



SCIENCE ACADEMIES OF NEW YORK CHARTER SCHOOLS

PROGRAM OF STUDIES

2020-2021

**SCIENCE ACADEMIES OF NEW YORK CHARTER SCHOOL
1409 WEST GENESEE STREET, SYRACUSE, NEW YORK 13204**

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Disclaimer: This Program of Studies contains information current as of October 2017. As state and district policies and regulations are revised, an update will be available in the Guidance Office. Some courses in this Program of Studies may not be offered due to lack of enrollment.

Science Academies of New York School Mission Statement

The mission of Science Academies of New York (SANY) is to graduate men and women who think critically and creatively; have attained strong skills in mathematics, science, language, technology, history, and the arts; and are committed to a lifetime of learning and civic involvement. The school will empower students with high intellectual standards—building on their promise as they prepare for college, career, and citizenship.

INTRODUCTION

SANY Charter School's Program of Studies has been prepared for students, parents, teachers, and guidance counselors. Please review this information carefully.

Students will receive individual advisement from guidance counselors to help them make appropriate course selections. In some cases, academic recommendations are necessary from the student's teachers before his/her guidance conference. Students' elective course choices are critical and should be made in alignment with their college and career goals. Students are encouraged to complete a major of five elective courses based on their long-term occupational goals.

Many colleges and universities are highly selective in their admissions. SANY students are encouraged to select a rigorous course of study and enroll in higher-level courses as much as possible. A rigorous senior year of study is an expectation of many colleges and employers. SANY seniors are encouraged to select challenging courses and to consider advanced placement and dual credit options.

Final decisions regarding the actual offering of any particular course for the 2017-2018 school year will be dependent upon enrollment and budget constraints. Therefore, not all classes listed in this catalog are guaranteed to run every academic year. The courses students select form the basis for the employment of teachers and the development of the master schedule.

Planning a student's high school program of studies demands a cooperative effort between home and school. We cannot stress strongly enough the need for careful planning amongst the student, parents, teachers, and counselor for a program to be adapted to individual needs as well as state and local requirements. The program of studies that a student pursues in high school should reflect his or her aspirations, achievements, and attitudes.

Our course offerings provide a wide variety of learning opportunities. As you examine the course selections in this booklet, please bear in mind not only short-term needs but also long-term goals. Beyond state, college and career requirements, you are encouraged to select courses that will be academically stimulating and personally enriching. Above all, please plan a program, which challenges you appropriately, sets realistic goals, and enables you to take advantage of the diversified offerings available. Please consider the following criteria in selecting particular courses. Does the course:

- a. Meet the high school graduation requirements?
- b. Provide an outlet for interests in specific subject areas?
- c. Reflect a significant proficiency level?
- d. Provide a background for post-high school plans leading to career options?
- e. Meet general college entrance requirements?
- f. Meet college entrance requirements specific to schools in which you are interested?

Disclaimer: SANY Charter Schools make every effort to ensure that the information in this Program of Studies is informative and accurate. However, new statutes and regulations may impact, negate, or change the implementation of the programs and courses described. This Program of Studies should in no way be seen as a contract but as a guideline for students as they move through their high school years.

GRADUATION REQUIREMENTS

In order to graduate from Science Academies of New York, students must receive a number of credits from various subject areas as described below, as well as pass certain state tests based on the desired Regents level.

SANY REGENTS DIPLOMA REQUIREMENTS

Students must complete 26 credits of courses and pass 5 regents exams in order to receive a Regents Diploma.

SANY REGENTS DIPLOMA		
Subject Area	Required Credits	Regents Requirements
	26 credits	5 Exams
Mathematics	4	1
English/ Language Arts	6	1
Science *	4*	1
Social Studies	4	1
Foreign Lang.	1	
Fine Arts	1	
Phys Ed **	2	
Health	0.5	
Electives	3.5	
Community Service	50 hrs	
PATHWAY: Humanities (Global or US) or STEM (Math or Science) or Foreign Language (3 years with LOTE B exam)		1***
Total	26	5

* At least one year of physical and one year of life science

** Physical Education: Students need to enroll in PE every semester until they complete 4 years of PE.

***Students may utilize other pathway options by taking alternate examinations. Refer to State "Department-Approved Alternative Examinations Acceptable for Meeting Requirements for a Local or Regents Diploma." at <http://www.p12.nysed.gov/assessment/hsgen/archive/list.pdf>

SANY ADVANCED REGENTS DIPLOMA REQUIREMENTS

Students must complete 26 credits of courses, pass 8 regents exams (1 from Pathways) and complete 1 sequence in order to receive an Advanced Regents Diploma.

Subject Area	Required Credits	Regents Requirements
	26 credits	8 Exams
Mathematics	4	3
English/ Language Arts	6	1
Science *	4 *	2 *
Social Studies	4	1
Foreign Lang.	1	
Fine Arts	1	
Phys Ed **	2	
Health	0.5	
Electives	3.5	
Community Service	50 hrs	
PATHWAY: Humanities (Social Studies or English) or STEM (Math or Science)***		1
SEQUENCE REQUIREMENT: LOTE (3 credits sequence in Foreign Language and LOTE B exam)	0	1
Total	26 cr	8 regents

* At least one year of physical and one year of life science

** Physical Education: Students need to enroll in PE every semester until they complete 4 years of PE.

***Students may utilize other pathway options by taking alternate examinations. Refer to State "Department-Approved Alternative Examinations Acceptable for Meeting Requirements for a Local or Regents Diploma." at <http://www.p12.nysed.gov/assessment/hsgen/archive/list.pdf>

SANY REGENTS DIPLOMA REQUIREMENTS

COMBINED CHART

Students must complete 26 credits of courses to graduate from SANY regardless of their diploma type. In order to receive a Regents Diploma, students must pass 5 regents exams (1 from Pathways). In order to receive an Advanced Regents Diploma, students must pass 8 regents exams (1 from Pathways) and complete 1 sequence.

Subject Area	CREDITS	REGENTS	
	Required Credits (For all Diplomas)	Regents Diploma Requirements	Advanced Regents Diploma Requirements
	26 credits	5 Exams	8 Exams
Mathematics	4	1	3
English/ Language Arts	6	1	1
Science *	4*	1	2*
Social Studies	4	1	1
Foreign Lang.	1		
Fine Arts	1		
Phys Ed **	2		
Health	0.5		
Electives	3.5		
Community Service	50 hrs		
REGENTS PATHWAY: Humanities (Social Studies or English) or STEM (Math or Science) or Foreign Language (3 years with LOTE B exam) or ART (exam) or CDOS (n/a at this time) or CTE (n/a at this time) ***		1	
ADVANCED REGENTS PATHWAY: Humanities (Social Studies or English) or STEM (Math or Science) or CDOS (n/a at this time) ***			1
ADVANCED REGENTS SEQUENCE REQUIREMENT: LOTE (3 credits sequence in Foreign Language and LOTE B exam) or ART (n/a at this time) (5 credits sequence: N/A) or CTE (5 credits sequence N/A			1

)			
Total	26 credits	5 exams	8 exams + 1 sequence

* At least one year of physical and one year of life science.

** Physical Education: Students need to enroll in PE every semester until they complete 4 years of PE.

***Students may utilize other pathway options by taking alternate examinations. Refer to State "Department-Approved Alternative Examinations Acceptable for Meeting Requirements for a Local or Regents Diploma." at <http://www.p12.nysed.gov/assessment/hsgen/archive/list.pdf>

NOTES:

1. Students with an IEP may be exempt from the foreign language requirement if it is specified in their IEP.
2. A Superintendent's Diploma is only for students with disabilities. The following must apply:
 - a. An official, written parent request addressed to the Superintendent of SANY schools is required for a student to be considered for a Superintendent's Diploma.
 - b. The student must achieve a minimum score of 55 on the ELA and one mathematics Regents examination or a successful appeal with a score between 52 and 54.
 - c. Students can work toward the local or Regents Diploma after being granted the Superintendent Diploma.

Types of Advanced NYS Regents Diplomas and Requirements*

In addition, a student must earn an additional 2 units of credit in LOTE (Language Other Than English). These credits can be included in the 22 required credits. Assessment Requirements: 8 Regents exams with a score of 65 or better as follows: 3 Math, 2 Science, ELA, Global History and Geography, US History and Government; and Checkpoint B LOTE examination with a score of 65 or better. Regents with Advanced Designation- Mastery in Math Endorsement Credit Requirements: Same as Regents with Advanced Designation. Assessment Requirements: Meets all assessment requirements for the Regents with Advanced Designation (see above) and, in addition, earns a score of 85 or better on each of the 3 Regents Examinations in Mathematics. Regents with Advanced Designation- Mastery in Science Endorsement Credit Requirements: Same as Advanced Regents Designation. Assessment Requirements: Meets all assessment requirements for the Regents with Advanced Designation (see above) and, in addition, earns a score of 85 or better on each of the 3 Regents Examinations in Science. Regents with Advanced Designation with Honors Credit Requirements: Same as Regents with Advanced Designation. Assessment Requirements: 8 Regents exams with a computed average score of 90 or better as follows: 3 Math, 2 Science, ELA, Global History and Geography, US History and Government; and Checkpoint B LOTE examination with a score of 65 or better. The New York State Education Department defines "mastery" on

individual Regents examinations as a score of 85 or greater with the exception of the English Language Arts exam for which students must earn a 90 or greater to attain mastery status. * The City Honors magnet school course progression is designed to lead to a Regents Diploma with Advanced Designation. See CHS student/parent handbook for CHS graduation requirements. Families of students with special needs should consult with their school counselor for questions. None of the diploma requirements listed above reduce the requirements of the City Honors magnet school diploma.

COURSE OFFERINGS

The High School Program of Studies is designed to provide all students with a wide variety of challenging courses in all curricular areas. Schools must prepare students to succeed in the global economy of the 21st Century. Students must acquire academic knowledge, technical skills, problem-solving abilities, and teamwork techniques. This Program of Studies provides the opportunity for students to prepare for post-secondary education or to apply their skills in the workplace. Students select among courses appropriate for their career plans. Career guidance and counseling is provided to all students to assist them in choosing courses that will prepare them for future career options.

The Dean must approve any course taken for credit outside of the traditional school setting before enrollment in the course.

GUIDELINES FOR REGISTERING TO CLASSES:

All first-year SANY students, sophomores, and juniors must register for eight units of high school credit. All seniors are required to register with at least five units of high school credit.

Students must make an alternate course selection for each elective course. Students and parents should exercise good judgment in selecting alternatives, for these will replace any selected elective courses without further consultation with students or relatives.

English course requirements for graduation:

- a.** SANY schools accept: AP English, OCC ENG 103 & 104, or other pre-approved college-level freshman-level English courses as SANY English courses toward graduation.
- b.** One core/main English course can be assigned to students in one calendar year. Main English courses cannot be doubled up--meaning if a student failed the course first time, that student has to pass that class before they proceed to the next one.
- c.** If a student fails in English 1, 2, 3, or 4, the student cannot graduate on time. He/she has to take these courses in a sequence.

- i. Summer school is the first alternative for a student to recover the credit for the failed English course. The summer school course *must be* taken the summer following the failed English course.
- ii. A pre-approved online English course can replace the failed English course. Resource classes for SWD can be used to support the online English course. The parent is responsible for paying the cost of the online course.
- iii. A passing score on the English Regents can replace English-3.

Placement in 9th-grade mathematics and science classes is determined by the level of mathematics achieved at the end of the 8th grade.

Placement in classes will be determined by grades, test scores, and teacher recommendations. Students should not register for courses for which they are not prepared. It is crucial to understand that each class begins at an expected level of student ability and performance.

Students are reminded that once school begins, a change in course level may be impossible due to the lack of space in the course(s) to which they wish to move or limitations in rearranging other courses in the student's schedule. In such cases, the student is required to remain in the class initially chosen.

AVAILABILITY OF CLASSES:

Decisions on whether courses can be offered are dependent on student enrollment and teacher staffing. SANY reserves the right to cancel or eliminate courses for any given school year. If the administration decides to abort a course due to low student enrollment or lack of teachers, the student's other choice will be used. If that course is also not available, the student will be consulted to make a new selection. If the student cannot be reached, his/her, administrator or counselor will make a choice for them.

GRADING POLICY

GRADE POINT AVERAGE (GPA):

Grade Point Average is calculated with the following steps:

1. Multiply all of the grades (0-100) by course credits
2. Add all those numbers together and find the Total Grade Point
3. Divide Total Grade Points by the number of credits.

WEIGHTED & UNWEIGHTED GPA:

Weighted courses are calculated by adding 10 points for AP/College courses and 5 points for honors courses to the earned grade before multiplying with the credits. **Weighted GPA is utilized only to identify Valedictorian and Salutatorian.** Unweighted GPA does not differentiate any courses during the calculation of GPA.

GRADING SCALE:

SANY calculates the grade point average on a 0-100 scale system and awards semester/year credit. Each full-year course that meets routinely (minimum of 48 minutes a day for 190 days) shall yield one credit. Semester courses that meet routinely shall produce 0.5 credits. A passing grade is 65 or above. Courses with the following letter grades are calculated in the grade point average.

ACADEMIC INTEGRITY

Current and prospective students at SANY are expected to adhere to the values of intellectual and academic honesty and integrity. Violations of academic honesty will not be tolerated.

A. DEFINITION*:

Academic dishonesty describes a wide range of behaviors; the following is offered as a working definition. Academic dishonesty includes but is not limited to:

1. Cheating: Intentionally using unauthorized materials, information, or study aids in any work submitted (e.g. using crib notes, copying another's work during tests, or collaborating with others on out-of-class assignments without permission).
2. Fabrication: Intentionally falsifying or misrepresenting information derived from another source in an assignment (e.g., making up sources for the bibliography of a paper or faking the results of a laboratory assignment).
3. Plagiarism: Deliberately adopting or reproducing ideas, words, or statements of another person as one's own without acknowledgement (e.g., paraphrasing or summarizing a source without acknowledgement, turning in a paper written by another person, buying a paper from a commercial source, failing to properly attribute quotations within a paper, or submitting the same paper for credit in more than one course without the instructor's permission [self-plagiarism]).
4. Facilitating Academic Dishonesty: Intentionally helping another engage in academic dishonesty.
5. Misrepresentation: Providing false information to an instructor concerning an academic exercise (e.g., giving a false excuse for missing a test or deadline or falsely claiming to have submitted a paper).
6. Failure to Contribute: Taking credit for participation in a collaborative project while failing to do one's fair share.
7. Sabotage: Preventing others from completing their work (e.g., disturbing someone's lab experiment or removing materials from a reserved reading file so that others may not use them).

