

# EAST SYRACUSE MINOA CENTRAL SCHOOL DISTRICT



## 2024-2025

# HIGH SCHOOL COURSE CATALOG



# Spartan Pride

## Vision

The East Syracuse Minoa Central School District will be an exemplary student-centered learning community whose graduates are future focused and ready to excel in a complex, interconnected, changing world.

## Mission

The ESM Central School District will prepare students for their futures by engaging all learners in inclusive and equitable student-centered learning communities that nurture intellectual, physical, social and emotional well-being. We value and embrace diversity within our schools and through partnerships with families and our community.

## Belief Statements

Our beliefs serve as a foundation for our District and express the core values and principles we embrace.

We believe that:

- Each individual has dignity and worth.
- The capacity to learn for each individual is boundless.
- Curiosity and exploration stimulate innovation and learning.
- High expectations and challenging curriculum lead to greater achievement.
- Effort and perseverance are essential to achieve one's personal best.
- Positive relationships are fundamental to success and growth.
- Collaboration within and among school, families and community partners is essential to meet the needs of each student.
- Acceptance and mutual respect encourages students to take the risks necessary for academic and personal growth.
- Education prepares students to become productive and responsible citizens who contribute to their communities.
- Students need to develop their strengths, confidence and resilience to meet the challenges they will face throughout life.

## District Goals

- Increase student achievement through high expectations supported by a consistent, comprehensive focus on teaching and learning.
- Increase student achievement by building capacity within the system to support and nurture a continuum of learning through the implementation of research-based effective practices.
- Increase student achievement by strengthening parent engagement and community partnerships.

# Class Profile 2024

## **EAST SYRACUSE MINOA COMMUNITY**

Our community is a thriving business and residential community which includes a wide range of socio-economic groups. The 72-square-mile suburban district has a resident population of more than 22,000 and encompasses the Villages of East Syracuse and Minoa. A strong, supportive business presence with Amazon, Bristol Myers-Squibb, CORE Federal Credit Union, Siemens and others provides numerous career opportunities. As part of Central New York's four-season region, the district is minutes from the City of Syracuse's downtown amenities. Location: 2 miles off exit 34A of the NYS Thruway. Follow Route 481 South to exit 5E, Kirkville Road East. Continue one mile to first stop light, turn left to 6400 Fremont Road.

**East Syracuse Minoa Central High School, 6400 Fremont Road, East Syracuse, NY 13057**  
[www.esmschools.org](http://www.esmschools.org)

## **SCHOOL**

The East Syracuse Minoa Central School District is proud of the strong academic program and instruction provided from Pre-Kindergarten through High School. We are one of eleven comprehensive high schools in NYS with 110 teaching staff members. High School classes meet on a 4x4 block schedule on alternate days of the week. Lab sciences meet 3 days out of a 4-day rotation. Classes meet for 75 minutes. ESM has a partnership with Onondaga Community College through OCC Advantage and Spartan Academy, our Early College High School Program. The college bound student competes in a strong academic environment with AP courses and other college preparatory offerings. Our Career Pathways and STEM initiatives focus on college and career readiness and business and community partnerships. ESM is a charter member of the CNY STEM Hub.

**ACCREDITATION:** State Education Department of NY

## **Advanced and Honors Programs**

Advanced Placement Courses: United States History, World History, US Government & Politics, Statistics, Calculus, Art History, Portfolio Prep, Computer Science, Psychology, Music Theory

Honors Courses: English, Social Sciences, Math, Science, Accelerated Courses in 8th grade: Algebra, Living Environment, World Language, Studio in Art

SUNY College Courses: Spanish, Italian, Latin, Statistics, Pre-Calculus, Exploring Statistics, Introduction to Business, Automotive Technology Fundamentals, Introduction to Mass Media Communications, Global Environmental Science, Special Topics in Research, Early Childhood Education, Public Speaking, Freshman Composition & Literature

Syracuse University's Project Advance Program: Accounting, Sociology, Public Affairs, Economics, Forensic Science, Chemistry, and Physics.

CTE Programs: Automotive Technology, Communication and Media Studies, Cosmetology, Construction Technology, Culinary Arts, Early Childhood Education, Finance

Project Lead the Way (RLT): Introduction to Engineering Design (IED)

Television Production Studio: Communications study, Local Daily News productions, Video/File creation

Aviation: Introduction to Aviation and Aerospace, Aviation and Aerospace 2

## **GRADING POLICY**

Traditional 100-point scale with a minimum passing grade of 65% and above. Students are marked on a numerical basis. The passing grade is 65 and above. Regents scores are stand alone assessments and are not calculated into course final averages.

# Class Profile 2024

## GRADUATION REQUIREMENTS

22 units including 4 each in English and Social Studies, 3 each in Math and Science, World Language, Health, Physical Education, and Art or Music and fulfillment of New York State Regent Exam requirements.

## GRADE POINT AVERAGE/CLASS RANK

Determined by averaging credit-bearing courses taken through the junior year including any classes in summer school. GPA weighted for AP, Honors, and College Level courses only. Pass/Fail courses are not included.

## SPARTAN ACADEMY/OCC TRANSCRIPT COURSES/CREDITS

Spartan Academy is an Early College High School Program that provides the opportunity to potentially graduate high school with both a high school diploma and an associate's degree. College courses taken on the college campus are reflected on the transcript under the heading of "SUNY OCC." College courses taken on the high school campus are reflected under the ESM High School heading.

## EXTRA-CURRICULAR ACTIVITIES

At East Syracuse Minoa, extra-curricular activities encompass a wide variety of sports including: baseball, basketball, bowling, cheerleading, cross country, field hockey, football, golf, gymnastics, lacrosse, soccer, softball, tennis, track, volleyball, and wrestling. Other co-curricular and extra-curricular activities include: Accounting Club, Air Force Cyber Security Competition, Art Club, Athletic Strength Club, Book Club, Carpentry Club, Chemistry Club, Clay Club, Cosmetology Club, Covey Training, DECA, Engineering Club, Drone Club, Foreign Language Honor Society, Friends of Rachel Club, Frontiers of Science Club, Future Chefs of America Club, Game Design Club, PRISM Club, Individual World Language Clubs, International Club, Ireland Club, Key Club, Marching Band, Masterminds, Math League, Mock Trial, Model UN, National Honor Society, NYSSMA, NYS Business

Marketing Club, O.A.K., P.A.W.S., PEAK, Science Olympiad, Show Choir, Sources of Strength, Spartan Designers, Spartan Express News Magazine Club, Spartan Garage Auto Tech Club, Spartan Junior High Honor Society, Spartan Manufacturing Club, Spartan Media Club, Spartan Pride, Spartan Stage, Sport Management Club, Stage Band, Stage Crew, Student Council, Student Forum, Three Steps Forward, Winter Guard, Winter Percussion Ensemble, Yearbook, Youth Against Cancer and Youth Development Leadership. There is an array of activities available with flexibility to accommodate new interests as they arise.

