 300 (2 credit)	Students in the Welding 300 course will continue to study and become proficient in the equipment and techniques used for the welding processes most often used in today's industry including oxyfuel gas cutting and welding, Gas Metal Arc Welding (GMAW), Flux-Cored Arc Welding (FCAW), Shielded Metal Arc Welding (SMAW), and Gas Tungsten Arc Welding (GTAW), brazing and braze welding, soldering, resistance welding and robotic welding. Flat, horizontal, vertical, and overhead welding positions and basic joints, pipe, and tube welding will be practiced. Classroom instruction will also include career exploration in welding, safety, design, welding theory, math applications, advanced physics of welding, communication, and organizational skills, welding symbols, inspecting, and testing welds, and welder certification. As students become proficient in all welding areas, they will have the opportunity to work on customer projects and design. Offered at Corcoran, PSLA
	WLD 400 (2 credit)	Students in the Welding 400 course will continue to study and begin to master the equipment and techniques used for the welding processes most often used in today's industry including oxyfuel gas cutting and welding, Gas Metal Arc Welding (GMAW), Flux-Cored Arc Welding (FCAW), Shielded Metal Arc Welding (SMAW), and Gas Tungsten Arc Welding (GTAW), brazing and braze welding, soldering, resistance welding and robotic welding. Flat, horizontal, and vertical welding positions and basic joints, pipe, and tube welding will be practiced. Classroom

		<p>instruction will also include career exploration in welding, safety, design, welding theory, math applications, advanced physics of welding, communication, and organizational skills, welding symbols, inspecting, and testing welds, preparation for welder certification, and local internships in welding. As students become proficient in all welding areas, they will have the opportunity to work on customer projects and design. Offered at Corcoran, PSLA</p>
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APPENDIX A

DEPARTMENT-APPROVED ALTERNATIVE EXAMINATIONS ACCEPTABLE FOR MEETING REQUIREMENTS FOR A LOCAL OR REGENTS DIPLOMA	
Approved Alternative Examination	Minimum Acceptable Score
The test score(s) indicated below are the minimum acceptable score(s) that can be substituted for a Regents Examination score of 65 for all students who have completed the course of study for that subject.	
<i>English</i>	
Advanced International Certificate of Education (AICE) English Examination	E
AP English Language and Composition Examination	3
AP English Literature and Composition Examination	3
International Baccalaureate English A1 Standard Level Examination	4
International Baccalaureate English A1 Higher Level Examination	3
<i>Global History and Geography</i>	
AP World History Examination	3
<i>United States History and Government</i>	
AP United States History Examination	3
SAT Subject Test in United States History*	560

*in addition to achieving the established score, students must complete a multi-source, in-depth research project that demonstrates the ability to use primary and secondary sources.

Integrated Algebra

Advanced International Certificate of Education (AICE) Mathematics Examination	E
AP Calculus AB Examination	3
AP Calculus BC Examination	3
International Baccalaureate Mathematics Studies Standard Level Examination	4
International Baccalaureate Mathematics Methods Standard Level Examination	4
International Baccalaureate Mathematics Higher Level Examination	3
International General Certificate of Secondary Education (IGCSE)	A
SAT Subject Test in Mathematics Level 1	470
SAT Subject Test in Mathematics Level 2	510

Geometry and Algebra 2

AP Calculus AB Examination	3
AP Calculus BC Examination	3
SAT Subject Test in Mathematics Level 2	550

Sciences**	
AP Biology Examination	3
SAT Subject Test in Biology E/M	520
SAT Subject Test in Chemistry	540
SAT Subject Test in Physics	530
**In addition to achieving the established scores, students must complete 1,200 minutes of hands-on laboratory work with satisfactory lab reports.	

For additional information on the AICE and IGCSE exams, <http://www.cie.org.uk/qualifications/academic/uppersec/aice>

For additional information on the Advanced Placement or SAT exams, <http://www.collegeboard.org>

For additional information on the International Baccalaureate Mathematics Examinations, <http://www.ibo.org/>

APPENDIX B

HILLSIDE WORK SCHOLARSHIP CONNECTION



Hillside Work Scholarship Connection (HWSC) of Syracuse helps youth stay in school, earn their high school diplomas and prepare for secondary education or employment. Students enter the program in fifth through ninth grade. School-based youth advocates provide 360 degree support to help students develop good habits, acquire social skills, and achieve their potential to become contributing, responsible young people at home, in school and at work.

For more information about the Syracuse Work Scholarship Connection program, please contact Lisa Berardi lberardi@hillside.com, (315) 558-6108



LIBERTY PARTNERSHIPS PROGRAM

Le Moyne College, Onondaga Community College and Syracuse University sponsor the Liberty Partnerships Program (LPP). The program was established in 1988 to address New York State's significant high school dropout rate. Over 40 colleges and universities across the state partner with students in grades 6-12 who may be at risk or underprepared for college and/or a career.