B. EXAMPLES OF ACTIVITIES ASSOCIATED WITH ACADEMIC DISHONESTY:

1. Copying from another's exam, test, or quiz.
2. Giving or receiving answers during an exam, test, or quiz.
3. Using written or electronic aids during an exam, test, or quiz when prohibited.
4. Reviewing current or previous copies of an instructor's exam, test, or quiz.
5. Discussing the nature and/or content of an exam, test, or quiz with students who have not yet taken it.
6. Giving exam, test, or quiz questions to students in another class.

7. Copying materials without citing the original source.
8. Purchasing term papers, projects, etc. and turning them in as original work.
9. Writing papers for another student or hiring a ghostwriter.
10. Submitting the same term paper, project, etc. to another class without permission.
11. Padding entries on a bibliography.
12. Feigning illness to avoid an exam, test, quiz, etc.
13. Turning in a lab report without doing the experiment.
14. Collaborating on any course work unless instructions permit.
15. Submitting work for someone else, or another's work as your own.
16. Engaging in bribery, blackmail, threats or harassment.
17. Altering or forging an official academic document.

Instructors may provide additional examples of activities more specific to their course and/or discipline.

HIGH SCHOOL CREDITS

- a. Students must complete the SANY schools core curriculum which includes passing the courses and taking the required exams by the NYS Education Department to receive Carnegie units toward graduation.
- b. If a student earns a passing score on the Regents exam, they will pass the course with a 65%, automatically.
- c. At the high school level, students will need to pass all required courses/subjects. If they fail a course and take it in summer school and cannot pass it, they will need to repeat the course.
- d. If a student is taking any high school courses in the 8th grade, students must meet the "Grade 9-12 Graduation and Promotion" policy requirements for those courses.

VALEDICTORIAN/SALUTATORIAN

The student with the highest overall weighted GPA will be the Valedictorian. The student with the second highest weighted GPA will be the Salutatorian.

A transfer student must attend SANY for his/her entire junior and senior year to be considered as the Valedictorian or Salutatorian. Grades received in the program of study at his/her previous school will be included.

The cut-off date to calculate the GPA is the end of the third marking period of the senior year.

HONOR ROLL AND HIGH HONOR ROLL

The Honor Roll and High Honor Roll serve as a mark of excellence to recognize students who excel academically. The Honor Roll and High Honor Roll are prepared at the end of each quarter. They are based on cumulative GPA (Grade Point Average) and include all subjects.

To qualify for the High Honor Roll, a student must have a GPA of 90 or above.
To be eligible for the Honor Roll, a student must have a GPA of 85 to 89.

DEAN'S LIST

Students who achieve High Honor Roll for the first 3 marking periods in a row will receive Dean's list.

GRADE REPORTING

Report cards will be issued four times a year, approximately one week after the close of each marking period. Progress reports will be released at the midpoint of each marking period. Report cards and progress reports make note of commendations and recommendations. Specific suggestions are listed for the improvement of any poor academic habits. These reports also include the student's current grade range of performance. A parent should email the teacher if he/she has a question regarding a particular progress report. Grades are always accessible to parents through the SchoolTool system.

SUMMER SCHOOL

Course credits may be earned in any summer school course offered at SANY, by any New York public school district, or any other schools that are approved by the New York State Department of Education. Summer school grades are recorded on the student's transcript with the appropriate coding (SS); they do not replace any grade already earned. Prior approval from the Dean is required before registering for summer school.

Upon completion of an outside summer school course, the student must provide transcripts in order to transfer the earned credit.

COURSE LOAD

All students enrolled as regular students in grades 9 - 11 at SANY must be enrolled in eight courses or unit equivalents. Seniors may leave after 5th period if they are completing all graduation requirements with their current course load. They may take either 5 or 8 credits.

COURSE SCHEDULING PARAMETERS

Each student will carry eight classes per semester. Preference will be given to juniors and seniors when enrollment in any course is too large. The right is reserved by the SANY to withdraw any course offering if there is an insufficient number of students enrolled in the course, if a certified teacher is not available, or if budgetary funds are not available. Student scores on state and local tests as well as previous course grades may affect course placement. Every student is required to be scheduled for lunch. Please note a course request does not necessarily guarantee placement in that course. Students must meet course requirements and prerequisites.

CRITERIA FOR CHANGING SCHEDULES

Students are expected to honor their commitments by attending and satisfactorily completing the courses for which they enroll. Schedule changes will not be made for reasons of convenience or because of teacher preference. Only changes that are educationally beneficial for the student will be considered.

Schedule changes will be considered only for the following reasons:

1. The correction of a clerical error in the schedule. Examples might include a missing course; a conflict between two or more courses; credit for that course has been earned in summer school; failure to have taken a prerequisite course; or a severe imbalance in the course load assigned for each semester.
2. A recommendation from the grade chair.
3. A proposal from a building administrator for disciplinary, attendance, or instructional reasons.
4. A teacher recommends a change based on the fact that the student is misplaced in a particular course or that a change in level would be beneficial to the student. Teacher recommendations for changes according to this criterion must be made before the end of the first two weeks for all semester courses and three weeks for all year long courses. This must be done with the approval of the Administration.

Schedule changes WILL NOT be considered for any of the following reasons:

1. Course content or standards differ from the student's expectations.
2. Dropping a course because it is not needed for graduation.
3. The inability of a student to relate well to a given teacher.
4. Preference for some other subject.
5. Dropping a course to lighten a student's course load.
6. Choice of teachers cannot be honored.
7. Schedules cannot be changed to accommodate jobs after school.
8. Schedules will not be rearranged to accommodate requests for late arrivals or early dismissals.

ADDING OR DROPPING COURSES

Dropping a course is a serious matter and is discouraged; such an action should be done only after much thought and consultation has taken place. The request to drop a course must be submitted in writing by the parent or guardian unless the student is his/her own agent.

Semester Courses

- Requests to drop a semester course will be considered through the first two weeks after the start of the first and third marking periods, provided the student would still be scheduled for eight classes; has the permission of their parent/guardian; and has consulted with his/her, counselor. The transcript will not show a grade or any indication of the course.

Full-Year Courses

- Requests to drop a full-year course will be considered within the first two weeks provided the student would still be scheduled for eight classes; has the permission of their parent/guardian; and has consulted with his/her counselor and the subject supervisor. The transcript will not show a grade or any indication of the course.

After dropping a course, a student may request to add a course, provided the student has parental approval, and the course has space for an additional student.

COLLEGE CREDITS WHILE IN HIGH SCHOOL

SANY students may also obtain college credits through the following programs:

Advanced Placement Courses are designed for students ready for college-level academic work. This program is operated by a national organization, the College Board, which defines course curriculum, provides teacher training, and administers a national standardized examination for each course.

According to SANY regulations, students enrolled in an Advanced Placement course **MUST** take the Advanced Placement examination managed by the College Board. Most colleges award college credit to students who earn at least a rating of “3” out of a possible “5” on the examination, while others require a score of “4”. Some colleges require successful completion of Advanced Placement courses for admission to the college and do not award credits toward the college degree. Parents and students are encouraged to check with the colleges for details.

Dual Enrollment Courses allow students to take college-level courses and earn both high school and college credits. They may be taken at the high school or at a postsecondary institution. Students must have prior approval from the dean to enroll for dual credit and meet the requirements specified by the college. **Students are responsible for verifying any college’s acceptance of credits earned as dual credit.** Enrollment in a double credit course does not guarantee college acceptance. Currently, SANY is offering dual credit college courses in coordination with **OCC (Onondaga Community College)**, **SUNY ESF** and **MVCC (Mohawk Valley Community College)**.

Only courses applicable to a Baccalaureate or an Associate degree offered by accredited institutions may be accepted for dual credit. Tuition, books, and other college course fees shall be at the expense of the student or his/her parents or legal guardians.

Transferring College Courses

- a. SANY grants credits for transferred college courses. If the course does not fall into the SANY course categories, it is counted as an elective credit.
- b. Students must apply for the credit transfer.
- c. A three-hour college course shall transfer as a 0.5 Carnegie unit at the high school.

Students must also request to transfer these credits to the colleges that they will be attending after high school.

AP PROGRAM

Advanced Placement courses are designed to deliver the challenge, rigor and creative opportunities for those students who have demonstrated academic success. Advanced Placement (AP) courses are college-level courses for the most academically capable high school students. They are challenging, stimulating and more demanding in terms of time, effort, and depth of the curricular program. AP courses are the equivalent of college work. Some colleges and universities grant college credits for courses taken, based on scores achieved on national examinations. Students who wish to make application to the program should study the following list of characteristics of the AP Program to ensure that there is a clear understanding of what is required for each of the program's courses:

- Students are required to be able to read 20-30 pages of text as a one-night homework assignment.
- Students must be able to complete all assigned homework assignments on time.
- Students are expected to independently manage multiple, concurrent, long-term projects.
- Students are expected to write multiple drafts of papers, lab reports, and other assignments before submitting the document for final assessment.
- Students must possess the necessary skills for independently organizing collaborative group tasks.
- Students are expected to meet with the teacher individually after school for assistance and enrichment when appropriate.

Advanced Placement Enrollment Criteria

Students need first earn a final grade of A- or better in an academic class. In addition to the final grade, initial course level placement will be based on standardized test results, teacher recommendation and demonstrated competency within the discipline. Recommendations will be based on established classroom participation, proven record of academic achievement, and a demonstrated willingness to achieve.

The AP Exam is a required component of an AP course. Students who do not register for and take the test will not receive AP credits.

COLLEGE PLANNING

Admission to colleges and universities varies from relatively easy to extremely competitive. The institution's philosophy of education, specific course requirements, and other qualifications for acceptance differ between the nation's colleges and universities. All, colleges, however, recognize the desirability of a broad education with a strong foundation in the traditional academic subjects.

Students should begin the planning process when selecting courses for their high school years. The college preparatory curriculum is a four-year course of study; therefore, families should design a four-year plan that is reviewed and revised annually. Students are evaluated for admission not only based on grades earned, but also on the strength of the academic program

undertaken. Students are encouraged to take the highest possible educational program available within his/her limitations during all four years of high school.

ACADEMIC REQUIREMENTS FOR COLLEGE READINESS

Minimum graduation requirements should not be confused with college admission requirements. An academic unit or college entrance unit is the equivalent of one credit in a single academic subject. A semester course of 0.5 credits equals one half college entrance unit. The college in question determines acceptable units. Usually, "academic units" are considered to be full-year courses in college preparatory math, science, English, Social Studies or a foreign language.

While each college prescribes the number and character of the academic units it will accept, a rigorous course load that most colleges prefer consists of:

English: 4-6 units, including 4 core classes

Social Studies: 4-5 units

College-prep Math: 4-5 units

Foreign Language: 4 units (of the same language) or 3 (if the school offers only 3 years)

Science: 4-5 units (with at least two lab sciences)

Due to the high national dropout rate during the first year of college, the following advice is offered to all college-bound seniors:

- **It is more important to complete your first year of college successfully next year, than it is to enjoy your senior year of high school this year. Thus, your 12th-grade program should be a rigorous academic experience.**
- **Start taking college courses during high school.**
- ***Study for Accuplacer during senior year to minimize or avoid remedial college courses.***
- ***Try to score at least within the "SAT College and Career Readiness Benchmarks" which is a score of 480 in Evidence-Based Reading and Writing and a 530 in Math.***

COLLEGE ENTRANCE EXAMINATIONS:

The vast majority of colleges require that a student takes one or more standardized tests for admission. The number depends on the college's policy. It is important to remember that test scores are just one part of the entire applicant profile. At most institutions, test scores alone do not exclude a student from admission, nor do scores alone guarantee admission.

The two most common test programs are the Scholastic Assessment Test (SAT) and the American College Testing Program (ACT). Most students take the SAT. Consult with your counselor regarding the ACT. The Preliminary Scholastic Aptitude Test (PSAT) is available for students in 8th through 11th grades. Colleges may also require or recommend SAT Subject Tests. SAT Subject Tests take one hour for each topic area. You may take one to three tests on any given test date.

It is the student's responsibility to register for all tests and to arrange for the results to be sent to their institution(s) of choice. It is recommended that a student registers for the following tests:

Spring of 8th Grade: **PSAT 8/9**

ACT

This test is an alternative to the SAT. It can be taken during a student's junior and/or senior year. The ACT is divided into four parts: Math, English, Science, Reading, and an optional Writing section. It assesses high school students' general educational development and their ability to complete college-level work.

The student will receive a composite score from 11-36. Students with a solid course background and good grades are encouraged to take the ACT as an alternative to or in addition to the SAT.

If a student has testing modifications, as stated on their IEP, it is the parent/guardian's responsibility to follow-up with the appropriate application and to submit it to the College Board and/or to ACT.

TRANSFERRING INTO SANY

When a student transfers into SANY, the guidance department analyzes their transcript. Most courses will be comparable to courses offered at SANY.

For all transfers, when a student is moving to the next level of instruction (e.g., transferring from Spanish I but enrolling in Spanish 2), the school may enroll the student in the higher level course; but if the student is unsuccessful, move the student back to repeat the transferred course as an audit. The grade transferred will remain on the student's record. Schedule changes require administrative approval and decisions should be made only after consultation with the teacher, student, and parent(s).

TRANSFERRING CREDITS

High school schedules and course offerings vary from high school to high school, both within Syracuse City School District as well as from school district to school district.

Parents and students are cautioned that it may not be possible to transfer all credits for courses in progress from one school to another if the student moves during the middle of a school year. The difficulty in transferring credit increases if the move occurs during the semester. Every effort will be made by the receiving high school to evaluate a student's transcript and move the student into the new schedule with minimal disruption to the student's plan of study. Courses transferred from another New York public school will be re-deployed with the grade and weight awarded by the sending school. (Regents requirements for transfer students 10-11-12)

CONVERTING GRADES ON TRANSCRIPTS

When transcripts are received from accredited out-of-state schools (or in-state from certified sources other than the public schools) and statistical averages are provided, those standards must be used in transferring the grades to the student's record.

Letter Grade	Min Point	Max Point	GPA Impact
A+	98	100	4.00
A	93	97	4.00
A-	90	92	3.66
B+	87	89	3.33
B	83	86	3.00
B-	80	82	2.66
C+	76	79	2.33
C	73	75	2.00
C-	71	72	1.66
D+	69	70	1.33
D	67	68	1.00
D-	65	66	0.66
F	0	64	0.00

If the transcript indicates that the student has earned a passing grade in any course in which he or she had a numerical average lower than 65, that percentage will be converted to a 66 numerical grade on the new scale.

The criterion for accepting transcripts from home schools is a local decision.

CREDIT RECOVERY PROGRAM

The purpose of this program is to offer an opportunity for motivated students to recover lost credit by using an alternative instructional model. Credit Recovery is for students who have met the seat time requirement (120 hours for 1 unit and 60 hours for a ½ unit) and have guidance/counselor recommendation. Students may repeat the course in the following year at SANY. However, recovery courses may be taken by sending home districts or online resources. Parents are responsible for the associated tuition and fees for those courses taken from alternative resources.