**Main Office:** (315) 434-3300  
**Counseling Office:** (315) 434-3306  
**Fax:** (315) 434-3340  
**College Board Code** #331750

## ADMINISTRATION

Dr. Donna J. DeSiato, Superintendent  
Mr. Grenardo Avellino, Deputy Superintendent  
Mr. Edward Michalenko, Executive Principal  
Ms. Naomi Trivison, Associate Principal  
Ms. Kate Liddle, Assistant Principal  
Ms. Ashton Rinella, Assistant Principal  
Ms. Cheryl West, Director of Counseling,  
Youth Development & Leadership  
Ms. Shelly LaMarche, Coordinator of Spartan Academy  
& College & Career Pathways

## COUNSELORS

|                          |  |
|--------------------------|--|
| Ms. Jordan Campo         | <a href="mailto:jcampo@esmschools.org">jcampo@esmschools.org</a>       |
| Ms. Michelle Moisan      | <a href="mailto:mmoisan@esmschools.org">mmoisan@esmschools.org</a>     |
| Ms. Jacqueline Piazza    | <a href="mailto:jpiazza@esmschools.org">jpiazza@esmschools.org</a>     |
| Mr. Christopher Robinson | <a href="mailto:crobinson@esmschools.org">crobinson@esmschools.org</a> |
| Mr. Michael White        | <a href="mailto:mwhite@esmschools.org">mwhite@esmschools.org</a>       |

Members of the National Association of College Admission Counselors, NASSP, and NYSACAC

# Table of Contents

|   | <u>Page(s)</u> |
|---|----------------|
| Service and Information . . . . .                             | 7-9            |
| Career and Technical Education Overview . . . . .             | 10             |
| Seal of Bi-Literacy . . . . .                                 | 11-12          |
| Seal of Civic Readiness . . . . .                             | 13             |
| Graduation Requirements . . . . .                             | 14             |
| Individual Arts Assessment Pathway . . . . .                  | 15             |
| Art . . . . .   | 16-18          |
| Business and Finance . . . . .                                | 19-22          |
| Career and Technical Education Courses and Pathways . . . . . | 23-31          |
| Career and Technical Education at BOCES . . . . .             | 32             |
| Computer Science . . . . .                                    | 33-35          |
| English . . . . .   | 36-41          |
| Mathematics . . . . .   | 42-44          |
| Music . . . . .   | 45-46          |
| Physical Education & Health . . . . .                         | 47-48          |
| Science . . . . .   | 49-52          |
| Social Studies . . . . .                                      | 53-57          |
| World Language . . . . .                                      | 58-61          |
| Course Selection List . . . . .                               | 60-65          |

# Service and Information

## ***Career and Technical Endorsement to Regents Diplomas***

This is an endorsement included on diplomas for students who have completed an approved career and technical education program within the district or one of the OCM BOCES programs.

## ***CDOS Commencement Credential***

This is for students who have entry-level work readiness skills. It can be earned by a student with a diploma or as their only high school exiting credential. *This is not considered a diploma.*

## ***Credit***

Students are awarded one credit toward their diploma for the successful completion of a full year of study in a course. Courses that meet for shorter periods award less than a full credit.

## ***Elective***

Electives are additional courses other than courses that are needed to meet the minimum required for graduation.

## ***Local Diploma***

This is a type of diploma that certifies students have met the commencement level New York State (NYS) learning standards by successfully completing a certain number of units of credit in NYS assessments. Students meet these requirements through courses of study in the areas of English, Social Studies, Math, Science, Physical Education, Art, Health, and Career and Technical Education.

## ***Regents Diploma***

This is a type of diploma that certifies students have met the commencement level of NYS learning standards by successfully completing a certain number of units of credit and five (5) NYS Regents exams. Students meet these requirements through courses of study in the areas of English, Social Studies, Math, Science, Physical Education, Art, Health, and Career and Technical Education.

## ***Regents Diploma with Advanced Designation***

This is a type of diploma that certifies students have completed requirement in addition to those for a Regents Diploma. For this designation students complete two additional credits in a language other than English, OR a five unit sequence. Students will also be required to pass additional Regents examinations in Math and Science.

## ***Regents Diploma with Honors\****

This is a type of diploma certifying that an average of 90 percent or higher was achieved on all Regents examinations required for a Regents diploma. Averages below 90 percent shall not be rounded upward to a 90.

## ***Special Endorsements***

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

## ***Mastery in Math and/or Science:***

A student meets all the requirements for a Regents Diploma with Advanced Designation AND earns a score of 85 or better on three Math Regents examinations and/or three Science Regents examinations.

**Technical Endorsement:** A student meets the requirement for either a local diploma, a Regents diploma or a Regents diploma with Advanced Designation AND successfully completes a Department approved CTE program including the three part technical assessment.

## ***Seal of Biliteracy***

The New York State Seal of Biliteracy (NYSSB) is an award given to high school graduates who have demonstrated a high level of proficiency in English and one or more world languages. The NYSSB encourages the study of languages, affirms the value of diversity in a multilingual society, and provides universities and future employers with additional information about applicants. The Seal of Biliteracy can be pursued by any student attending a school that offers the NYSSB and is proficient in and/or studying English and at least one world language. This includes students who speak a language other than English at home and are studying a world language in high school. (Adapted from NYSED. GOV)

## ***Seal of Civic Readiness***

The Seal of Civic Readiness is a formal recognition that a student has attained a high level of proficiency in terms of civic knowledge, civic skills, civic mindset, and civic experiences. (Adapted from NYSED. GOV)

*\*A Regents Diploma with Advanced Designation Honors can be achieved by meeting both criteria. For more details go to [www.p12.nysed.gov](http://www.p12.nysed.gov)*

# Service and Information

## ***Individual Arts Assessment Pathway (IAAP)***

Students may opt for this 4+1 pathway to obtain a regents diploma by completing a 3 unit sequence in the arts and compiling a portfolio demonstrating their growth over time. This portfolio assessment is the equivalent of one regents exam. Students may apply this pathway towards a regents diploma with advanced designation by completing two additional courses in the arts.