Students in the Onondaga Community College Liberty Partnerships Program enroll in grades 9-12 with a commitment to maintaining enrollment in the Program through graduation and the first year of post-secondary education or career. Throughout their tenure in LPP, students benefit from comprehensive academic support services and special programming to ensure a successful transition from high school to post-secondary education or a meaningful career. Graduating LPP students are also able to earn scholarships from selected LPP-sponsoring colleges and universities.

Workforce preparation programming, which is overseen by trained staff, includes year-round grade and age appropriate activities to prepare students to make positive, informed career decisions; resume development, and interviewing workshops; career site visits; guest speakers; and job shadowing and internships at the eleventh and twelfth grade levels.

Academic support services provided: Tutoring in basic skills as needed, homework assistance, SAT examination preparation and review, study skills, academic support workshops, placement/diagnostic testing, Individual Learning Plans

Mark Vazquez - Liberty Partnership Program Director
Whitney Applied Technology Center - W112
(315) 498-2887
m.a.vazquez@sunyocc.edu

The Le Moyne LPP Program offers a wide variety of services and experiences and encourages all of its students to participate...Personal and Academic advising...Tutoring...Opportunities for internships...Cultural and recreational activities...Social events.... All students have access to the following services: Exploring and Experiencing

Advising

LPP has a full-time personal counselor who is always available to meet with students and/or their families. Students also receive frequent academic and career counseling from full-time staff members knowledgeable in such areas as study skills, test taking strategies, course selection and graduation requirements, SAT preparation, Regents requirements, college preparation and selection, and employment skills, strategies, and preparation.

Tutoring

The LPP program employs a staff of professional adult tutors and Le Moyne College students, all of whom work with students on a one-to-one or small group basis to assist students with homework and strengthening of classroom lessons. All tutoring activities take place during the school day in the student's home school so that students can receive timely reinforcement of in-class skills and lessons. Multiple chances to explore and learn more about themselves and others are offered to all LPP students. Whether it be touring college campuses, visiting area businesses, exploring career opportunities, training for a job, taking a career test, completing an internship, or riding a roller coaster, LPP students can choose to participate in many activities which will broaden their horizons and enrich their lives while having fun!

Mary Pat Clark, Director
Romero Hall
(315) 445-4654
clarkmp@lemoyne.edu

The Syracuse University LPP program provides both basic and advanced skill development to Syracuse City School District middle and high school students through tutorial services, career and college exploration activities, and a variety of support and enrichment experiences for students and their families.

[Chandice Haste-Jackson, Ph.D.](#)

315-443-5181

200 Huntington Hall

ON POINT FOR COLLEGE



On Point for College, Inc., is dedicated to making higher education accessible to low-income youth who have the desire and the will to continue their education, but who feel college is out of reach due to economic, academic and other barriers.

Because income and parental educational levels strongly influence the decision to attend college, On Point for College generally targets:

- Teens who are the first in their families to go to college (98% of our students)
- Low-income students who assume that college is financially inaccessible
- Teens from single-parent homes
- Students who fall through the cracks, including GED recipients and high-school grads
- Young adults who have no parent in their life to provide guidance (over 30% of our students), including those who are homeless, aging out of foster care, or refugees

1654 W Onondaga St.

Syracuse, NY 13204 (Catholic Charities Building; enter in rear, on bottom floor)

(315) 362-5003

info@onpointforcollege.org

www.onpointforcollege.org

SAY YES TO EDUCATION FOUNDATION



Say Yes Syracuse is a landmark collaboration that brings the Syracuse City School District, Syracuse University, Onondaga Community College, Say Yes Higher Education Compact partner colleges, Say Yes to Education, Inc., the Syracuse Teachers' Association, the Syracuse Association of Administrators and Supervisors, the City of Syracuse, Onondaga County, the American Institutes for Research, and a diverse group of Syracuse area corporate, non-profit, and philanthropic organizations together to organize people, time, money and resources to provide holistic, year-round support to Syracuse City School District students their K-12 years and beyond. Say Yes to Education and its partners believe every student can graduate high school and college when given the proper supports, resources, and opportunities.

Say Yes Tuition Scholarship

If a Say Yes eligible student enrolls at a Say Yes Higher Education Compact partner college in the SUNY/CUNY system and does not receive the full cost of tuition from state, federal, and/or institutional grants and scholarships, Say Yes will provide a grant for the remaining tuition balance. The Say Yes Tuition Scholarship is available to all students, regardless of family income, at SUNY and CUNY colleges.