GRADUATION CEREMONY/COMMENCEMENT

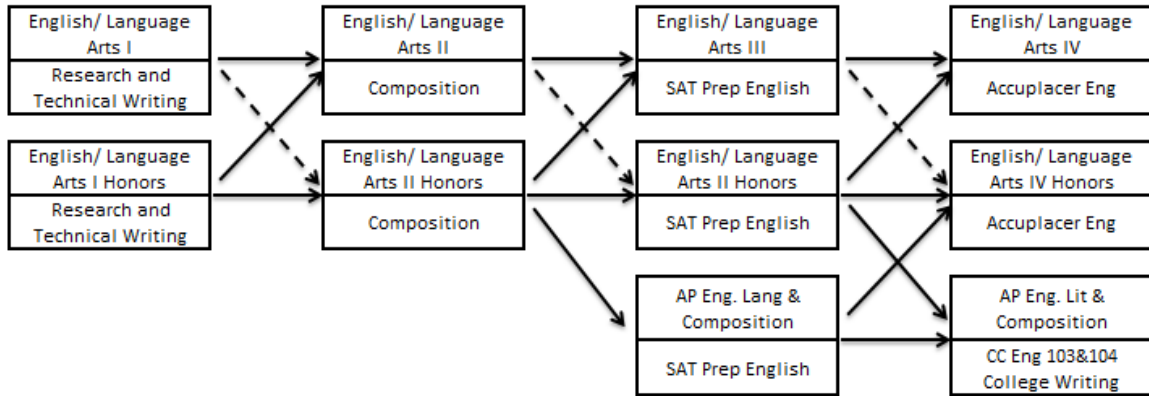
Only those students who pass **all the units required for a diploma** may participate in the graduation ceremony held at the end of the school year.

Students who pass the required 26 units but fail to pass the Regents Exams are not allowed to participate in the graduation ceremony.

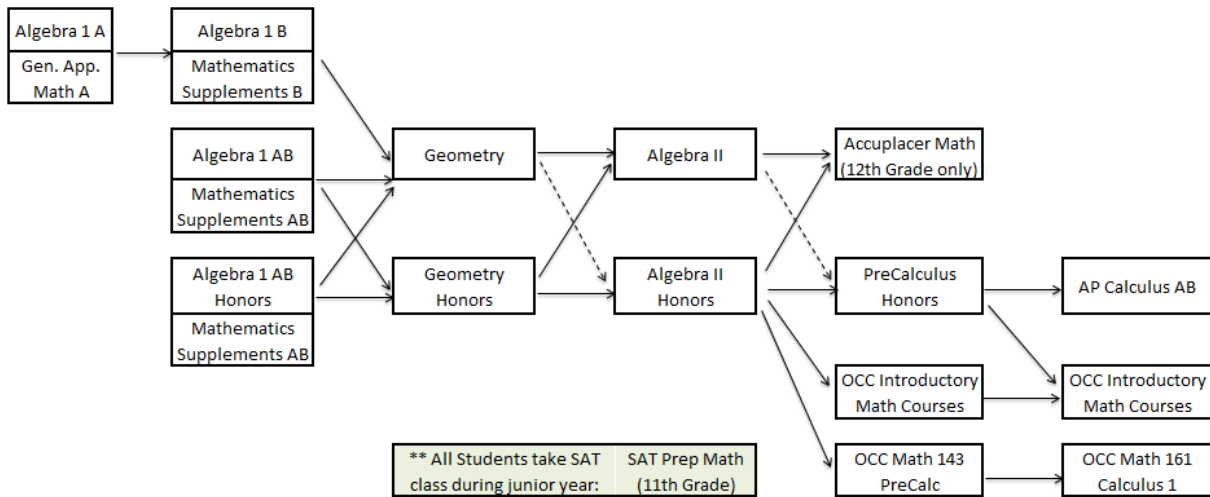
Failure to complete graduation requirements will prohibit participation in the graduation ceremony. The school is not responsible for announcements, caps and gowns, or other graduation paraphernalia for those students who do not complete these requirements.

SYRACUSE ACADEMY OF SCIENCE COURSE SEQUENCES

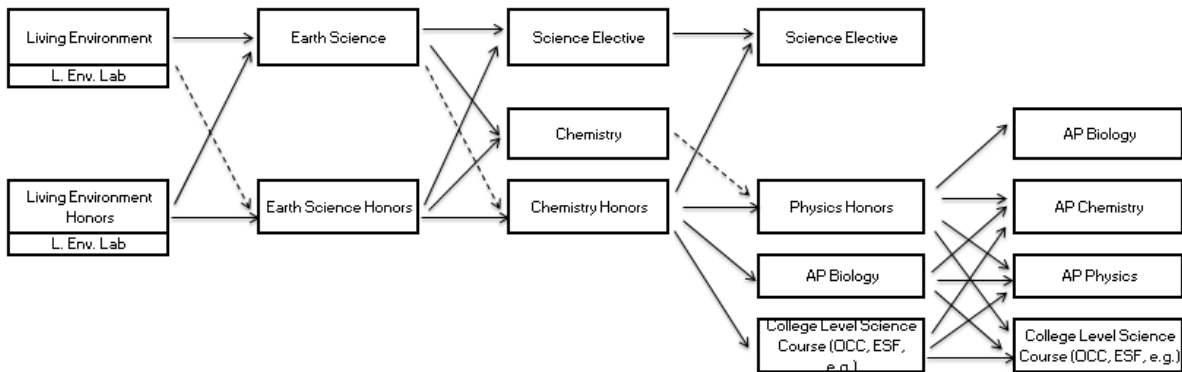
ENGLISH LANGUAGE ARTS COURSES SEQUENCES



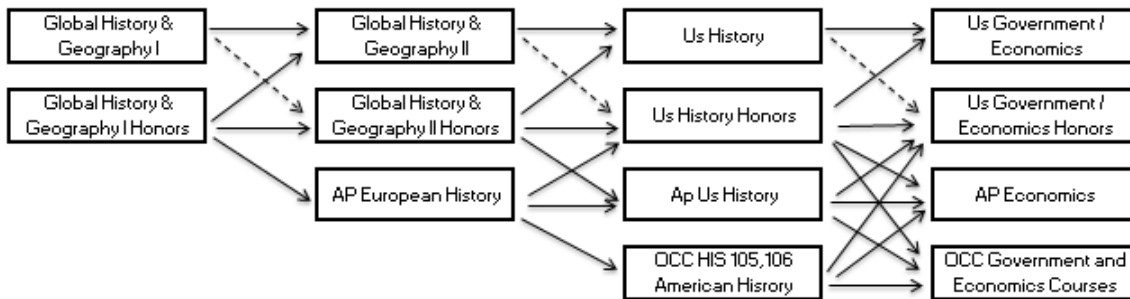
MATHEMATICS COURSES SEQUENCES



SCIENCE COURSES SEQUENCES



SOCIAL STUDIES COURSES SEQUENCES



PHYSICAL EDUCATION COURSES SEQUENCE



FOREIGN LANGUAGE COURSES SEQUENCE



ENGLISH/ LANGUAGE ART COURSES

SCED: 01001

Course: English/Language Arts I (9th grade)

Credit Hour: 1

Prerequisite(s): None

Course Description: The English/Language Arts I (9th grade) course builds upon students' prior knowledge of grammar, vocabulary, word usage, and the mechanics of writing. It includes the four aspects of language use: reading, writing, speaking, and listening. Typically, this course introduces and defines various genres of literature, with writing exercises often linked to reading selections.

Required Regents Exam: None

SCED: 01001H

Course: English/Language Arts I Honors (9th grade)

Credit Hour: 1

Prerequisite(s): Teacher recommendation

Course Description:

As with English/Language Arts I (9th grade) the course builds upon students' prior knowledge of grammar, vocabulary, word usage, and the mechanics of writing. It includes the four aspects of language use: reading, writing, speaking, and listening. Typically, this course introduces and defines various genres of literature, with writing exercises often linked to reading selections.

As an Honors course, the course is more rigorous. Students in this course have to demonstrate a strong work ethic, and be prepared to complete a greater workload, especially in regard to literature analysis and essay writing. There may be reading selections that are different and/or these students may have additional materials to read. Hence, these students need to be recommended by their previous English teacher as having demonstrated the ability to achieve in this setting.

Required Regents Exam: None

SCED: 01002

Course: English/Language Arts II (10th grade)

Credit Hour: 1

Prerequisite(s): English/Language Arts I (9th grade)

Course Description: The English/Language Arts II (10th grade) course offers a balanced focus on composition and literature. Typically, students learn about the aims and audiences of the written forms by

writing expository, persuasive, and creative multi-paragraph essays and writing pieces. Through the study of various genres of literature, students improve their reading comprehension; analyze literature; develop skills such as determining the author's intent and theme; as well as recognizing the techniques used by the author to deliver his or her message.

Required Regents Exam: None

SCED: 01002H

Course: English/Language Arts II (10th Honors)

Credit Hours: 1

Prerequisite(s): English/Language Arts I (9th grade)

Course Description: The English/Language Arts II (10th grade) course offers a balanced focus on composition and literature. Typically, students learn about the aims and audiences of the written forms by writing expository, persuasive, and creative multi-paragraph essays and writing pieces. Through the study of various genres of literature, students improve their reading comprehension; analyze literature; develop skills such as determining the author's intent and theme; as well as recognizing the techniques used by the author to deliver his or her message.

As an Honors course, the course is more rigorous. Students in this course have to demonstrate a strong work ethic, and be prepared to complete a greater workload, especially in regard to literature analysis and essay writing. There may be reading selections that are different and/or these students may have additional materials to read. Hence, these students need to be recommended by their previous English teacher as having demonstrated the ability to achieve in this setting.

Required Regents Exam: None

SCED: 01003CC

Course: English/Language Arts III (Common Core)

Credit Hours: 1

Prerequisite(s): English/Language Arts II (10th grade)

Course Description: English/Language Arts III (11th grade) Common Core courses provide instruction designed to prepare students for the Regents Exam in English Language Arts (Common Core). This course continues to develop students' writing skills. Clear, logical writing patterns, word choice, and usage are emphasized as students write essays. Students also use these skills as they begin to demonstrate the techniques of writing academic research papers. Students continue to read works of literature, which often form the backbone of these writing assignments. Literary

conventions and stylistic devices may receive greater emphasis than in previous courses.

Required Regents Exam: English Language Arts CC

SCED: 01004

Course: English/Language Arts IV (12th grade)

Credit Hour: 1

Prerequisite(s): English/Language Arts III (11th grade)

Course Description: The English/Language Arts IV (12th grade) course blends composition and literature into a cohesive whole as students write critical and comparative analyses of selected literature. Typically, students primarily write multi-paragraph essays, but they also write one or more primary research papers. Students continue to read and analyze more difficult literary pieces and are expected to be able to contribute to an academic conversation successfully.

Required Regents Exam: None

SCED: 01004H

Course: English/Language Arts IV (12th) Honors

Credit Hour: 1

Prerequisite(s): English/Language Arts III (11th grade)

Course Description: The English/Language Arts IV (12th grade) course blends composition and literature into a cohesive whole as students write critical and comparative analyses of selected literature. Students primarily write multi-paragraph essays, but they also write one or more primary research papers. Students continue to read and analyze more difficult literary pieces and are expected to be able to contribute to an academic conversation successfully.

As an Honors course, the course is more rigorous. Students in this course have to demonstrate a strong work ethic, and be prepared to complete a greater workload, especially in regard to literature analysis and essay writing. There may be reading selections that are different and/or these students may have additional materials to read. Hence, these students need to be recommended by their previous English teacher as having demonstrated the ability to achieve in this setting.

Required Regents Exam: None

SCED: 01005

Course: AP English Language & Composition

Credit Hour: 1

Prerequisite(s): English/Language Arts II (10th grade) with a passing score of at least 85%; teacher recommendation

Course Description: Following the College Board's suggested curriculum designed to parallel college-level

English courses, the AP English Language and Composition courses expose students to prose written in a variety of periods, disciplines, and rhetorical contexts. This course emphasizes the interaction of authorial purpose, intended audience, and the subject matter. Through these, students learn to develop stylistic flexibility as they write compositions covering a variety of subjects as well as pieces that are intended for various purposes and audiences.

Required Regents Exam: None

SCED: 01006

Course: AP English Literature & Comp.

Credit Hour: 1

Prerequisite(s): English/Language Arts I, II, III (9th, 10th, 11th grade) with a passing score of at least 85% (B); teacher recommendation

Course Description: Following the College Board's suggested curriculum designed to parallel college-level English courses, AP English Literature and Composition courses enable students to develop critical standards for evaluating literature. Students study the language, character, action, and theme in works of recognized literary merit; enrich their understanding of connotation, metaphor, irony, syntax, and tone; and write compositions of their own, including literary analysis, expository, argumentative, narrative, and creative writing.

Required Regents Exam: English Language Arts CC

SCED: 01065

Course: African American Literature

Credit Hour: 1

Prerequisite(s): None

Course Description: The course will deal with African American Literature from the 15th century to the 21st century. For every century dealt with we will read a novel, short story and/or poems from that time period. We will deal with a wide variety of authors who deal with a variety of topics that make up fictional portrayals of African American life. This class will focus on a wide range of genres including fiction, poetry, short stories and film.

Required Regents Exam: None

SCED: 01103

Course: Composition

Credit Hour: 1

Prerequisite(s): None

Course Description: Composition courses focus on students' writing skills and develop their ability to compose different types of papers for a range of purposes and audiences. These courses enable students

to explore and practice descriptive, narrative, persuasive, or expository styles as they write paragraphs, essays, letters, applications, formally documented papers, and technical reports. Although composition courses may present some opportunities for creative writing, their focus usually remains on non-fiction, scholarly, formal academic writing.

Required Regents Exam: None

SCED: 01105

Course: Research/Technical Writing

Credit Hour: 1

Prerequisite(s): None

Course Description: Research/Technical Writing classes prepare students to write research papers and/or technical reports. These courses emphasize research (primary and secondary sources), organization (material, thoughts, and arguments), and form (writing in a technical style.)

Required Regents Exam: None

SCED: 01105

Course: Reading & Research

Credit Hour: 1

Prerequisite(s): None

Course Description: In Research & Reading, students will be researching, responding to and writing non-fiction papers in a variety of fields including but not limited to science, history, and current events. Emphasis will be on comprehension and writing, demonstrating understanding through written responses with an emphasis on support, analysis, documentation, organization and development.