## ***Skills and Achievement Commencement Credentials***

For a student with significant disabilities. Students must complete at least 12 years of school and document skills, strengths, and levels of independence in academics, career development, and foundational skills needed for post-school living, learning and working.

## ***Regents Examinations***

Regents exams are assessments developed by the NYSED and are the foundation of the student assessment process. Assessments are rigorous and include such expectations as writing, science experiments, and demanding mathematical problems applied to real life or work situations.

## ***Sequence***

Students may complete a five-unit sequence in career and technical education (business, family and consumer science, and technology) or the arts (fine or visual arts) to fulfill the additional 2 units of languages other than English requirement for the Regents Diploma with Advanced Designation.

## ***Course Registration***

Each year school counselors meet with students individually and in small groups to review Career Pathways, available courses and provide assistance with making their selections. Students are encouraged to discuss their selections with their parent or guardian. All course selections must be finalized with the student's school counselor to ensure all state and local requirements for graduation are being met and to give students the best counsel to help them reach post-secondary, career and/or higher education goals. The availability of courses is based on minimum student enrollment, and 1st choice electives are not guaranteed.

## ***Transfer Students***

New students entering East Syracuse Minoa High School must register at the Central Registration office located in the main office at the High School. Once registration is completed and the Counseling Office receives records from the previous school, a meeting will be scheduled with the student's counselor to discuss/create their schedule.

## ***Career Pathways***

Career Pathways are clusters of careers that share common interests, skills and strengths. Each Pathway outlines the courses that will help you explore and develop the tools necessary for each career cluster. Since there are many roads to success you are not locked into one Pathway. If you change your mind you can explore another Pathway. Please visit the Counseling Office website for more information.

## ***Dual Enrollment Courses***

Courses described offer the possibility of earning college credit while earning high school credit. Colleges have different rules for accepting credit earned this way. Students should consult with their college of choice to verify they accept such credits.

## ***Advanced Placement Program (AP)***

AP allows students to prepare for advanced status upon entering college by registering for high school courses that prepare them for taking the AP examination while earning high school credit. Students will need to perform at the college freshman level. The awarding of college credit depends on the student's score on the examination and the requirements of the college the student plans to attend.

# Service and Information

## **Honor Roll**

Honor Roll will be determined at the end of each marking period. All 9th -12th grade students are eligible to earn one of two (2) honor roll distinctions.

89.5-100 High Honor Roll  
84.5 - 89.49 Honor Roll

Students who have failed a course or have an incomplete will not be noted on these lists.

## **National Honor Society (NHS)**

The NHS was founded in 1921 and is one of the oldest and most prestigious national organizations for high school students. It recognizes and encourages academic excellence while developing other characteristics essential to the continuation of democracy and the goal of making the world and/or our school a better place. ESM's chapter is called John F. Kennedy. *Please see the ESM Student Handbook for the enrollment/selection process, responsibilities, etc.*

## **NCAA Eligibility Requirements**

After your junior year register for the NCAA Clearinghouse. Go to <https://web3.ncaa.org> to download the guide for the college-bound student athlete. \*Students who are planning on pursuing athletic at the college level are responsible for notifying their coaches and counselors as early as possible.

## **Dropping/Adding Courses**

All course selections must be finalized with the student's school counselor to ensure all state and local requirements for graduation are being met and to give students the best counsel to help them reach post-secondary career and/or higher education goals.

A course may be added in the FIRST FIFTEEN (15) days of the semester.

Students having difficulty in a course can get extra help after school on a regular basis and also may arrange to meet with teachers before school or during study halls.

In order to DROP certain courses, a student must:

- Request the proper form from his/her school counselor.
- This form must be completed and approved by the appropriate teacher, the student's parent/guardian, the school counselor, and the school principal. In some cases a parent conference may be required.
- The student is responsible for returning all books, equipment, and material(s) to the teacher if approved to drop the course.
- School counselors are required to notify a student's potential college(s) when a student drops a course senior year.

A one semester course must be dropped within the FIRST FIFTEEN (15) days of the first marking period of that semester, and a full year course must be dropped by the end of the first marking period.

## **Syracuse University Project Advance (SUPA)**

Syracuse University Project Advance is an educational program that provides high school students with the opportunity to take Syracuse University courses in their own schools during the regularly scheduled school day. There is a tuition cost for enrollment in SUPA courses which varies with the college credits associated with the course.

## **Gaining Credit After Course Failure**

Students who fail a high school course in English, Science, Social Studies, Math, Languages other than English, or Physical Education must successfully complete the course through credit recovery, an authorized summer school or take the same course the following year. Parent conference may be required.

## **Independent Study**

Independent study provides students with an opportunity to pursue an approved course of study not offered in the regular program.

- Registration is limited to juniors and seniors.
- The maximum credit allowed is 0.50 unit per proposal, per semester.
- Credit for independent study is for elective courses only and cannot be used as a substitute for established requirements in the standard program.
- Students will be limited to a minimum of two (2) Carnegie units of independent study in any one academic area.
- Independent study proposals must be made and approved within three (3) weeks of the beginning of the semester in which the independent study will be completed.