Most Higher Education Compact private colleges guarantee full tuition to students from families with incomes of less than \$75,000. Students who attend a private college with family incomes over \$75,000 may be eligible to receive a *Say Yes Choice Grant*. **Please note that tuition does NOT include room, board, fees, books or supplies. The Say Yes Tuition Scholarship ONLY supports tuition, not these other costs.**

<http://sayyessyracuse.org/college-scholarships/scholarship-types>

Say Yes to Education
1005 W. Fayette Street - 4th Floor
Syracuse, NY 13204
(315) 435-6461
info@sayyessyracuse.org

PLEASE SEE THE SAY YES TO EDUCATION WEBSITE FOR A COMPLETE LISTING OF PARTNER INSTITUTIONS.

APPENDIX C

ATHLETIC/ACTIVITY PARTICIPATION

The mission of New York State interscholastic athletic program is to foster the quest for excellence by creating an educational and competitive experience within an atmosphere of sportsmanship. Successful programs develop individual and team potential by promoting high standards of competence, character, civility, and citizenship

Requirements for High School Participation

- Must be enrolled fulltime in the Syracuse City School District in Grades 9-12 until his/her nineteenth birthday. If the age of nineteen years is reached on or after July 1, the student may continue to participate during that year in all sports.
- Student-athletes are mandated by NY State Education Department to pass an annual physical examination. Recommended to be completed by own family physician. Copy of physicians report must be sent to the school nurse.
- SCSD Participation Physical Evaluation form needs to be completed, signed by parent/guardian, and signed by the school nurse.
- Authorization for Medical Treatment form should be completed, signed by parent/guardian, and submitted to the coach.
- SCSD Student/Athletic Behavior Code must be reviewed, signed by both parent/guardian and student-athlete, and submitted to the coach.
- All student-athletes are expected to be in good academic standing.

**It is the recommendation of SCSD that any student interested in applying for NCAA eligibility should enroll and successfully complete, English, math, social studies and science for all four years during high school. This course of study will allow students to receive the maximum amount of subject area credits needed for eligibility.*

NCAA ELIGIBILITY



Students planning to participate in intercollegiate athletics at an NCAA Division I or II institution must have their academic and amateurism status certified by the NCAA Eligibility Center at www.eligibilitycenter.org.

Division I Academic Eligibility

To be eligible to compete in NCAA sports during your first year at a **Division I** school, you must graduate high school and meet ALL the following requirements:

Complete **16 core courses**:

- Four years of English
- Three years of math (Algebra 1 or higher)
- Two years of natural/physical science (including one year of lab science if your high school offers it)
- One additional year of English, math or natural/physical science
- Two years of social science
- Four additional years of English, math, natural/physical science, social science, foreign language, comparative religion or philosophy
- Complete 10 core courses, including seven in English, math or natural/physical science, before your seventh semester. Once you begin your seventh semester, you may not repeat or replace any of those 10 courses to improve your core-course GPA.
- Earn at least a 2.3 GPA in your core courses.
- Earn an SAT combined score or ACT sum score matching your core-course GPA on the Division I sliding scale, which balances your test score and core-course GPA. If you have a low test score, you need a higher core-course GPA to be eligible. If you have a low core-course GPA, you need a higher test score to be eligible.

What If Happens If You Don't Meet The Requirements?

If you have not met all the Division I academic requirements, you may not compete in your first year at college. However, if you qualify as an academic redshirt you may practice during your first term in college and receive an athletics scholarship for the entire year.

To qualify as an academic redshirt, you must graduate high school and meet ALL the following academic requirements:

Complete **16 core courses**:

- Four years of English
- Three years of math (Algebra 1 or higher)
- Two years of natural/physical science (including one year of lab science if your high school offers it)
- One additional year of English, math or natural/physical science
- Two years of social science

- Four additional years of English, math, natural/physical science, social science, foreign language, comparative religion or philosophy
- Earn at least a 2.0 GPA in your core courses.
- Earn an SAT combined score or ACT sum score matching your core-course GPA on the Division I sliding scale.

Division II Academic Eligibility

To be eligible to compete in NCAA sports during your first year at a **Division II** school, you must meet academic requirements for your core courses, grade-point average (GPA) and test scores. The requirements are changing for students who enroll full-time at a Division II school after August 1, 2018.

If you enroll in college BEFORE August 1, 2018

You must graduate high school and meet ALL the following requirements:

Complete **16 core courses**:

- Three years of English.
- Two years of math (Algebra 1 or higher).
- Two years of natural or physical science (including one year of lab science if your high school offers it).
- Three additional years of English, math or natural or physical science
- Two years of social science
- Four additional years of English, math, natural or physical science, social science, foreign language, comparative religion or philosophy
- Earn at least a 2.0 GPA in your core courses.
- Earn a SAT combined score of 820 or an ACT sum score of 68.