Required Regents Exam: None

SCED: 01153

Course: Forensic Speech—Debate

Credit Hour: 0.5

Prerequisite(s): None

Course Description: Forensic Speech—Debate courses offer students the opportunity to learn how to use oral skills in formal and informal situations. In these courses, students can develop such skills as formulating arguments through logic and reasoning; research and analysis of material; organization and citation of support materials; argumentative style and skills; and presentation speaking strategies. Often linked to an extracurricular program, these courses introduce students to the methods, aims, and styles used in various kinds of debates. Participation in competition is encouraged, but not always required.

Required Regents Exam: None

SCED: 01203

Course: English—Test Preparation

Credit Hour: 0.5

Prerequisite(s): None

Course Description: English—Test Preparation courses provide students with activities in analytical thinking and with the skills and strategies associated with standardized test taking. Topics covered include vocabulary, reading comprehension, and writing strategies; as well as time management, scoring procedures, and dealing with test-related stress. Course materials may include national and state standardized test review materials such as the ACT, SAT, or PSAT test review materials, current assessment software programs, and released questions from previous standardized examinations.

Required Regents Exam: None

SCED: 01008

Course: English As A Second Language

Credit Hour: 1

Prerequisite(s): None

Course Description: English as a Second Language (ESL) courses are designed for the acquisition and rapid mastery of the English language, focusing on reading, writing, speaking, and listening skills. ESL courses usually begin with extensive listening and speaking practice, building on auditory and oral skills, before moving on to reading; and ultimately, writing. These courses provide an explanation of the basic structure of the English language, enabling students to progress from an elementary understanding of English words and verb tenses to a more comprehensive grasp of various formal and informal styles, to be able to successfully advance to “regular” English courses. ESL classes may also include an orientation to the customs and culture of the diverse population of the United States, as well as skills to navigate the American educational system.

Required Regents Exam: None

SCED: 01055

Course: American Literature/History

Credit Hour: 1

Prerequisite(s): English 9 and 10

Course Description: American Literature/History courses integrate the study of American literature with an overview of U.S. history. These courses may also include other Humanities aspects of American culture, such as art or music. A two-year sequence or two-period per day class may be required to cover the same objectives as would be covered separately in U.S. History Overview and American Literature.

Required Regents Exam: None

SCED: 01060

**Course: Literature of an Author
(Shakespeare)**

Credit Hour: 1

Prerequisite(s): English/Language Arts 9, 10, and 11 with a grade of 85 or higher

Course Description: This course serves the same aim as a general literature course, which is to improve students' language arts and critical-thinking skills; it just achieves this end by focusing on a particular author and his or her body of work. Students determine the underlying assumptions and values within the selected works; compare techniques, styles, and themes in the pieces; and reflect upon the period in which the author lived and the reciprocal influence of the author on the time, as well as the time on the author. Effective analysis and discussion is an integral part of this literature course, and written compositions are often required.

Required Regents Exam: None

SCED: 01066

Course: Strategic Reading

Credit Hour: 0.5

Prerequisite(s): None

Course Description: Strategic Reading courses are intended to improve a student's vocabulary, critical thinking and analysis skills, and reading comprehension. Although these courses typically emphasize works of fiction, they may also utilize works of non-fiction, including textbooks from other disciplines. Strategic Reading courses often include a time-management and organizational focus, offering strategies for note-taking, evaluating the important points of a text, and study skills.

Required Regents Exam: None

SCED: 01104

Course: Creative Writing

Credit Hour: 0.5

Prerequisite(s): None

Course Description: Creative Writing courses offer students the opportunity to develop and improve their technique and individual style in poetry, short stories, drama, essays, and other forms of prose. The emphasis of the course is in writing; however, students may study exemplary representations and authors to obtain a fuller appreciation of the form and craft. Although most creative writing classes expose students to many forms, others concentrate exclusively on one particular type, such as poetry.

Required Regents Exam: None

SCED: 01156

**Course: Applied English and
Communications**

Credit Hour: 0.5

Prerequisite(s): None

Course Description: The Applied English and Communications course teaches students communication skills—reading, writing, listening, speaking—with a concentration on “real-world” applications. These courses emphasize the practical application of communication as a business tool—using technical reports and manuals, business letters, resumes, and applications as examples rather than utilizing traditional scholarly and literary materials.

Required Regents Exam: None

SCED: 01999

**Course: English Language and
Literature—Aide**

Credit Hour: 0.5

Prerequisite(s): Teacher recommendation or request

Course Description: English Language and Literature—Aide courses offer students the opportunity to assist instructors in preparing, organizing, or delivering course curricula. Students may also provide tutorial or instructional assistance to other students.

Required Regents Exam: None

SCED: 01065

Course: Literature of a Theme

Credit Hour: 0.5

Prerequisite(s): English/Language Arts 9, 10, and 11 with a grade of 85 or higher

Course Description: This course serves the same aim as a general literature course, which is to improve students' language arts and critical-thinking skills; it just achieves this end by focusing on selected pieces of literature that explore a particular universal theme, such as Society and Self, People vs. Nature, Triumph of the Human Spirit, and the like.

Students determine the underlying assumptions and values within the selected works; compare techniques, styles, and themes in the pieces; and reflect upon the period in which the author lived and the reciprocal influence of the author on the time, as well as the time on the author. Effective analysis and discussion is an integral part of this literature course, and written compositions are often required.

Required Regents Exam: None

SCED: 01999

Course: Film Appreciation and Analysis

Credit Hour: 0.5

Prerequisite(s): None

Course Description: Film Appreciation and Analysis courses help students understand the critical historical and stylistic elements of cinema. These courses help

students form an aesthetic framework to examine social, political, and historical events in the world and to understand how moving images express the ideas of individuals and society. Course content may include analysis, discussion, and evaluation of multiple film styles including, but not limited to, documentary, short film, drama, horror, and comedy.

Required Regents Exam: None

SCED: 01151

Course: Public Speaking

Credit Hour: 0.5

Prerequisite(s):None

Course Description: Public Speaking courses enable students to develop communication skills that can be used in a variety of speaking situations, such as small and large group discussions; or delivery of lectures or speeches in front of an audience. Course topics may include, but are not limited to, research and organization, writing for verbal delivery, stylistic choices, visual presentation skills, analysis and critique, and development of self-confidence.

Required Regents Exam: None

SCED: 11101

Course: Journalism

Credit Hour: 0.5

Prerequisite(s):None

Course Description: Journalism courses (typically associated with the production of a school newspaper, yearbook, or literary magazine) emphasize writing style and technique as well as production values and organization. Journalism courses introduce students to the concepts of newsworthiness and press responsibility; develop students' skills in writing and editing stories, headlines, and captions; and teach students the principles of production design, layout, and printing. Photography, photojournalism, and digital technology skills may be included.

Required Regents Exam:

SCED: 11102

Course: Photojournalism

Credit Hour:

Prerequisite(s): Instructor recommendation

Course Description: Photojournalism courses expose students to the manner in which photography is used to convey information and experiences. Typically coordinated with production of the school newspaper, yearbook, or other media product, photojournalism courses provide students with the opportunity to improve their photo composition and digital technology skills, as well as to apply their art to journalistic

endeavors. These courses may also cover film development.

Required Regents Exam: None

SCED: 51036

Course: Grade 8 English Language Arts

Credit Hour: No High School credits given

Prerequisite(s): Grade 7 ELA passing grade

Course Description: Grade 8 Language Arts courses build upon students' prior knowledge of grammar, vocabulary, word usage, and the mechanics of writing. They include the four aspects of language use: reading, writing, speaking, and listening. This course uses various genres of literature to improve reading comprehension skills, and links writing exercises for different purposes to those reading selections. This course develops the reading and writing skills students need to be successful in their high school English courses.

Required Regents Exam: State ELA Exam

SCED: 51036H

Course: Grade 8 English Language Arts

Honors

Credit Hour: No High School credits given

Course Description:

Prerequisite(s): Grade 7 ELA grade of 85 or higher, Teacher recommendation

Course Description: Grade 8 Language Arts courses build upon students' prior knowledge of grammar, vocabulary, word usage, and the mechanics of writing. They include the four aspects of language use: reading, writing, speaking, and listening. This course uses various genres of literature to improve reading comprehension skills, and links writing exercises for different purposes to those reading selections. This course develops the reading and writing skills students need to be successful in their high school English courses.

As an Honors course, the course is more rigorous. Students in this course have to demonstrate a strong work ethic, and be prepared to complete a greater workload, especially in regard to literature analysis and essay writing. There may be reading selections that are different and/or these students may have additional materials to read. Hence, these students need to be recommended by their previous English teacher as having demonstrated the ability to achieve in this setting.

Required Regents Exam: State ELA Exam

SCED: 51138

Course: Grade 8 Reading And Writing

Credit Hour: No High School credits given

Course Description: This course is meant to serve as an intervention and/or supplement to better prepare students for high school English curricula. The writing portion of the course builds upon students' prior knowledge and skills and focuses on individual strengths and weaknesses to teach strategies that help students become more successful writers. Writing exercises are used to expand students' understanding of the different purposes of written communication.

The course also covers other reading and language arts targets. These include, but are not limited to: vocabulary acquisition; reading comprehension and analysis; testing practice on current assessment software programs and released questions from previous standardized examinations; and promoting independent reading.

Required Regents Exam: None

SCED: ENG 103

Course: CC English I: Composition

Credit Hour: 0.5

Prerequisite(s): Passing Accuplacer English score

Course Description: Emphasizing the recursive nature of writing and the process of revision, this course teaches students the skills and processes necessary for writing and revising college-level academic prose. Various aspects of writing, including invention/pre-writing, composing, revision, and editing/proofreading will be taught. Critical readings of various nonfiction texts may be used to develop understanding of rhetorical conventions and genres. Composing in and for electronic environments, as well as their conventions, will also be taught. Dual Credit OCC

Required Regents Exam: None

SCED: ENG 104

Course: CC English II: Composition and Literature

Credit Hour: 0.5

Prerequisite(s): Passing Accuplacer English score

Course Description: 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. Dual Credit OCC

Required Regents Exam: None

SCED: EN 101

Course: CC English I: Composition

Credit Hour: 0.5

Prerequisite(s): Passing Accuplacer English score

Course Description: This course focuses on several kinds of writing: self-expressive, informative, and argumentative/persuasive, and others. A minimum of five essay compositions are required. The course emphasizes the composition of clear, correct and effective prose required in a variety of professions and occupations. Dual Credit MVCC

Required Regents Exam: None

SCED: EN 102

Course: CC English II: Ideas & Values in Literature

Credit Hour: 0.5

Prerequisite(s): EN 101

Course Description: This course seeks to deepen a student's understanding of human nature and the human condition through the study of ideas and values expressed in both imaginative literature and a full-length book of nonfiction. To this end, students use and develop critical thinking and language skills mainly in their attempts to raise and answer questions in their readings, discussions, and expository writing tasks, which may include exploratory writing, an academic journal, reports and essays. A library-oriented research project is required. Dual Credit MVCC

Required Regents Exam: None

SCED: EN 110

Course: CC Oral & Written Communication

Credit Hour: 0.5

Prerequisite(s): MVCC reqs.

Course Description: This course covers the effective oral and written contexts of occupational communications. It includes practice in oral presentations, business letters, memos, resumes, proposals, reports, and visual aids. It is designed specifically for A.O.S. degree programs. Dual Credit MVCC

Required Regents Exam: None

SCED: EN 150

Course: CC Effective Speech

Credit Hour: 0.5

Prerequisite(s): EN 101

Course Description: This course is an introduction to public speaking. It emphasizes the fundamentals of preparing, organizing, supporting, and delivering the speech based on factual material. It includes topic selection, audience analysis, fact vs. opinion, outlining, supporting material, and visual support. Informative, demonstrative, and persuasive speeches are presented. Elements of interpersonal communication, logic, and persuasion are discussed. Dual Credit MVCC

Required Regents Exam: None

MATHEMATICS COURSES

SCED: 02052CC

Course: Algebra I AB (Common Core)

Credit Hour: 1

Prerequisite(s): None

Course Description: Algebra I (Common Core) courses provide instruction designed to prepare students for the Regents Examination in Algebra I (Common Core).

Required Regents Exam: None

SCED: 02052CCH

Course: Algebra I AB (Common Core)

Honors

Credit Hour: 1

Prerequisite(s): Passing the previous class with a 90 and Teacher recommendations

Course Description: Algebra I (Common Core) courses provide instruction designed to prepare students for the Regents Examination in Algebra I (Common Core). This course is taught in the honors level

Required Regents Exam: None

SCED: 02053

Course: Algebra I A

Credit Hour:

Prerequisite(s):

Course Description: The first part in a multi-part sequence of Algebra I. This course generally covers the same topics as the first semester of Algebra I, including the study of properties of rational numbers (i.e., number theory), ratio, proportion, and estimation, exponents and radicals, the rectangular coordinate system, sets and logic, formulas, and solving first degree equations and inequalities.

Required Regents Exam: None

SCED: 02054CC

Course: Algebra I B CC

Credit Hour:

Prerequisite(s): Algebra 1A

Course Description: The second part in a multi-part sequence of Algebra I. This course generally covers the same topics as the second semester of Algebra I, including the study of properties of the real number system and operations, evaluating rational algebraic expressions, solving and graphing first degree equations and inequalities, translating word problems into equations, operations with and factoring of polynomials, and solving simple quadratics.

Required Regents Exam: Algebra 1 CC

SCED: 02069

Course: Mathematics-Supplemental A

Credit Hour: 1

Course Description: Mathematics-supplemental courses reinforce general math skills, extend these skills to include some pre-algebra and algebra topics, and use these skills in a variety of practical, consumer, business, and industrial applications. Course topics typically include rational numbers, measurement, basic statistics, ratio and proportion, basic geometry, formulas, and simple equations.

Required Regents Exam: None

SCED: 02072CC

Course: Geometry (COMMON CORE)

Credit Hour: 1

Prerequisite(s): Algebra I

Course Description: Geometry classes, emphasizing an abstract, formal approach to the study of geometry, typically include topics such as properties of plane and solid figures; deductive methods of reasoning and use of logic; geometry as an axiomatic system including the study of postulates, theorems, and formal proofs; concepts of congruence, similarity, parallelism, perpendicularity, and proportion; and rules of angle measurement in triangles.

Required Regents Exam: Geometry CC

SCED: 02072CCH

Course: Geometry (COMMON CORE)

HONORS

Credit Hour: 1

Prerequisite(s): Algebra 1

Course Description: This course will cover many topics, leading to the Common Core exam. The topics covered this year will include; Constructions, Transformations, Angles and Triangles and their Relationship, Congruent Triangles, Euclidean Proofs, Quadrilateral and Polygon Properties, Right Triangles, Similar Figures, Coordinate Geometry, Circles, and Surface Area & Volume. This is an elaborate course and will require students to be self-motivated and attentive. Keeping up with work is vitally important. The concepts in this course will build upon each other.