# Career and Technical Education Program

| CTE Program                                  | Affiliated CTE Courses   | College Affiliation  | Assessment   |
|--|--|--|--|
| <b>Automotive Technology</b><br>(Integrated) | Career and Financial Management<br>Auto Technology Applications<br>ATC103 Automotive Fundamentals  | SUNY OCC   | Precision  |
| <b>Aviation (Learn to Fly)</b>               | Foundation Classes <ul style="list-style-type: none"> <li>• Intro to Aerospace (Learn to Fly 1)</li> <li>• Aviation 2 (Learn to Fly 2)</li> <li>• Introduction to Engineering &amp; Design</li> <li>• Electricity &amp; Electronics Electives</li> <li>• Aviation Field Experience</li> <li>• OCC Engineering Drawing 1</li> </ul> | (OCC) Onondaga<br>Community College<br>Dutchess Community<br>College<br>Mohawk Valley<br>Community College | Students must pass<br>one or both of the<br>(FAA) Remote Pilot Exam<br>and/or<br>(FAA) Private Knowledge<br>Exam |
| <b>Carpentry</b>                             | Career and Financial Management<br>(Integrated)<br>Construction Technology 1<br>Construction Technology 2  | SUNY College of<br>Technology at Delhi   | Precision<br>Carpentry   |
| <b>Communication and<br/>Media Studies</b>   | Career and Financial Management<br>Multi-Camera Studio Productions<br>SUNY OCC Introduction to<br>Mass Media (EMC101)<br>TV News 1A/1B, 4A/4B  | SUNY OCC   | Precision  |
| <b>Cosmetology</b>                           | Career and Financial Management<br>(Integrated)<br>Cosmetology 1<br>Cosmetology 2  | Bryant and Stratton<br>College   | New York<br>State Licensing  |
| <b>Culinary Arts</b>                         | Career and Financial Management<br>(Integrated)<br>Culinary Arts 1<br>Culinary Arts 2  | Culinary Institute of<br>America   | National Certification of<br>Achievement and<br>Qualters Practical<br>Assessment (ProStart)                      |
| <b>Early Childhood Education</b>             | Career and Financial Management<br>(Integrated)<br>School-Age Psychology<br>SUNY OCC EDU 156/157/185 GETP<br>SUNY OCC EDU 182: Child Growth & Dev.<br>EDU 180 Early Childhood Education:<br>An Introduction  | SUNY OCC   | Precision  |
| <b>Finance</b>                               | Career and Financial Management<br>Banking and Finance<br>Principles of Accounting 1 <b>OR</b><br>SUPA Accounting<br>Spreadsheet Management<br>SUNY OCC BUS 101 Introduction to<br>Business  | SUNY OCC and<br>Syracuse University  | National Occupational<br>Competency Testing<br>Institute (NOCTI)<br>Business Financial<br>Management Test        |

# Earning the New York State Seal of Biliteracy

- A.** Students wishing to receive the New York State (NYS) Seal of Biliteracy must complete all requirements for graduating with a NYS Regents diploma\*; and
- B.** In addition to the above minimum requirement, students wishing to receive a NYS Seal of Biliteracy must earn three (3) points in each of the two (2) areas listed below:

| <i>Criteria for Demonstrating Proficiency in English</i>  | <i>Point Value</i> |
|---|--------------------|
| Score 75 or higher on the NYS Comprehensive English Regents Examination or score 80, or higher on the NYS Regents Examination in English Language Arts (Common Core)*<br>or<br>English Language Learners (ELLs) score 75 or above on two Regents exams other than English, without translation. | 1                  |
| ELLs score at the Commanding level on two modalities on the New York State English as a Second Language Achievement Test (NYSESLAT).  | 1                  |
| Complete all 11th and 12th grade ELA courses with an average of 85 or higher or a comparable score using another scoring system set by the district and approved by the Commissioner.   | 1                  |
| Achieve the following scores on the examinations listed below:<br>-3 or higher on an Advanced Placement (AP) English Language or English Literature examination, or<br>-80 or higher on the Test of English as a Foreign Language (TOEFL).  | 1                  |
| Present a culminating project, scholarly essay or portfolio that meets the criteria for speaking, listening, reading, and writing established by the district's Seal of Biliteracy Committee to a panel of reviewers with proficiency in English.   | 2                  |

| <i>Criteria for Demonstrating Proficiency in a World Language</i>   | <i>Point Value</i> |
|---|--------------------|
| Complete a Checkpoint C level World Language course, with a grade of 85 or higher, or a comparable score using another scoring system set by the district and approved by the Commissioner, for both the coursework and final examination consistent with Checkpoint C standards.   | 1                  |
| Provide transcripts from a school in a foreign country showing at least three years of instruction in the student's home/native language in Grade 8 or beyond, with an equivalent grade average of B or higher.   | 1                  |
| For students enrolled in a bilingual education program, complete all required Home Language Arts (HLA) coursework and the district HLA exam with an 85 or higher, or a comparable score using another scoring system set by the district and approved by the Commissioner.  | 1                  |
| Score at a proficient level on an accredited Checkpoint C World Language assessment (See "Checkpoint C World Language Assessments and Minimum Scores" on the following page.)   | 1                  |
| Present a culminating project, scholarly essay, or portfolio that meets the criteria for speaking, listening, reading, and writing established by the district's Seal of Biliteracy Committee and that is aligned to the NYS Checkpoint C Learning Standards to a panel of reviewers with proficiency in the target language. | 2                  |

Testing accommodations recommended in an individualized education program or section 504 Accommodations Plan must be provided for all State and districtwide assessments administered to students with disabilities, as consistent with State policy. Students with disabilities should also receive these testing accommodations on Checkpoint C World Language Assessments, as permitted.

\* Students in schools with an alternate pathway for graduation approved by the Commissioner will be held to those schools' criteria.

# Earning the New York State Seal of Biliteracy

## Checkpoint C World Language Assessments and Minimum Scores

(based on ACTFL Intermediate High standards)

Completing one or one group of these examinations will yield one point towards the three total points necessary on the criteria point system for demonstrating world language proficiency.