AFTER August 1, 2018

You must graduate high school and meet ALL the following requirements:

Complete **16 core courses**:

- Three years of English.
- Two years of math (Algebra 1 or higher).
- Two years of natural or physical science (including one year of lab science if your high school offers it).
- Three additional years of English, math or natural or physical science
- Two years of social science
- Four additional years of English, math, natural or physical science, social science, foreign language, comparative religion or philosophy

- Earn at least a 2.2 GPA in your core courses.
- Earn an SAT combined score or ACT sum score matching your core-course GPA on the Division II sliding scale, which balances your test score and core-course GPA. If you have a low test score, you need a higher core-course GPA to be eligible. If you have a low core-course GPA, you need a higher test score to be eligible.

What If I Don't Meet The Requirements?

If you enroll BEFORE August 1, 2018

If you enroll full-time at a Division II school before Aug. 1, 2018, and you have not met all the Division II academic requirements, you may not compete in your first year. However, if you meet the requirements to be a partial qualifier, you may practice and receive an athletics scholarship in your first year at college. To be a partial qualifier, you must graduate high school and meet **ONE** of the following requirements:

Earn a 2.0 GPA in **16 core courses**:

- Three years of English.
- Two years of math (Algebra 1 or higher).
- Two years of natural or physical science (including one year of lab science if your high school offers it).
- Three additional years of English, math or natural or physical science
- Two years of social science
- Four additional years of English, math, natural or physical science, social science, foreign language, comparative religion or philosophy
- Earn an SAT combined score of 820 or an ACT sum score of 68.

If you enroll in college AFTER August 1, 2018

If you enroll full-time at a Division II school after Aug. 1, 2018, and you have not met all the Division II academic requirements, you may not compete in your first year. However, if you meet the requirements to be a partial qualifier, you may practice and receive an athletics scholarship in your first year at college. To be a partial qualifier, you must graduate high school and meet **ALL** the following requirements:

Complete **16 core courses**:

- Three years of English.
- Two years of math (Algebra 1 or higher).
- Two years of natural or physical science (including one year of lab science if your high school offers it).
- Three additional years of English, math or natural or physical science

- Two years of social science
- Four additional years of English, math, natural or physical science, social science, foreign language, comparative religion or philosophy
- Earn at least a 2.0 GPA in your core courses.
- Earn an SAT combined score or ACT sum score matching your core-course GPA on the Division II sliding scale.

Division III Academic Eligibility

Division III schools provide an integrated environment focusing on academic success while offering a competitive athletics environment. Division III rules minimize potential conflicts between athletics and academics and focus on regional in-season and conference play.

While Division III schools do not offer athletics scholarships, 75 percent of Division III student-athletes receive some form of merit or need-based financial aid.

If you are planning to attend a Division III school, you do not need to register with the NCAA Eligibility Center. Division III schools set their own admissions standards.

The NCAA rules are complex, students should ask coaches, athletic supervisors, and school counselors for help. It is important to let the school counselor know if a student plans to seek an athletic scholarship. More detailed information is available on the NCAA website at <http://www.ncaa.org/>.

Test Scores

If you took the SAT before March 2016 and then take the redesigned SAT at a later date, the NCAA Eligibility Center will not combine section scores from the current and redesigned SAT when determining your initial eligibility. The NCAA Eligibility Center will only combine section scores from the same version of the test. Because the redesigned SAT varies in design and measures different academic concepts than the current SAT, a numerical score on the current test may not be equivalent to the same numerical score on the redesigned test.

BUILDING OUR FUTURE

MISSION

To build, support, and sustain school communities that provide all students with a high-quality education that prepares them to graduate as responsible, active citizens ready for success in college and careers and prepared to compete in a global economy.

VISION

To prepare and inspire all of our students to innovate locally and contribute globally.

ULTIMATE GOAL

An educational community that graduates every student as a responsible, active citizen prepared for success in college, careers, and the global economy.

GOALS

1. Engage families and communities
2. Implement culturally responsive practices
3. Recruit, develop, support and retain the most effective diverse staff
4. Personalize learning for students
5. Provide dynamic, rigorous curriculum and instruction

NOTICE OF NON-DISCRIMINATION

The Syracuse City School District hereby advises students, parents, employees and the general public that it is committed to providing equal access to all categories of employment, programs, and educational opportunities, including career and technical education opportunities, regardless of actual or perceived race, color, national origin, Native American ancestry/ethnicity, creed or religion, marital status, sex, sexual orientation, age, gender identity or expression, disability or any other legally protected category under federal, state or local law.

Inquiries regarding the District's non-discrimination policies should be directed to:

Civil Rights Compliance Officer

Syracuse City School District

725 Harrison Street

Syracuse, NY 13210

(315) 435-4131

Email: CivilRightsCompliance@scsd.us

Thank you in advance for your cooperation.