Required Regents Exam: Geometry CC

SCED: 02106CCH

Course: Algebra 2/Trigonometry Honors

Credit Hour: 1

Prerequisite(s): Passing Algebra 1 and Geometry with 85 and teacher recommendations.

Course Description: Trigonometry/Algebra courses combine trigonometry and advanced algebra topics, and

are usually intended for students who have attained Algebra I and Geometry objectives. Topics typically include right trigonometric and circular functions, inverses, and graphs; trigonometric identities and equations; solutions of right and oblique triangles; complex numbers; numerical tables; field properties and theorems; set theory; operations with rational and irrational expressions; factoring of rational expressions; in-depth study of linear equations and inequalities; quadratic equations; solving systems of linear and quadratic equations; graphing of constant, linear, and quadratic equations; and properties of higher degree equations.

Required Regents Exam:

SCED: 02106

Course: Algebra 2

Credit Hour:1

Prerequisite(s): Algebra I and Geometry

Course Description: Algebra II course include field properties and theorems; set theory; operations with rational and irrational expressions; factoring of rational expressions; in-depth study of linear equations and inequalities; quadratic equations; solving systems of linear and quadratic equations; graphing of constant, linear, and quadratic equations; properties of higher-degree equations; and operations with rational and irrational exponents.

Required Regents Exam: None

SCED: 02104

Course: Math Analysis

Credit Hour:1

Prerequisite(s): Alg 1 and Geometry

Course Description: Analysis courses include the study of polynomial, logarithmic, exponential, and rational functions and their graphs; vectors; set theory; Boolean algebra and symbolic logic; mathematical induction; matrix algebra; sequences and series; and limits and continuity. They may also include some study of trigonometry and/or pre-calculus topics.

Required Regents Exam: None

SCED: 02110

Course: Pre-calculus

Credit Hour: 1

Prerequisite(s): 1

Course Description: Pre-Calculus courses combine the study of Trigonometry, Elementary Functions, Analytic Geometry, and Mathematical Analysis topics as preparation for calculus. Topics typically include the study of complex numbers; polynomial, logarithmic, exponential, rational, right trigonometric, and circular

functions, and their relations, inverses and graphs; trigonometric identities and equations; solutions of right and oblique triangles; vectors; the polar coordinate system; conic sections; Boolean algebra and symbolic logic; mathematical induction; matrix algebra; sequences and series; and limits and continuity.

Required Regents Exam: None

SCED: 02121

Course: Calculus

Credit Hour: 1

Prerequisite(s):

Course Description: Calculus courses include the study of derivatives, differentiation, integration, the definite and indefinite integral, and applications of calculus. Typically, students have previously attained knowledge of pre-calculus topics (some combination of trigonometry, elementary functions, analytic geometry, and mathematical analysis).

Required Regents Exam: None

SCED: 02121 H

Course: Calculus Honors

Credit Hour: 1

Prerequisite(s): Algebra II CC Regents and passing score of 85%

Course Description: Calculus courses include the study of derivatives, differentiation, integration, the definite and indefinite integral, and applications of mathematics. Typically, students have previously attained knowledge of precalculus topics (some combination of trigonometry, elementary functions, analytic geometry, and math analysis).

Required Regents Exam: None

SCED: 02124

Course: AP Calculus AB

Credit Hour:

Prerequisite(s):

Course Description: Following the College Board's suggested curriculum designed to parallel college-level calculus courses, AP Calculus AB provides students with an understanding of the concepts of calculus and experience with its methods and applications. These courses introduce calculus and include the following topics: functions, graphs, limits, and continuity; differential calculus (including definition, application, and computation of the derivative; derivative at a point; derivative as a function; and second derivatives); and integral calculus (including definite integrals and antidifferentiation).

Required Regents Exam: None

SCED: 02151

Course: General Applied Math AB**Credit Hour:** 1*Prerequisite(s): None*

Course Description: General Applied Math courses reinforce general math skills, extend these skills to include some pre-algebra and algebra topics, and use these skills in a variety of practical, consumer, business, and industrial applications. Course topics typically include rational numbers, measurement, basic statistics, ratio and proportion, basic geometry, formulas, and simple equations.

*Required Regents Exam: None***SCED:** 02151**Course: General Applied Math B****Credit Hour:** 1*Prerequisite(s): None*

Course Description: General Applied Math courses reinforce general math skills, extend these skills to include some pre-algebra and algebra topics, and use these skills in a variety of practical, consumer, business, and industrial applications. Course topics typically include rational numbers, measurement, basic statistics, ratio and proportion, basic geometry, formulas, and simple equations.

*Required Regents Exam: None***SCED:** 02151H**Course: General Applied Math AB H****Credit Hour:** 1*Prerequisite(s): None*

Course Description: General Applied Math courses reinforce general math skills, extend these skills to include some pre-algebra and algebra topics, and use these skills in a variety of practical, consumer, business, and industrial applications. Course topics typically include rational numbers, measurement, basic statistics, ratio and proportion, basic geometry, formulas, and simple equations.

*Required Regents Exam: None***SCED:** 02157**Course: Consumer Math****Credit Hour:** 1*Prerequisite(s): None*

Course Description: Consumer Mathematics courses reinforce general mathematics topics (such as arithmetic using rational numbers, measurement, ratio and proportion, and basic statistics) and apply these skills to consumer problems and situations. Applications typically include budgeting, taxation, credit, banking services, insurance, buying and selling products and services, home and/or car ownership and

rental, managing personal income, and investment.

*Required Regents Exam: None***SCED:** 02-OCC**Course: Accounting (College Course)****Credit Hour:** 1*Prerequisite(s): Only open to Juniors & Seniors who have passed Algebra 1***Course Description:** Will be provided by the college*Required Regents Exam: None***SCED:** 02-OCC**Course: Business Math (College Course)****Credit Hour:** 1*Prerequisite(s): Only open to Juniors & Seniors who have passed Algebra 1***Course Description:** Will be provided by the college*Required Regents Exam: None***SCED:** 02056**Course: Algebra II CC****Credit Hour:** 1*Prerequisite(s): Pass Algebra I Regents with 85+*

Course Description: Algebra II course topics typically include field properties and theorems; set theory; operations with rational and irrational expressions; factoring of rational expressions; in-depth study of linear equations and inequalities; quadratic equations; solving systems of linear and quadratic equations; graphing of constant, linear, and quadratic equations; properties of higher degree equations; and operations with rational and irrational exponents.

*Required Regents Exam: Algebra II CC***SCED:** 02002**Course: Integrated Math****Credit Hour:** 1*Prerequisite(s): None*

Course Description: Integrated Math courses emphasize the teaching of mathematics as problem-solving, communication, and reasoning, and emphasize the connections among mathematical topics and between mathematics and other disciplines. The multi-period sequence of Integrated Math replaces the traditional Algebra I, Geometry, Algebra II sequence of courses, and usually covers the following topics during a three- or four-year course: algebra, functions, geometry from both a synthetic and an algebraic perspective, trigonometry, statistics and probability, discrete mathematics, the conceptual underpinnings of calculus, and mathematical structure.

Required Regents Exam: None

SCED: MAT 143

Course: CC Pre-Calculus

Credit Hour: 0.5 HS credit

Prerequisite(s): Completing OCC prerequisites

Course Description: This course is designed to provide the necessary foundation for a standard calculus course. Topics include absolute value and quadratic inequalities, functions and their equations, exponential and logarithmic functions and their applications, right triangle trigonometry, law of sines and law of cosines, trigonometric functions (circular) and their inverses, trigonometric identities and equations, addition and multiple angle formulas, and binomial theorem. Graphing calculator use is required.

Required Regents Exam: None

SCED: MAT 161

Course: CC Calculus I

Credit Hour: 0.5 HS credit

Prerequisite(s): Completing OCC prerequisites

Course Description: This is a first course in calculus for students in mathematics, science, computer science and engineering. Topics include 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.

Required Regents Exam: None

SCED: MA 110

Course: CC Elementary Statistics

Credit Hour: 0.5 HS credit

Prerequisite(s): Completing MVCC prerequisites

Course Description: This course introduces probability and statistics. Topics include graphs, tables, frequency distributions, measures of central tendency and dispersion, normal distribution, correlation and regression, probability, and inferential statistics. This course is available in two formats: lecture only, or lecture plus laboratory using technology.

Required Regents Exam: None

SCED: MA 115

Course: CC Intermediate Mathematics

Credit Hour: 0.5 HS credit

Prerequisite(s): Completing MVCC prerequisites

Course Description: This course introduces intermediate algebra-level knowledge and skills. Topics include exponents and radicals, polynomial and rational expressions, functions and relations and their graphs, inequalities, and systems of linear equations. Linear, quadratic, rational, and radical equations are solved

Required Regents Exam: None

SCED: 02110 H

Course: Precalculus Honors

Credit Hour: 1

Prerequisite(s): Algebra II

Course Description: Pre-Calculus courses combine the study of Trigonometry, Elementary Functions, Analytic Geometry, and Math Analysis topics as preparation for calculus. Topics typically include the study of complex numbers; polynomial, logarithmic, exponential, rational, right trigonometric, and circular functions, and their relations, inverses and graphs; trigonometric identities and equations; solutions of right and oblique triangles; vectors; the polar coordinate system; conic sections; Boolean algebra and symbolic logic; mathematical induction; matrix algebra; sequences and series; and limits and continuity.

Required Regents Exam: None

SCED: 02124

Course: AP Calculus AB

Credit Hour: 1

Prerequisite(s): 85% or more in Algebra-2 Regents

Course Description: Following the College Board's suggested curriculum designed to parallel college-level mathematics courses; AP Calculus AB provides students with an understanding of the concepts of calculus and experience with its methods and applications. These courses introduce calculus and include the following topics: functions, graphs, limits, and continuity; differential calculus (including definition, application, and computation of the derivative; derivative at a point; derivative as a function; and second derivatives); and integral calculus (including definite integrals and antidifferentiation).

Required Regents Exam: None

SCED: 02125

Course: AP Calculus BC

Credit Hour: 1

Prerequisite(s): AP Calculus AB

Course Description: Following the College Board's suggested curriculum designed to parallel college-level calculus courses, AP Calculus BC courses provide students with an understanding of the concepts of calculus and experience with its methods and applications. These courses cover all of the mathematics topics in AP Calculus AB as well as the following subjects: parametric, polar, and vector functions; applications of integrals; and polynomial approximations and series, including series of constants and Taylor series. See SCED Code 02124 for more details.

Required Regents Exam: None

SCED: 02993

Course: Mathematics—Test Preparation

Credit Hour: 0.5

Prerequisite(s): None

Course Description: Mathematics—Test Preparation courses provide students with activities in analytical thinking and with the skills and strategies associated with standardized test taking (such as the PSAT, SAT, and ACT). Topics covered include strategies for arithmetic, algebra, geometry, and quantitative comparison problems as well as time management, scoring procedures, calculator usage, and management of test-related stress.

Required Regents Exam: None

SCED: 02993B

Course: Mathematics—Test Preparation: Accuplacer

Credit Hour: 0.5

Prerequisite(s): Algebra 1, Geometry

Course Description: This course is designed to prepare students to review all algebra and Geometry concepts to prepare them for college level courses. This course also prepare students to Accuplacer exams given at the colleges as a college placement exam.

Required Regents Exam: None

SCED: 52002

Course: Mathematics-Supplemental 8

Credit Hour: No HS credits will be given

Prerequisite(s): None

Course Description: Mathematics-supplemental courses reinforce general math skills, extend these skills to include some pre-algebra and algebra topics, and use these skills in a variety of practical, consumer, business, and industrial applications. Course topics typically include rational numbers, measurement, basic statistics, ratio and proportion, basic geometry, formulas, and simple equations.

Required Regents Exam: None

SCED: 52038

Course: Grade 8 Mathematics

Credit Hour: No HS credits will be given

Prerequisite(s):

Course Description: Eighth grade mathematics is about (1) formulating and reasoning about expressions and equations, including modeling an association in bivariate data with a linear equation, and solving linear

equations and systems of linear equations; (2) grasping the concept of a function and using functions to describe quantitative relationships; (3) analyzing two- and three-dimensional space and figures using distance, angle, similarity, and congruence, and understanding and applying the Pythagorean Theorem.

Required Regents Exam: None

SCED: BUS 102

Course: CC Mathematics Of Business And Finance

Credit Hour: 0.5 HS credit and 3 OCC credits

Prerequisite(s): MAT 084, 088, or permission of instructor.

Course Description: This is a study of 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 solution of business problems. Arithmetic operations, signed numbers, linear equations, percentage and statistical procedures are applied to topics in accounting, retailing, risk management, banking, and finance. This course is a core course for the Business Technology A.A.S. degree and may be used to fulfill a Business or general elective requirement.

Required Regents Exam: None

SCED: 02994

Course: Mathematics Proficiency Development

Credit Hour: 1

Prerequisite(s): None

Course Description: Mathematics Proficiency Development courses are designed to assist students in acquiring the skills necessary to pass proficiency examinations.

Required Regents Exam: None

SCED: 02996

Course: Mathematics—Supplemental

Credit Hour: 1

Prerequisite(s): None

Course Description: Mathematics—Supplemental courses, designed to be taken in addition to or in coordination with other mathematics courses, provide instruction to assist students in acquiring mathematical skills so that students attain necessary grade-level skills or reach a desired competency level.

Required Regents Exam: None

LIFE AND PHYSICAL SCIENCES COURSES

SCED: 03001

Course: Earth Science

Credit Hour: 1

Prerequisite(s): None

Course Description: Earth Science courses offer insight into the environment on earth and the earth's environment in space. While presenting the concepts and principles essential to students' understanding of the dynamics and history of the earth, these courses usually explore oceanography, geology, astronomy, meteorology, and geography.

Required Regents Exam: Earth Science

SCED: 03001H

Course: Earth Science HONORS

Credit Hour: 1

Prerequisite(s): None

Course Description: Earth Science courses offer insight into the environment on earth and the earth's environment in space. While presenting the concepts and principles essential to students' understanding of the dynamics and history of the earth, these courses explore oceanography, geology, astronomy, meteorology, and geography. Students enrolled in Honors Earth Science should expect a higher level of rigor, thinking and quality of work. Students will become actively involved in laboratory experiences and open-ended learning experiences. The honors course takes a more in-depth look at the material in a faster paced manner.

Required Regents Exam: Earth Science

SCED: 03001HL

Course: Earth Science H LAB

Credit Hour:

Prerequisite(s):

Course Description: Students MUST satisfactorily complete all required laboratory assignments in order to sit for the Regents exam.

Required Regents Exam: Earth Science

SCED: 03001L

Course: Earth Science LAB

Credit Hour:

Prerequisite(s):

Course Description: Students MUST satisfactorily complete all required laboratory assignments in order to sit for the Regents exam.