| <u>ASSESSMENT</u>   | <u>MIN. SCORE</u> |
|---|-------------------|
| <b>AP</b> – Advanced Placement Examination  | 4                 |
| <b>IB</b> – International Baccalaureate   | 5                 |
| <b>STAMP4S</b> – Standard Based Measurement of Proficiency  | 6                 |
| <b>DELE</b> – (Diplomas of Spanish as a Foreign Language) –<br>through Cervantes Institute of NYC | B1                |
| <b>AAPPL</b> – The ACTFL Assessment of Performance toward<br>Proficiency in Languages             | I-5               |

|  |  |
|--|--|
| <b>OPI</b> – The ACTFL Oral Proficiency Interview  | Intermediate High  |
| <b>OPIc</b> – The ACTFL Oral Proficiency Interview by Computer   | In this section, students should take exams in as many modalities (speaking, listening, reading and writing) as <b>available</b> to qualify for Checkpoint C credit. |
| <b>WPT/BWT</b> – The ACTFL Writing Proficiency Test/Business Writing Test<br><b>RPT</b> – The ACTFL Reading Proficiency Test |  |
| <b>LPT</b> – The ACTFL Listening Proficiency Test  |  |

|  |                   |
|--|-------------------|
| <b>ALIRA</b> – The ACTFL Latin Interpretive Reading Assessment                           | I-4               |
| <b>SLPI: ASL</b> – American Sign Language Proficiency Interview<br>I-4 Intermediate Plus | Intermediate Plus |

**NOTE: Some exams do not give results until after June. Students and advisors may need to plan accordingly.**

[http://www.nysed.gov/common/nysed/files/criteria\\_for\\_nyssb.pdf](http://www.nysed.gov/common/nysed/files/criteria_for_nyssb.pdf)

# Seal of Civic Readiness

## *New York State Education Department's Seal of Civic Readiness*

The Seal of Civic Readiness is a formal recognition that a student has attained a high level of proficiency in terms of civic knowledge, civic skills, civic mindset, and civic experiences. The Seal of Civic Readiness distinction on a high school transcript and diploma:

- shows the student's understanding of a commitment to participatory government; civic responsibility and civic values;
- demonstrates to universities, colleges, and future employers that the student has completed an action project in civics or social justice; and
- recognizes the value of civic engagement and scholarship.

### *Criteria for the Seal of Civic Readiness*

In order to obtain the Seal of Civic Readiness, a student must complete all requirements for a New York State local or Regents diploma and earn a total of six points with at least two points in Civic Knowledge and at least two points in Civic Participation. Students may also earn points by completing a middle school Capstone project or a high school Capstone project.

| <b>Civic Knowledge</b>                           | <b>Pts.</b> | <b>Civic Participation</b>  | <b>Pts.</b> |
|--|-------------|---|-------------|
| 4 credits of social studies                      | 1           | High School Civics Project (limit two times during gr. 9-12)  | 1.5         |
| Mastery level on Social Studies Regents Exam     | 1.5*        | Service-Learning Project (minimum 25 hours) and reflective civic learning essay/presentation/product                  | 1*          |
| Proficiency level on Social Studies Regents Exam | 1*          | Earned credit in an elective course that promotes civic engagement  | .5*         |
| Advanced social studies course(s)                | .5*         | Middle School Capstone Project (Gr. 7 and 8 are only eligible for this point)   | 1           |
| Research Project                                 | 1           | Extra-curricular participation or work-based learning experience (minimum 40 hours) and an essay/presentation/product | .5*         |
|  |             | Civics Capstone Project   | 4           |

*\*Students may receive these points more than once.*

Testing accommodations recommended in an individualized education program or section 504 Accommodations Plan must be provided for all State and districtwide assessments administered to students with disabilities, as consistent with State policy. \* Students in schools with an alternate pathway for graduation approved by the Commissioner will be held to those schools' criteria.

# Graduation Requirements

| <i>Required Courses</i>     | <i>Regents Diploma</i> | <i>Regents Diploma with Advanced Designation</i> |
|-----------------------------|------------------------|--|
| English                     | 4 credits              | 4 credits  |
| Social Studies              | 4 credits              | 4 credits  |
| Math <sup>2</sup>           | 3 credits              | 3 credits  |
| Science <sup>2 and 3</sup>  | 3 credits              | 3 credits  |
| World Language <sup>1</sup> | 1 credit               | 3 credits  |
| Art/Music                   | 1 credit               | 1 credit   |
| Health                      | ½ credit               | ½ credit   |
| Physical Education          | 2 credits              | 2 credits  |
| Electives                   | 3.5 credits            | 1.5 credits                                      |
| <b>Total</b>                | <b>22 credits</b>      | <b>22 credits</b>                                |

## Required Regents Exams (passing score of 65 and above)

| <i>Regents Diploma</i>   | <i>Regents Diploma with Advanced Designation</i>   |
|--|--|
| 1 English Language Arts Exam   | 1 English Language Arts Exam   |
| 1 Math Exam  | 3 Math Exams<br>(Algebra 1, Geometry, Algebra II)  |
| 2 Social Studies Exams   | 2 Social Studies Exams   |
| 1 Science Exam<br>(Earth Science, Living Environment,<br>Chemistry or Physics)                                   | 2 Science Exams<br>(1 life science and 1 physical science)   |
| 1 additional NYS approved exam/assessment which can include core subject areas and various pathways assessments. | A passing grade on a local LOTE exam after the third year of study is required. Students may substitute 5 units of business, technology, art or music for the 3-unit LOTE requirement. See your counselor for details. |

<sup>1</sup>Successfully completing 2 units of study and passing a locally developed test that is aligned to the Checkpoint A Learning Standards prior to Grade 9 (8 NYCRR §100.2[d][5])

<sup>2</sup>Passing a year-long Grade 8 accelerated program of study and passing a locally developed test that is aligned to the Checkpoint A Learning Standards (8 NYCRR §100.4[d][1-2])

<sup>3</sup>Demonstrated mastery of learning outcomes as set forth in a New York State developed or locally developed syllabus for a given high school course of study in a LOTE after a student has had the opportunity to complete a unit of study in Grades 9-12 (8 NYCRR §100.1[b])

<sup>4</sup>An integrated course in mathematics/science/technology may be used as the third required credit in either mathematics or science when the course is taught by a certified STEM teacher and it meets the commencement level of NYS standards for Math, Science and Technology.

<sup>5</sup>Must pass one course from the Physical Setting (physical science) and one course from the Living Environment (life science). The third may be from either life sciences or physical science.

<sup>6</sup>Must complete the arts, business, family and consumer science, LOTE or technology requirements for this diploma.