Required Regents Exam: Earth Science

SCED: 03003

Course: Environmental Science

Credit Hour: 0.5

Prerequisite(s): Only to Sophomores, Juniors & Seniors

Course Description: Environmental Science courses examine the mutual relationships between organisms and their environment. In studying the interrelationships among plants, animals, and humans, these courses usually cover the following subjects: photosynthesis, recycling and regeneration, ecosystems, population and growth studies, pollution, and conservation of natural resources.

Required Regents Exam: None

SCED: 03004

Course: Astronomy

Credit Hour: 0.5

Prerequisite(s): Only to Sophomores, Juniors & Seniors

Course Description: Astronomy courses offer students the opportunity to study the solar system, stars, galaxies, and interstellar bodies. These courses usually introduce and use astronomical instruments and typically explore theories regarding the origin and evolution of the universe, space, and time.

Required Regents Exam: None

SCED: 03005

Course: Marine Science

Credit Hour: 1

Prerequisite(s):

Course Description: Courses in Marine Science focus on the content, features, and possibilities of the earth's oceans. They explore marine organisms, conditions, and ecology and sometimes cover marine mining, farming, and exploration.

Required Regents Exam: None

SCED: 03051

Course: Living Environment - Biology

Credit Hour: 1

Prerequisite(s): None

Course Description: Biology courses are designed to provide information regarding the fundamental concepts of life and life processes. These courses include (but are not restricted to) such topics as cell structure and function, general plant and animal physiology, genetics, and taxonomy.

Required Regents Exam: Living Environment

SCED: 03053

Course: Anatomy and Physiology I & II**Credit Hour:** 1*Prerequisite(s): Only to Sophomores, Juniors & Seniors*

Course Description: Usually taken after a comprehensive initial study of biology, Anatomy and Physiology courses present the human body and biological systems in more detail. To understand the structure of the human body and its functions, students learn anatomical terminology, study cells, and tissues, explore functional systems (skeletal, muscular, circulatory, respiratory, digestive, reproductive, nervous, and so on), and may dissect mammals.

*Required Regents Exam: None***SCED:** 03054**Course: Anatomy****Credit Hour:** 1*Prerequisite(s):*

Course Description: Anatomy courses present an in-depth study of the human body and biological system. Students study such topics as anatomical terminology, cells, and tissues and typically explore functional systems such as skeletal, muscular, circulatory, respiratory, digestive, reproductive, and nervous systems.

*Required Regents Exam: None***SCED:** 03056**Course: AP BIOLOGY****Credit Hour:** 1*Prerequisite(s):*

Course Description: Adhering to the curricula recommended by the College Board and designed to parallel college-level introductory biology courses, AP Biology courses emphasize four general concepts: evolution; cellular processes (energy and communication); genetics and information transfer; and interactions of biological systems. For each concept, these courses emphasize the development of scientific inquiry and reasoning skills, such as designing a plan for collecting data, analyzing data, applying mathematical routines, and connecting concepts in and across domains. AP Biology courses include college-level laboratory investigations.

*Required Regents Exam: None***SCED:** 03058**Course: Botany****Credit Hour:** 0.5*Prerequisite(s): Only to Sophomores, Juniors & Seniors*

Course Description: Botany courses provide students with an understanding of plants, their life cycles, and their evolutionary relationships.

*Required Regents Exam: None***SCED:** 03061**Course: Zoology****Credit Hour:** 0.5*Prerequisite(s): Only to Sophomores, Juniors & Seniors*

Course Description: Zoology courses provide students with an understanding of animals, the niche they occupy in their environment or habitat, their life cycles, and their evolutionary relationships to other organisms. These courses should also help students develop an awareness and understanding of biotic communities.

*Required Regents Exam: None***SCED:** 03063**Course: Practices And Nature Of Science****Credit Hour:** 0.5*Prerequisite(s): Only to Sophomores, Juniors & Seniors*

Course Description: Particular Topics in Biology courses concentrate on a particular subtopic within the field of biology (such as botany, zoology, genetics, and so on) that is not otherwise described within this classification system.

*Required Regents Exam: None***SCED:** 03101H**Course: Chemistry Honors****Credit Hour:** 1*Prerequisite(s): Only to (Advanced) Sophomores, Juniors & Seniors*

Course Description: Chemistry courses involve studying the composition, properties, and reactions of substances. These courses typically explore such concepts as the behaviors of solids, liquids, and gasses; acid/base and oxidation/reduction reactions; and atomic structure. Chemical formulas and equations and nuclear reactions are also studied.

*Required Regents Exam: Chemistry***SCED:** 03105**Course: Conceptual Chemistry****Credit Hour:** 1*Prerequisite(s): Only to Sophomores, Juniors & Seniors*

Course Description: Conceptual Chemistry courses are practical, non quantitative chemistry courses designed for students who desire an understanding of chemical concepts and applications.

*Required Regents Exam: None***SCED:** 03151H**Course: Physics I Honors****Credit Hour:**

Prerequisite(s):

Course Description: Physics courses involve the study of the forces and laws of nature affecting matter, such as equilibrium, motion, momentum, and the relationships between matter and energy. The study of physics includes examination of sound, light, and magnetic and electric phenomena.

Required Regents Exam: Physics

SCED: 03152

Course: Physics II (Adv. Studies) Honors

Credit Hour:

Prerequisite(s):

Course Description: Usually taken after a comprehensive initial study of physics, Physics—Advanced Studies courses provide instruction in laws of conservation, thermodynamics, and kinetics; wave and particle phenomena; electromagnetic fields; and fluid dynamics.

Required Regents Exam: None

SCED: 03212

Course: Scientific Research and Design

Credit Hour:

Prerequisite(s):

Course Description: In Scientific Research and Design courses, students conceive of, design, and complete a project using scientific inquiry and experimentation methodologies. Emphasis is typically placed on safety issues, research protocols, controlling or manipulating variables, data analysis, and a coherent display of the project and its outcome(s).

Required Regents Exam: None

SCED: 03214

Course: Forensic Science

Credit Hour: 1

Prerequisite(s):

Course Description: Forensic Science is a laboratory-based course designed for students who are interested in crime scene investigation. The purpose of this course is to allow students to gain experience in investigative science techniques currently used by forensic scientists. This course incorporates biology, anatomy, chemistry, physics, entomology, and earth science. Topics include processing a crime scene, collecting and preserving evidence, fingerprinting, hair and fiber analysis, handwriting analysis, blood typing and toxicology.

Required Regents Exam: None

SCED: 21006

Course: Engineering Design

Credit Hour:

Prerequisite(s):

Course Description: Engineering Design courses offer students experience in solving problems by applying a design development process. Often using solid modeling computer design software, students develop, analyze, and test product solutions models as well as communicate the features of those models.

Required Regents Exam: None

SCED: 21009

Course: Robotics

Credit Hour: 1

Prerequisite(s): Teacher recommendation

Course Description: Robotics courses help students develop and expand their skills and knowledge of robotics and related scientific and engineering topics. Course topics may include principles of mechanics, electronics, hydraulics, pneumatics, programmable logic controllers. These courses may emphasize the use of engineering principles to design and build robots, construct and connect sensors, and program robots in the programming language.

Required Regents Exam: None

SCED: 3002

Course: Geology

Credit Hour: 1

Prerequisite(s):

Course Description: Geology courses provide an in-depth study of the forces that formed and continue to affect the earth's surface. Earthquakes, volcanoes, and erosion are examples of topics that are presented.

Required Regents Exam: None

SCED: 53238

Course: Grade 8 Science

Credit Hour: No HS credits will be issued.

Prerequisite(s): Non

Course Description: Science (grade 8) courses typically include subject matter from several strands of science, including earth sciences, physical sciences, and life or environmental sciences, and may organize material around thematic units. Specific content depends upon state standards for grade 8.

Required Regents Exam: None

SCED: EFB 101

Course: CC General Biology I

Credit Hour: 0.5 HS credits and 3 College Cr from ESF

Prerequisite(s): Successful completion of Living Environment, and Earth Science

Course Description: Introductory exploration of biological principles at ecosystem, population, and

organismal levels. Emphasis on form, function, diversity, ecology and evolution of living organisms.

Required Regents Exam: None

SCED: EFB 102

Course: CC General Biology I Lab

Credit Hour: 0.5 HS credits and 3 College Cr from ESF

Prerequisite(s): Successful completion of Living Environment, and Earth Science

Course Description: Three hours of laboratory per week. 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.

Required Regents Exam:

SCED: EFB 120

Course: CC The Global Environment

Credit Hour: 0.5 HS credit and 3 ESF College credits

Prerequisite(s): none

Course Description: This is a SUNY ESF college level course. It is an integrated overview of large-scale environmental issues and their relation to the development of human societies and resource-use strategies over time. Focus is on population growth and societal pressures on physical and biotic resources. Topics include energy-use issues, causes and socio-economic implications of climate change, pollution, and loss of biodiversity. Fall and Spring.

Required Regents Exam: None

SCED: FCH496

Course: CC Intro. To Renewable Energy

Credit Hour: 0.5 HS credit and 3 ESF College credits

Prerequisite(s): none

Course Description: This is a SUNY ESF college level course. Considers the question of why we need to start thinking of alternative forms of energy to supply our increasing needs as a modern society. Includes the science behind several technologies.

Required Regents Exam: None

SCED: CH 111

Course: CC Introduction to Chemistry I

Credit Hour: 0.5

Prerequisite(s): Only to Sophomores, Juniors & Seniors

Course Description: This course introduces chemistry for those who have had no prior chemistry study or who need chemistry review. Topics include matter, measurement, atomic structure and the periodic table, chemical bonding and reaction, and the three phases of matter. This course does not meet graduation

requirements for Chemistry, Biology, or Engineering majors. Dual Credit MVCC

Required Regents Exam: None

SCED: CH 112

Course: CC Introduction to Chemistry II

Credit Hour: 0.5

Prerequisite(s): Only to Sophomores, Juniors & Seniors

Course Description: This is the second introductory level chemistry course. Topics include solutions, colligative properties, concentrations, acids and bases, salts, solution equilibrium, pH buffers, electrolytes, and an introduction to organic chemistry with attention to organic molecules of biological importance. This course does not meet graduation requirements for Chemistry, Biology or Engineering Majors. Dual Credit MVCC

Required Regents Exam: None

SCED: 03161

Course: Conceptual Physics

Credit Hour: 1

Prerequisite(s): Only to Sophomores, Juniors & Seniors

Course Description: Conceptual Physics courses introduce students to the use of chemicals, characteristic properties of materials, and simple mechanics to better describe the world and nonliving matter. The courses emphasize precise measurements and descriptive analysis of experimental results. Topics covered may include energy and motion, electricity, magnetism, heat, the structure of matter, and how matter reacts to materials and forces.

Required Regents Exam: None

SOCIAL SCIENCES AND HISTORY COURSES

SCED: 04254

Course: Psychology

Credit Hour: 1

Prerequisite(s): None

Course Description: Psychology is the systematic study of individual human behavior and experience. The purpose of this course is to introduce the student to the content, terminology, methodology, and application of the discipline. This survey course contains an introduction followed by four units based on the physiological, cognitive, behavioral, and affective domains of psychology. This elective course stresses the application of academic content to the student's life.

Required Regents Exam: None

SCED: 04051

**Course: Global History and Geography - 1
(World History—Overview)**

Credit Hour: 1

Prerequisite(s): None

Course Description: World History—Overview courses provide students with an overview of the history of human society from early civilization to the contemporary period, examining political, economic, social, religious, military, scientific, and cultural developments. World History—Overview courses may include geographical studies, but often these components are not as explicitly taught as geography.

Required Regents Exam: None

SCED: 04051H

**Course: Global History and Geography - 1
HONORS**

Credit Hour: 1

Prerequisite(s): Teacher recommendation

Course Description: World History—Overview courses provide students with an overview of the history of human society from early civilization to the contemporary period, examining political, economic, social, religious, military, scientific, and cultural developments. World History—Overview courses may include geographical studies, but often these components are not as explicitly taught as geography.

Required Regents Exam: None

SCED: 04052

**Course: Global History and Geography - 2
(World History and Geography)**

Credit Hour: 1

Prerequisite(s): None

Course Description: In addition to covering the objectives of World History—Overview courses, World History and Geography courses provide an overview of world geography. These courses are often developed in response to increased national concern regarding the importance of geography, and they explore geographical concepts.

Required Regents Exam: Global History & Geography

SCED: 04052H

**Course: Global History and Geography - 2
HONORS**

Credit Hour: 1

Prerequisite(s): Teacher recommendation

Course Description: In addition to covering the objectives of World History—Overview courses, World

History and Geography courses provide an overview of world geography. These courses are often developed in response to increased national concern regarding the importance of geography, and they explore geographical concepts.

Required Regents Exam: Global History & Geography

SCED: 04057

Course: Ap World History

Credit Hour: 1

Prerequisite(s): Teacher recommendation

Course Description: Following the College Board's suggested curriculum designed to parallel college-level World History courses, AP World History courses examine world history from 8000 BCE to the present with the aim of helping students develop a greater understanding of the evolution of global processes and contracts and how different human societies have interacted. These courses highlight the nature of changes in an international context and explore their causes and continuity.

Required Regents Exam: Global History & Geography

SCED: 04064

Course: Contemporary World Issues

Credit Hour: 0.5

Prerequisite(s): None

Course Description: Contemporary World Issues courses enable students to study political, economic, and social issues facing the world. These courses may focus on current issues, examine selected issues throughout the 20th century, and look at actual causes or possible solutions.

Required Regents Exam: None

SCED: 04101

Course: U.S. History—Comprehensive

Credit Hour: 1

Prerequisite(s): passed Global 1 and 2

Course Description: U.S. History—Comprehensive courses provide students with an overview of the history of the United States, examining time periods from discovery or colonialism through World War II or after. These courses typically include a historical overview of political, military, scientific, and social developments. Course content may include a history of the North American peoples before European settlement.

Required Regents Exam: U.S. History & Government

SCED: 04101H

**Course: U.S. History - Comprehensive
HONORS**

Credit Hour: 1

Prerequisite(s): passed Global 1 and 2, Teacher recommendation

Course Description: U.S. History—Comprehensive courses provide students with an overview of the history of the United States, examining time periods from discovery or colonialism through World War II or after. These courses typically include a historical overview of political, military, scientific, and social developments. Course content may include a history of the North American peoples before European settlement.

Required Regents Exam: U.S. History & Government

SCED: 04104

Course: AP U.S. History

Credit Hour: 1

Prerequisite(s): World History and Geography (Global-2) with a passing score of 85%, Teacher recommendation

Course Description: Following the College Board's suggested curriculum designed to parallel college-level U.S. History courses; AP U.S. History courses provide students with the analytical skills and factual knowledge necessary to address problems and materials in U.S. history critically. Students learn to assess historical materials and to weigh the evidence and interpretations presented in historical scholarship. The course examines the discovery and settlement of the New World through the recent past.

Required Regents Exam: U.S. History & Government

SCED: 04105

Course: State-Specific Studies (Local History)

Credit Hour: 0.5

Prerequisite(s): None

Course Description: State-Specific Studies courses examine the history, politics, economics, society, and/or cultures of one state in the United States. This course may focus primarily on the history of that state or may take an interdisciplinary approach to the contemporary issues affecting it.

Required Regents Exam: None

SCED: 04106

Course: Contemporary U.S. Issues

Credit Hour: 0.5

Prerequisite(s): None

Course Description: Contemporary U.S. Issues courses study the political, economic, and social issues facing the United States, with or without an emphasis on state and local issues. These courses may focus on current issues or may examine selected issues that span throughout the 20th century to the present.

Required Regents Exam: None

SCED: 04151

Course: U.S. Government—Comprehensive

Credit Hour: 0.5

Prerequisite(s): None

Course Description: U.S. Government—Comprehensive courses provide an overview of the structure and functions of the U.S. government and political institutions and examine constitutional principles, the concepts of rights and responsibilities, the role of political parties and interest groups, and the importance of civic participation in the democratic process. These courses may examine the structure and function of state and local governments and may cover certain economic and legal topics.

Required Regents Exam: None

SCED: 04151H

Course: U.S. Government—Comprehensive (HONORS)

Credit Hour: 0.5

Prerequisite(s): Teacher recommendation

Course Description: U.S. Government—Comprehensive courses provide an overview of the structure and functions of the U.S. government and political institutions and examine constitutional principles, the concepts of rights and responsibilities, the role of political parties and interest groups, and the importance of civic participation in the democratic process. These courses may examine the structure and function of state and local governments and may cover certain economic and legal topics.

Required Regents Exam: None

SCED: 04162

Course: Law Studies

Credit Hour: 0.5

Prerequisite(s): Juniors and Seniors only

Course Description: Law Studies courses examine the history and philosophy of law as part of U.S. society and include the study of the major substantive areas of both criminal and civil law, such as constitutional rights, torts, contracts, property, criminal law, family law, and equity. Although these courses emphasize the study of law, they may also cover the workings of the legal system.

Required Regents Exam: None

SCED: 04201

Course: Economics

Credit Hour: 0.5

Prerequisite(s): None

Course Description: Economics courses provide students with an overview of economics with primary emphasis on the principles of macroeconomics and the U.S. economic system. These courses may also cover topics such as principles of macroeconomics, international economics, and comparative economics. Economic principles may be presented in formal theoretical contexts, applied settings, or both.

Required Regents Exam: None

SCED: 04201H

Course: Economics Honors

Credit Hour: 0.5

Prerequisite(s): Teacher Recommendation

Course Description: Economics courses provide students with an overview of economics with primary emphasis on the principles of macroeconomics and the U.S. economic system. These courses may also cover topics such as principles of macroeconomics, international economics, and comparative economics. Economic principles may be presented in formal theoretical contexts, applied settings, or both.

Required Regents Exam: None

SCED: 04258

Course: Sociology

Credit Hour: 0.5

Prerequisite(s): None

Course Description: Sociology courses introduce students to the study of human behavior in society. These courses provide an overview of sociology, generally including (but not limited to) topics such as social institutions and norms, socialization and social change, and the relationships among individuals and groups in society.

Required Regents Exam: None

SCED: 15051

Course: Criminal Justice

Credit Hour: 0.5

Prerequisite(s): None

Course Description: Criminal Justice courses train students to understand and apply the principles and procedures essential to the overall U.S. criminal justice system. Course topics vary and may include, but are not limited to, structure, history and philosophy of the federal, state, county, and municipal court systems; judicial appointment processes; arrest-to-sentencing sequences; laboratory, forensic, and trial procedure; probation and parole; state and federal correctional facilities; and system interrelationships with law enforcement agencies.

Required Regents Exam: None

SCED: 4999

Course: History Through Film

Credit Hour: 0.5

Prerequisite(s): None

Course Description: This elective course examines the impact of Hollywood in telling the story of the history of the United States. Students will view and critically analyze film for its historical nature and whether or not the film accurately portrays the history of the time period.

Required Regents Exam: None

SCED: 54438

Course: Grade 8 Social Studies

Credit Hour: No HS credits will be issued

Prerequisite(s): None

Course Description: Social Studies (grade 8) courses provide continued development of understanding and skills in the social studies disciplines: history, geography, civics and government, and economics. Typically, these courses focus on single disciplines at a time (e.g., state-specific history and government, U.S. history, world history, or civics) to develop discipline-related skills. Specific content depends upon state standards for grade 8.

Required Regents Exam: None

SCED: 54438H

Course: Grade 8 Social Studies - Honors

Credit Hour: No HS credits will be issued

Prerequisite(s): Teacher recommendation

Course Description: Social Studies (grade 8) courses provide continued development of understanding and skills in the social studies disciplines: history, geography, civics and government, and economics. Typically, these courses focus on single disciplines at a time (e.g., state-specific history and government, U.S. history, world history, or civics) to develop discipline-related skills. Specific content depends upon state standards for grade 8. This course is taught in honors level

Required Regents Exam: None

SCED: HI 103

Course: History of Western Civilization: Early Civilization to 1453

Credit Hour: 1

Prerequisite(s): None

Course Description: The course traces development of Western Civilization from its Greek beginnings to the fall of Constantinople in 1453. Beginning with the Greek experience, Western Civilization developed in uniquely different ways from the rest of the civilized world. Patterns of Western thought led to the emergence of ideals such as the dignity and rights of man, free

expression, social inclusion, and equal opportunity. The influence of Western forms of political and economic organizations on the modern world is examined. Dual Credit MVCC

Required Regents Exam: None

SCED: HI 104

Course: History of Western Civilization: 1453 to Present

Credit Hour: 1

Prerequisite(s): HI 103

Course Description: This course is a continuation of the history of Western Civilization, beginning with the Renaissance and continuing to the present. It investigates the philosophical, international, political, economic, and social movements that dominated events leading up to the present time. It examines the reasons and motivations behind the events and perspectives of modern Western Civilization. Dual Credit MVCC

Required Regents Exam: None

SCED: HI 111

Course: American History 1492-1850

Credit Hour: 0.5

Prerequisite(s): None

Course Description: This survey course develops a comprehensive overview of American history as well as a deeper understanding of how its geography, people, institutions, and culture interact to define the American experience. It begins with American colonization and concludes on the eve of the Civil War. Dual Credit MVCC

Required Regents Exam: None

SCED: HI 112

Course: American History 1850-Present

Credit Hour: 0.5

Prerequisite(s): HI 111

Course Description: This course continues to survey the development of the American story from an agricultural, frontier society to an urban, industrial nation. Emphasis is placed on the economic revolution of the post-Civil War era, its social, political, and military aspects, and the emergence of America as a world leader. It begins with the Civil War and concludes with the present. Dual Credit MVCC

Required Regents Exam: None

SCED: PS 101

Course: American National Government

Credit Hour: 0.5

Prerequisite(s): None

Course Description: This course introduces the discipline of political science through the study of American government. Topics include the concept of

the political system, democracy in theory and practice, the historical background and content of the Constitution, Federalism, and the role of the Supreme Court in civil rights. It stresses these aspects of the American political system: public opinion, voting behavior, the electoral system, political parties, and modern campaigning techniques. Dual Credit MVCC

Required Regents Exam: None

FINE ARTS COURSES

SCED: 05101

Course: Band (Grades 9-12)

Credit Hour: 1 (meets daily) or (0.5 credits)

Prerequisite(s): None

Course Description: Students develop techniques for playing brass, woodwind, and percussion instruments. This course emphasizes rehearsal and performance experiences in a range of styles. Students will perform in a large ensemble, in smaller chamber ensembles, listen to and aesthetically evaluate music, and write, arrange, and improvise music. Students perform as part of school concerts and events.

Required Regents Exam: None

SCED: 05107

Course: Piano

Credit Hour: Meets daily (1) or rotating (0.5 credits or 0.25 cr)

Prerequisite(s): None

Course Description: This course allows students to explore piano performance, techniques, and music theory. Students will rehearse, listen to and aesthetically evaluate music, and write, arrange, and improvise music. Students learn the history of the piano in popular and classical music genres. Students perform as part of school concerts and events.

Required Regents Exam: None

SCED: 05108

Course: Guitar

Credit Hour: Meets daily (1) or rotating (0.5 credits or 0.25 cr)

Prerequisite(s): None

Course Description: This course allows students to explore guitar performance, techniques, and song-writing. Students will read, rehearse, listen to and aesthetically evaluate music, and write, arrange, and improvise music. Students learn the history of the guitar

in popular and classical music genres. Students perform as part of school concerts and events.

Required Regents Exam: None

SCED: 05154

Course: Mixed Media Arts

Credit Hour: 0.5

Prerequisite(s): None

Course Description: Visual Art—Comprehensive courses enable students to explore one or several art forms (e.g., drawing, painting, two- and three-dimensional design, and sculpture) and to create individual works of art. Initial courses emphasize observations, interpretation of the visual environment, visual communication, imagination, and symbolism. Courses cover the language, materials, media, and processes of a particular art form and the design elements used. Advanced courses encourage students to refine their skills while also developing their own artistic styles. Courses may also include the study of major artists, art movements, and styles.

Required Regents Exam: None

SCED: 05154

Course: Creative Art/Comprehensive Foundation

Credit Hour: 0.5

Prerequisite(s): None

Course Description: Visual Art—Comprehensive courses enable students to explore one or several art forms (e.g., drawing, painting, two- and three-dimensional design, and sculpture) and to create individual works of art. Initial courses emphasize observations, interpretation of the visual environment, visual communication, imagination, and symbolism. Courses cover the language, materials, media, and processes of a particular art form and the design elements used. Advanced courses encourage students to refine their skills while also developing their own artistic styles. Courses may also include the study of major artists, art movements, and styles.

Required Regents Exam: None

SCED: 05161

Course: Studio Arts

Credit Hour: 0.5

Prerequisite(s): None

Course Description: Printmaking courses provide students with experience in a variety of traditional and digital printmaking media, techniques, and processes. These courses emphasize elements of art and principles of design and introduce the critique process.

Required Regents Exam: None

SCED: 05172

Course: AP Studio Art/Drawing Portfolio

Credit Hour:

Prerequisite(s): Teacher Recommendation

Course Description: Course Content This course has been developed to accommodate students who have expressed an interest in completing either the AP Studio Art: Drawing Portfolio Exam or the AP Studio Art: 2-D Design Portfolio. Therefore all content meets the requirements as stated in the student exam poster. Through direct teacher instruction, emphasis will be placed on the production of a volume of quality pieces of artwork. Students will address all three sections of the portfolio: Breadth, Concentration, and Quality. [SC1] Students will be challenged to develop their own personal work. Students will develop and demonstrate mastery of concept, composition, and execution of their personal ideas and themes in drawing. Students will also understand that art making is an ongoing process that uses informed and critical decision making to determine outcomes to problems. Students will be expected to develop a comprehensive portfolio, journal, and ongoing sketchbook, and they will also be expected to complete homework and all other images worked on outside of school that address each of these issues in a personal way. Formulaic solutions to problems are discouraged. Preliminary sketches, stories, thoughts, color schemes, and weekly observational assignments and ideas should be kept.

SCED: 05161

Course: Printmaking I (.25)

Credit Hour: (.25)

Prerequisite(s): None

Course Description: Printmaking courses provide students with experience in a variety of traditional, non-traditional and digital printmaking media, techniques, and processes. These courses emphasize fundamental processes of artistic expression through the creation of realistic and abstract prints. Students learn and practice responding to their own art and that of others including master printmakers through analysis, critique, and interpretation for the purpose of reflecting on and refining work.

Required Regents Exam: None

SCED: 05999

Course: Multicultural Arts

Credit Hour: 0.5

Prerequisite(s): None

Course Description: Other Visual and Performing Art courses.

Required Regents Exam: None

SCED: 05155

Course: Visual Arts—Drawing/Painting

Credit Hour: 0.5

Prerequisite(s): None

Course Description: Visual Arts—Drawing/Painting courses provide a foundation in drawing and painting using a variety of media and techniques, emphasizing observation and interpretation of the visual environment. These courses typically include applying the elements of art and principles of design, along with a study of art and artists from a global perspective, and instruction in the critique process. Advanced courses may encourage students to refine their creative process and develop their artistic styles.

Required Regents Exam: None

SCED: 05156

Course: Visual Arts—Drawing

Credit Hour: 0.5

Prerequisite(s): None

Course Description: Visual Arts—Drawing courses provide a foundation in drawing using a variety of techniques and media (such as pen-and-ink, pencil, chalk, and so on), emphasizing observation and interpretation of the visual environment, life drawing, and original drawing. These courses typically include applying the elements of art and principles of design, along with a study of art and artists from a global perspective, and instruction in the critique process. Advanced courses may encourage students to refine their creative processes and develop their artistic styles.

Required Regents Exam: None

SCED: 05157

Course: Visual Art: Painting

Credit Hour: 0.5

Prerequisite(s): None

Course Description: Visual Arts—Painting courses provide a foundation in painting using a variety of techniques and media (such as watercolor; tempera, oils, acrylics, and so on), emphasizing observation and interpretation of the visual environment, life drawing, and imaginative painting. These courses typically include applying the elements of art and principles of design, along with a study of art and artists from a worldwide perspective, and instruction in the critique process. Advanced courses may encourage students to refine their creative processes and develop their own artistic styles.

Required Regents Exam: None

SCED: 05165

Course: Crafts

Credit Hour: 0.5

Prerequisite(s): None

Course Description: Crafts courses help students apply elements of art and principles of design to the materials and accompanying aesthetics of crafts. These courses may survey a wide range of crafts or may focus on only one type of craft; some possibilities include calligraphy, quilting, silk-screening, cake-decorating, tole-painting, mask-making, knitting, crocheting, paper-making, and so on.

Required Regents Exam: None

SCED: 05167

Course: Digital Photography

Credit Hour: 0.5

Prerequisite(s): None

Course Description: Photography courses provide students with an understanding of photographic media, techniques, and processes. These courses focus on development of photographic compositions through manipulation of the elements of art and principles of design. Photography courses may also include the history of photography, historic movements, image manipulation, critical analysis, and some creative special effects.

Required Regents Exam: None

SCED: 05169

Course: Multimedia Art

Credit Hour: 0.5

Prerequisite(s): None

Course Description: Formerly known as Computer-Assisted Art, Multimedia Art courses emphasize applying the elements of art and principles of design about the history and development of cinema, television, and video production. These courses provide students with the opportunity to develop foundational skills and knowledge while they also become more adept in cinema, video, digital live production, electronic, and time-based media.