# Individual Arts Assessment Pathway (IAAP)

## *A 4+1 Pathway Option to Graduation with a Regents Diploma*

The Individual Arts Assessment Pathway (IAAP) is a new graduation pathway option in which students demonstrate, through a collection of creative works, growth over time that meets the High School II Accomplished Performance Indicators in the New York State Learning Standards for the Arts. The artistic method(s), media, or form(s) students use to meet the appropriate State developed IAAP criteria are based on student artistic and research interests in consultation with their arts teachers. Students pursuing either a Regents Diploma, or a Regents Diploma with Advanced Designation may utilize the IAAP as their pathway assessment. This is the first year this will be offered at East Syracuse Minoa CSD.

### ***What is the benefit to students?***

The IAAP offers high school students a graduation pathway that prepares them for future professional and educational experiences and opportunities in the arts. Increasing student engagement with the arts is a vital step in realizing the goal of artistic literacy enumerated in the NYS Statewide Strategic Plan for the Arts. Additionally, current research demonstrates that engagement with the arts leads to growth in cognitive skills, such as self-efficacy, empathy, and social engagement that are necessary in all areas of work and life. There are many students at ESM actively engaged in the arts and this provides a means of meeting graduation requirements and receiving validation of their artistic accomplishments beyond the intrinsic benefits they already possess.

### ***What are the IAAP requirements?***

Students must complete three units of study in the arts that allow them to demonstrate growth over time. All currently offered courses in visual and media arts and performing arts meet the requirements for the IAAP and offer flexibility for students to choose their path within the main disciplines. Each unit requires submission of portfolio artifacts with increasing complexity and will be kept in a digital portfolio, archived in a google classroom.

### ***What are the next steps?***

Students currently enrolled in foundation arts classes will have the opportunity to enroll in the arts pathway of their choice and begin consulting with their arts teacher about first year portfolio submission ideas. They may opt out at any time, but would be required to fulfill their regents requirements in another way.

If you have questions, you may direct them to Tom Decker the Coordinator of Community Engagement, Data and Fine Arts at 315-434-3348 or [tdecker@esmschools.org](mailto:tdecker@esmschools.org)

### ***How is the IAAP achieved?***

- 3 units of study (or the equivalent) in the Arts
- Locally graded portfolio containing all discipline specific mandatory elements that demonstrates students' attainment of the Learning Standards for the Arts at the HS II Accomplished Level
- 4 passing regents courses/exams in ELA, Math, Social Studies and Science

#### **First Unit of Study** (Foundation/Diploma Credit)

One creative work; working portfolio

#### **Second Unit of Study** (Elective)

Two-three creative works; Evidence of feedback/artistic process; select portfolio

#### **Third Unit of Study** (Elective)

Two-three creative works; Evidence of feedback/artistic process; Final portfolio: collection of 5-6 creative works along with over time measures

# Art

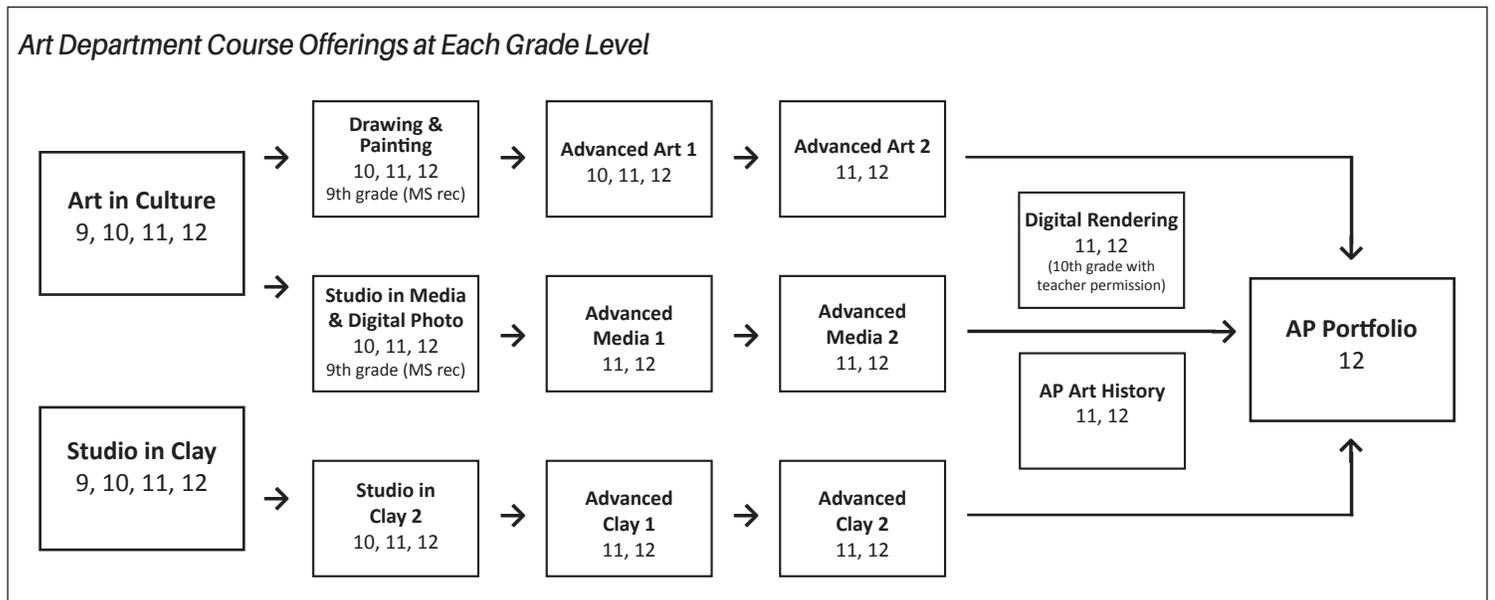
The ESM Art Department offers a variety of courses grouped in three major disciplines: 2-D Design, Drawing and 3-D Design. These categories provide students with three different ways to meet the requirements for Regents credit in Art while developing specialized skills in the areas of graphic design, fine art or ceramics. Five-year sequence students are encouraged to develop a portfolio for the college art program admissions process.

All of the Art Department courses listed fulfill the New York State requirement in the Arts.

TO RECEIVE A 5-UNIT ART SEQUENCE, A STUDENT MUST: Take 5 courses that display progression in the arts (no more than 2 studio classes) culminating in an advanced level course.

## Art Department Disciplines

| 2-D DESIGN   | DRAWING  | 3-D DESIGN   |
|--|--|--|
| Studio in Digital Photography (1 credit)<br><br>Advanced Media Arts (1 credit)<br><br>Digital Rendering (1/2 credit) | Drawing and Painting (1 credit)<br><br>Advanced Art 1 (1 credit)<br><br>Advance Art 2 (1 credit)<br><br>Portfolio Preparation with AP option (1/2 or 1 credit) | Studio in Clay 1 (1 credit)<br><br>Studio in Clay 2 (1 credit)<br><br>Advanced Studio in Clay 1 (1 credit)<br><br>Advanced Studio in Clay 2 (1 credit) |



MS= Middle School

# Art

## Studio in Clay 1

**Credit: 1 unit**

**Grade: 9, 10, 11, 12**

**Prerequisite: None**

This course is designed for the beginner as an introduction to the field of ceramics as art. The course focuses on skills and techniques of ceramics, including hand building and using the potter's wheel. Projects are based on techniques as well as the elements and principles of design. Final assessment will be a portfolio of work created throughout the year. *This course fulfills the graduation requirement in the Arts.*

## Studio in Clay 2

**Credit: 1 unit**

**Grade: 10, 11, 12**

**Prerequisites: Studio in Clay 1 or permission from the instructor**

This course is designed for the returning ceramics student. The goal of the course is to build upon the skills taught in Clay 1. Students work in both functional and sculptural ceramics. This course is for students who are interested in continuing education related to work with clay increasing their depth of knowledge with the material.. A \$20 studio lab fee is required.

## Advanced Studio in Clay 1

**Credit: 1 unit**

**Grade: 11, 12**

**Prerequisites: Studio in Clay 2 or permission from the instructor**

This course is designed for the returning ceramics student who is proficient with the basic skills and techniques Learned in Studio in Clay 1 and 2. Students work in both functional and sculptural ceramics and are encouraged to develop their own ideas through required and independent coursework. A \$20 studio lab fee is required.

## Advanced Studio in Clay 2

**Credit: 1 unit**

**Grade: 12**

**Prerequisites: Successful completion of Advanced Studio in Clay 1 or permission of instructor**

This course is for the student who has successfully completed Studio in Clay 1, Studio in Clay 2 and Advanced Studio in Clay 1. Students will complete a 3-dimensional portfolio for CNY Scholastic Competition, college and/or AP. Final assessment will be a portfolio of work created throughout the year. A \$20 studio lab fee is required.

## Art in Culture

**Credit: 1 unit**

**Grade: 9, 10, 11, 12**

**Prerequisite: None**

From movies and cartoons to cars and sneakers, our favorite cell phone apps to stage designs for world famous musicians, take a look at how art influences our daily lives and what goes into inspiring an entire society. Students will be able to both learn about and gain hands on experience in the ways in which our surroundings enhance our everyday lives. *This course will fulfill the graduation requirement for the Arts.*

## AP Art History

**Credit: 1 Unit**

**Grade: 11, 12**

**Prerequisite: Art in Culture or Studio in Art**

This course follows a chronological format with emphasis on the cultural significance of western and non-western art traditions in architecture, sculpture and painting from cave to contemporary art. Final assessment will be a teacher developed final exam or the AP exam will serve as the final assessment, dependent on the AP option. Passing the comprehensive final in May is required for sequence credit. The awarding of college credit depends upon the student's score on the AP examination and the requirements of the college the student chooses to attend. *There is a cost associated with the AP*

*exam. This course fulfills the graduation requirement in the Arts. \*This course is not offered every year.*

## Studio in Media Arts/ Studio in Digital Photography

**Credit: 1 unit**

**Grade: 9, 10, 11, 12**

**Prerequisites: Art in Culture or Teacher Recommendation only for 9th graders.**

This course elective is designed to provide students with a working knowledge of the elements and principles of Graphic Design and how they can be learned through the computer art medium. Students will use tools, learned skills and techniques in the creation and understanding of artwork. Students will be introduced to Graphic Design and digital photography through the use of drawing, painting, and image editing software (Adobe Creative Suite software). The skills and techniques of Digital Imaging are essential in creating photographic compositions, which are taught using digital cameras/scanners, computers as a Digital Darkroom, industry-standard software and photographic printers. Students will learn how to use available technology to download, develop, and manipulate photographs, exploring Adobe Photoshop's image-editing capabilities. A variety of subject matter and assignments will be explored. Students will have access to digital cameras, but also use their own. Final assessment will be a portfolio of work created throughout the year. *This course fulfills the graduation requirement in the Arts.*



# Art

## Drawing and Painting

**Credit: 1 unit**

**Grade: 9, 10, 11, 12**

**Prerequisite: Studio in Art, Art in Culture or recommendation by eighth grade Art teacher**

Drawing and Painting is a course designed to enhance skills acquired in Art in Culture as well as to explore new areas. The course is important for the serious art student. Students will learn about the art process and focus on the development of their artistic skills while learning a variety of art techniques. Some of the materials that will be utilized include graphite, charcoal, pastel, colored pencils, acrylic paint and watercolor. Final assessment will be a portfolio of work created throughout the year.

## Advanced Art 1

**Credit: 1 unit**

**Grade: 10, 11, 12**

**Prerequisites: Drawing and Painting**

Advanced Art 1 is for students who have completed Drawing and Painting and want more in-depth training in art media and techniques, which are mastered by way of complex design and drawing problems. Students will be involved in ongoing evaluation of their artistic strengths and weaknesses and focus on projects to strengthen their skills in order to develop a comprehensive portfolio. Emphasis is given to the development of art skills and their relationship to careers. Final assessment will be a portfolio of work created throughout the year.

## Advanced Art 2

**Credit: 1 unit**

**Grade: 11, 12**

**Prerequisites: Advanced Art 1**

This course is for students who have completed Advanced Art 1 or have the recommendation of the teacher. It continues the development of individual student strengths while addressing

any weaknesses in the emerging portfolio. Students will begin work on a concentration for AP Studio Art and gain additional skills in artistic literacy through art criticism, art history connections and the professional presentation of one's work. This course is the first year of the 2-year portfolio preparation for college, career, scholarship and AP consideration. Final assessment will be a portfolio of work created throughout the year.