Required Regents Exam: None

SCED: 55101

Course: Grade 8 Band

Credit Hour: 1 or 0.5

Prerequisite(s): None

Course Description: Students develop techniques for playing brass, woodwind, and percussion instruments. This course emphasizes rehearsal and performance experiences in a range of styles. Students will perform in a large ensemble, in smaller chamber ensembles, listen to and aesthetically evaluate music, and write, arrange, and improvise music. Students perform as part of school concerts and events.

Required Regents Exam: None

SCED: 55138

Course: Music In Our Lives (Music 8)

Credit Hour: 0.5 or 0.25

Prerequisite(s): None

Course Description: The purpose of this course is for eighth grade students to develop comprehensive musicianship with a focus on musical literacy. Students will develop their knowledge of music by engaging in all of music's modalities: reading, listening, singing, performing on instruments, notating and composing, aesthetically evaluating, and contextualizing. The major units of this course will focus on form, genre, performance, and music technology. Course content conforms to Common Core standards for grade 8 music. Students perform as part of school concerts and events.

Required Regents Exam: None

SCED: 55188

Course: Art 8

Credit Hour: No HS credits will be issued

Prerequisite(s): None

Course Description: Art (grade 8) courses provide to students activities that foster creative expression, communication through artistic endeavor, and appreciation of culture and heritage. Activities may include those that enable students to refine their technique, increase their artistic vocabulary, express themselves and their worldview, make connections to other content areas, develop their own aesthetic, and strengthen their critical abilities. Although typically involving the visual arts (drawing, painting, sculpture, crafts, and the like), these courses may also include other forms of art (for example, dance, music, and theater). Specific course content conforms to any existing state standards for grade 8.

Required Regents Exam: None

SCED: MUS 160

Course: CC Music Theory

Credit Hour: 0.5 HS and 3 OCC credits

Prerequisite(s): None

Course Description: A course in basic music theory, including notation, scales, intervals, rhythmic elements, ear training, chords, and modes. Designed for the non-music major and/or prospective music major. No prerequisites. College Credit Now allows students to earn high school and college credit at their high school prior to graduation. Credits appear on your transcript and are transferable to OCC, any four-year college, and the NYS Excelsior scholarship. Students are held to the

same academic standards as students in on-campus SUNY OCC courses.

Required Regents Exam: None

SCED: FA 100

Course: CC Creativity in Art

Credit Hour: 0.5 HS

Prerequisite(s): None

Course Description: This course introduces students to the fundamental principles of creativity with an emphasis on understanding historically significant art styles. Students explore various types of visual expression and apply creative problem-solving principles to both two-dimensional and three-dimensional projects in a variety of media. Students are introduced to the masters, practices, and careers of painting, sculpture, graphic arts, graphic design, animation, film, digital media, illustration, and photography. Dual Credit MVCC

Required Regents Exam: None

SCED: FA 101

Course: CC General Drawing

Credit Hour: 0.5

Prerequisite(s): None

Course Description: This course introduces the tools, media, and theory used in drawing for visual communication. Coursework includes both the study of fundamentals of perspective and the theory of light and shade, as well as a survey of graphic representation. Classroom work consists of drawings that show line, value, tone, form, texture, space, and proportion. Dual Credit MVCC

Required Regents Exam: None

SCED: 05110

Course: Choir (or Chorus)

Credit Hour: 1 (meets daily)

Prerequisite(s): None

Course Description: This ensemble allows students to explore performance of vocal music in a choral setting. Students will rehearse, listen to and aesthetically evaluate music, and notate, arrange, and improvise while studying the world's music and learning proper vocal technique. Students perform as part of school concerts and events.

Required Regents Exam: None

FOREIGN LANGUAGE COURSES

SCED: 06101

Course: Spanish I

Credit Hour: 1

Prerequisite(s): None

Course Description: Designed to introduce students to Spanish language and culture, Spanish I courses emphasize basic grammar and syntax, simple vocabulary, and the spoken accent so that students can read, write, speak, and understand the language at a basic level within predictable areas of need, using customary courtesies and conventions. Spanish culture is introduced through the art, literature, customs, and history of Spanish-speaking people.

Required Regents/Local Exam: LOTE-A

SCED: 06102

Course: Spanish II

Credit Hour: 1

Prerequisite(s): Spanish I

Course Description: Spanish II courses build upon skills developed in Spanish I, extending students' ability to understand and express themselves in Spanish and increasing their vocabulary. Typically, students learn how to engage in discourse for informative or social purposes, write expressions or passages that show understanding of sentence construction and the rules of grammar, and comprehend the language when spoken slowly. Students usually explore the customs, history, and art forms of Spanish-speaking people to deepen their understanding of the culture(s).

Required Regents Exam: None

SCED: 06103

Course: Spanish III

Credit Hour: 1

Prerequisite(s): Spanish I and II

Course Description: Spanish III courses focus on having students express increasingly complex concepts both verbally and in writing while showing some spontaneity. Comprehension goals for students may include attaining more facility and faster understanding when listening to the language spoken at normal rates, being able to paraphrase or summarize written passages, and conversing easily within limited situations.

Required Regents Exam: LOTE-B

SCED: 06104

Course: Spanish IV

Credit Hour: 1

Prerequisite(s): Spanish III

Course Description: Spanish IV courses prepare students to communicate authentically in Spanish by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information, concepts, and ideas on a variety of topics, including connections to other subject areas. Spanish IV courses promote students' understanding of the relationships among the products, practices, and perspectives of Spanish-speaking countries and cultures.

Required Regents Exam: None

SCED: 06661

Course: Turkish I (Turkish Language)

Credit Hour: 1

Prerequisite(s): None

Course Description: Designed to introduce students to a Turkish language and culture, Turkish Language I courses emphasize basic grammar and syntax, simple vocabulary, and the spoken accent so that students can read, write, speak, and understand the language at a basic level within predictable areas of need, using customary courtesies and conventions.

Required Regents/Local Exam: LOTE-A

SCED: 06662

Course: Turkish II

Credit Hour: 1

Prerequisite(s): Turkish I

Course Description: Turkish Language II courses build upon skills developed in Turkish Language I, extending students' ability to understand and express themselves in a Turkish language (e.g., Turkish, Finnish, and Hungarian) and increasing their vocabulary. Typically, students learn how to engage in discourse for informative or social purposes, write expressions or passages that show understanding of sentence construction and the rules of grammar, and comprehend the language when spoken slowly. Students usually explore the customs, history, and art forms of appropriate people to deepen their understanding of the culture(s).

Required Regents Exam: None

SCED: 06663

Course: Turkish III (Turkish Language)

Credit Hour: 1

Prerequisite(s): Turkish Language II

Course Description: Turkish Language III courses focus on having students express increasingly complex concepts both verbally and in writing while showing

some spontaneity. Comprehension goals for students may include attaining more facility and faster understanding when listening to the language spoken at normal rates, being able to paraphrase or summarize written passages, and conversing easily within limited situations.

Required Regents Exam: LOTE-B

SCED: 06664

Course: Turkish IV (Turkish Language)

Credit Hour: 1

Prerequisite(s): Turkish Language III

Course Description: Turkish Language IV courses prepare students to communicate authentically by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information, concepts, and ideas on a variety of topics, including connections to other subject areas. This course promotes students' understanding of the relationships among the products, practices, and perspectives of the countries and cultures speaking the Turkish language.

Required Regents Exam: None

SCED: 06801

Course: American Sign Language I

Credit Hour: 1

Prerequisite(s): None

Course Description: Designed to introduce students to American Sign Language, American Sign Language I courses enable students to communicate with deaf persons through fingerspelling, signed words, and gestures. Course topics may include the culture of and issues facing deaf people.

Required Regents Exam: None

PHYSICAL, HEALTH, AND SAFETY EDUCATION COURSES

SCED: 08001

Course: Physical Education

Credit Hour: 0.5

Prerequisite(s): None

Course Description: Physical Education courses provide students with the knowledge, experience, and

an opportunity to develop skills in more than one of the following sports or activities: team sports, individual/dual sports, recreational sports, and fitness/conditioning activities.

Required Regents Exam: None

SCED: 08002

Course: Team Sports

Credit Hour: 0.5

Prerequisite(s): None

Course Description: Team Sports courses provide to students the knowledge, experience, and opportunity to develop skills in more than one team sport (such as volleyball, basketball, soccer, and so on).

Required Regents Exam: None

SCED: 08003

Course: Individual/Dual Sports

Credit Hour: 0.5

Prerequisite(s): None

Course Description: Individual/Dual Sports courses provide students with the knowledge, experience, and an opportunity to develop skills in more than one individual or dual sport (such as tennis, golf, badminton, jogging/running, racquetball, and so on).

Required Regents Exam: None

SCED: 08005

Course: Fitness/Conditioning Activities

Credit Hour: 0.5

Prerequisite(s): None

Course Description: Fitness/Conditioning Activities courses emphasize conditioning activities that help develop muscular strength, flexibility, and cardiovascular fitness.

Required Regents Exam: None

SCED: 08051

Course: Health Education

Credit Hour: 0.5

Prerequisite(s): None

Course Description: Topics covered within Health Education courses may vary widely, but typically include personal health (nutrition, mental health and stress management, drug/alcohol abuse prevention, disease prevention, and first aid) and consumer health issues. The courses may also include brief studies of environmental health, personal development, and/or community resources.

Required Regents Exam: None

ELECTIVES / OTHER COURSES

SCED: 22206

Course: Life Skills

Credit Hour: 0.5

Prerequisite(s): None

Course Description: Life Skills courses provide students with information about a wide range of subjects to assist them in becoming wise consumers and productive adults. These courses often emphasize process skills, including goal-setting, decision making, and other topics such as the setting of priorities, money and time management, interpersonal relationships, and the development of the self. Additionally, specific topics such as wellness, selecting and furnishing houses, meeting transportation needs, nutrition, preparing food, selecting clothing and building a wardrobe, insurance, taxation, and consumer protection may also be covered.

Required Regents Exam: None

SCED: 22151

Course: Personal and Career Readiness

Credit Hour: 0.5

Prerequisite(s): None

Course Description: Formerly known as Self-Management, Personal, and Career Readiness courses introduce students to the skills and strategies that are helpful in becoming more focused, productive individuals, wage earners, and family members. These courses typically emphasize goal setting; decision making; managing time, energy, and stress; and identifying alternatives and coping strategies. They may also allow students to explore various career and lifestyle choices.

Required Regents Exam: None

SCED: 22207

Course: Personal Development

Credit Hour: 0.5

Prerequisite(s): None

Course Description: Personal Development courses emphasize strengthening self-esteem, recognizing and resisting negative peer pressure, and developing coping skills for dealing with life and career issues and changes (such as family changes). These courses include communication, conflict resolution, practical problem-solving, and decision making. They may also include building resiliency skills and asset building.

Required Regents Exam: None

SCED: 21009

Course: Robotics

Credit Hour: 1

Prerequisite(s): Being part of the Robotics Team

Course Description: Robotics courses help students develop and expand their skills and knowledge of robotics and related scientific and engineering topics. Course topics may include principles of mechanics, electronics, hydraulics, pneumatics, programmable logic controllers. These courses may emphasize the use of engineering principles to design and build robots, construct and connect sensors, and program robots in the programming language.

Required Regents Exam: None

SCED: 22003

Course: Study Skills

Credit Hour: 0.5

Prerequisite(s): None

Course Description: Study Skills courses prepare students for success in high school and/or for postsecondary education. Course topics may vary according to the students involved, but typically include reading improvement skills, such as scanning, note-taking, and outlining; library and research skills; listening and note-taking; vocabulary skills; and test-taking skills. The courses may also include exercises designed to generate systematic, logical thinking and writing.

Required Regents Exam: None

SCED: 22005

Course: Tutorial

Credit Hour: 0.5

Prerequisite(s): None

Course Description: Tutorial courses provide students with the assistance they need to complete their coursework successfully. Students may receive help in one or several subjects.

Required Regents Exam: None

SCED: 22006

Course: Study Hall

Credit Hour: 0.5

Prerequisite(s): None

Course Description: Study Hall courses provide students with the opportunity and time to complete classroom assignments or school projects. Students typically work on their own, without the help of a tutor; however, they are supervised and usually remain in the classroom.

Required Regents Exam: None

SCED: 22151

Course: Career Exploration

Credit Hour: 1

Prerequisite(s): None

Course Description: Career Exploration courses help students identify and evaluate personal goals, priorities, attitudes, and interests with the goal of helping them make informed decisions about their careers. These courses expose students to various sources of information on career and training options and may also assist them in developing job search and employability skills.

Required Regents Exam: None

SCED: 06802

Course: American Sign Language II

Credit Hour: 1

Prerequisite(s): None

Course Description: American Sign Language II courses build upon skills developed in American Sign Language I, extending students' ability to understand and express themselves in American Sign Language and increasing their vocabulary and speed. Typically, students learn how to engage in discourse for informative or social purposes and to comprehend the language when signed slowly.

Required Regents Exam: None

APPENDIX A

Department-Approved Alternative Examinations Acceptable for Meeting Requirements for a Local or Regents Diploma

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.

Approved Alternative Examination

Minimum Acceptable Score

English

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

Global History and Geography

AP World History Examination	3
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United States History and Government

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)Math Examination	E
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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/Trigonometry

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 score, students must complete 1,200 minutes of hands-on laboratory work with satisfactory lab reports.

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

or additional information on the Advanced Placement or SAT exams, go to www.collegeboard.org

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

For additional information on the arts assessment, go to http://www.p12.nysed.gov/ciai/multiple-pathways/docs/ArtsApprovedAssessments2015_03_30.pdf

APPENDIX B

Approved Dual College Credit Courses for SANY Students during 2020-2021 Academic Year

Mohawk Valley Community College

EN 101 - English I - Composition

EN 102 - English II - Ideas and Values in Literature
EN 110 - Oral and Writing Communication
EN 150 - Effective Speech
FA 100 - Creativity in Art
FA 101 - General Drawing
HI 103 - History of Western Civilization: Early Civilization to 1453
HI 104 - History of Western Civilization: 1453 to Present
HI 111 - American History 1492-1850
HI 112 - American History 1850-Present
PS 101 - American National Government
MA 110 - Elementary Statistics
MA 115 - Intermediate Mathematics
CH 111 - Chemistry I
CH 112 - Chemistry II

Onondaga Community College

EN 103 - Fresh/Composition I
EN 104 - Fresh/Composition II
MAT 143 - PreCalculus
MAT 161 - Calculus I
MUS 160 - Intro to Music Theory

SUNY College of Environmental Science and Forestry

EFB - 120 The Global Environment and the Evolution of Human Society
FCH - 496 Intro to Renewable Energy

College Connection. Early OCC and Utica College Bridge Programs are also available for SANY students.