## AP Portfolio Preparation

**Credit: 1/2 or 1 unit**

**Grade: 11, 12**

**Prerequisites: Art Teacher Recommendation**

Each student prepares a professional quality portfolio, suitable for either a job interview or a college application. Included are examples of drawing, figure drawing, painting, and media arts. Students learn to properly display their work and select their best pieces. This course is for the serious student of art; self-direction is important. Students choosing to take the course for one unit of credit also have the option to continue for an additional semester in preparation for the AP Studio in Art examination in May. Final assessment will be a portfolio of work created throughout the year to be evaluated by the instructor and/or the AP exam will serve as the final assessment, dependent on the AP option. The awarding of college credit depends upon the student's score on the examination and the requirements of the college the student chooses to attend. *There is a cost associated with the AP exam.*

## Digital Rendering

**Credit: 1 unit**

**Grade: 10, 11, 12**

**Prerequisites: Preferred Studio in Media Arts or Teacher Recommendation**

This is an advanced level course for students who have taken Media in Arts and/or Drawing and Painting and desire to learn more about digital drawing, painting, digital sculpting, character design and 3D printing, animation and motion graphics.

## Advanced Media Arts 1

**Credit: 1 unit**

**Grade: 10, 11, 12**

**Prerequisite: Successful completion of Studio in Media Arts/ Studio in Digital Photography**

This full year course is a continuation of the Media Arts/Digital Photography program focusing on the application of skills and techniques needed to create professional artwork, communicate ideas, concepts and messages used in the industry. Students will be given an opportunity to work on "real world" job assignments provided by school and community needs. Graphic Design, Digital Illustration, Advanced Digital Photography and Publication Design will be explored through Adobe Creative Suite Software. Students will also develop an understanding of how technology has changed graphic design history and the careers that utilize graphic design. Students will also learn about a variety of printing techniques including traditional darkroom printing, screen printing and large format digital printing. Final assessment will be a portfolio of work created throughout the year.

## Advanced Media Arts 2

**Credit: 1 unit**

**Grade: 11, 12**

**Prerequisite: Advanced Media Arts 1**

Advanced Media Arts 2 is an opportunity for the serious and independent student who looks to gain experience in graphic design, digital photography and motion graphics through independent exploration as well as guided learning experiences. Students will have the chance to express their individual voice and passions as a digital artist through a variety of media. Final assessment will be a portfolio of work created throughout the year.

# Business and Finance

## Accounting and Finance

Accounting  
Finance

## Business and Marketing

Business Management and Administration  
Finance  
Entrepreneurship  
Marketing

### Career Exploration Areas and Courses

Principles of Accounting  
SUPA Accounting  
Student Activity Accounting  
Business/Criminal Law  
SUNY OCC BUS 101: Introduction to Business  
Business Ownership  
Career Exploration Internship  
Career and Financial Management  
Principles of Marketing  
Banking and Finance  
Principles of Business Mgt.:  
Ownership  
Retail  
Banking and Finance Supervisor  
Banking and Finance Manager  
Retail Management I  
Retail Management II  
Spreadsheet Management  
Principles of Accounting

SUPA Accounting  
Student Activity Accounting  
SUNY Business/Criminal Law  
SUNY OCC BUS 101: Introduction to Business  
Business Ownership  
Career and Financial Management  
Web Design  
Principles of Marketing  
Banking and Finance  
Principles of Business Management:  
Ownership  
Retail  
Banking and Finance Supervisor  
Banking and Finance Manager  
Retail Management I  
Retail Management II  
Sports and Entertainment Management I  
Sports and Entertainment Management II  
Spreadsheet Management



# Business and Finance

Business, Finance and Computer Science is a broad and diverse discipline that prepares students for entry-level employment and/or post-secondary education in business, marketing and computer occupations. The sequences in Business and Information Technology provide a variety of ways for students to meet graduation requirements while developing transferable skills and specialized competencies. Student leadership development programs such as DECA, an association of marketing students, are an integral part of the Business, Finance and Computer Science program. To receive a 5-unit concentration, a student must take:

## Principles of Accounting 1

**Credit: 1 unit**

**Grade: 10, 11, 12**

**Prerequisite: None**

Are you serious about Business? Want to be able to do basic bookkeeping for your personal finances? This course is an introduction to accounting-the system of recording and auditing business transactions. Students will learn the accounting cycle and its application to sound accounting practices. The class covers classifying and recording original business transactions, closing entries and completing the accounting cycle, adjusting erroneous entries, compiling accounting data into meaningful financial statements, and the vital role ethics play in the accounting field. This course is a must for ESM Business students, students who will study business in college, anyone who wants to be able to keep books for their personal finances or small business, and for students interested in the accounting field.

## SUPA Accounting (Syracuse University Project Advance, ACC 151) (4 credits)

**Credit: 1 unit**

**Grade: 10, 11, 12**

**Prerequisite: None**

Do you want to learn the Language of Business? Would you like to earn 4 Syracuse University credits while completing high school credits? Accounting is one of the few professions with consistently high job placement rates. SUPA Accounting is a fully accredited college course that will introduce students to Financial Accounting concepts that entrepreneurs, managers, investors, and creditors use in planning, operating and analyzing a business. An emphasis is placed upon the interpretation of financial statements. Concepts are presented at a college level pace. *There is a tuition cost for enrollment in SUPA courses.*

## Student Activity Accounting 1

**Credit: 1 unit**

**Grade: 11, 12**

**Prerequisite: Teacher recommendation**

Student Activity Accounting is a hands-on *independent study* course providing students the opportunity to gain real world business, finance and accounting experience through handling and safeguarding club and activity funds. Students assist the school's Central Treasurer and they will handle money, prepare deposits and check disbursements for over sixty clubs and activities. They update and maintain the Student Activity Fund, learn cash control, policy and procedures for safeguarding the student activity funds, record keeping and cash receipts, and disbursements. Students will also help treasurers learn the procedures of student accounts and answer questions when possible. This hands-on course will provide experiential learning and offer real world applicable skills which will look excellent on your resume!

# Business and Finance

## SUNY OCC BUS 101 Introduction to Business (3 credits)

**Credit: 1/2 unit**  
**Grade: 10, 11, 12**

An introductory course designed to give the student an overview of the impact of business on society. The course is intended to aid the student in obtaining a clear understanding of the way in which contemporary business functions through the interrelationships of management, marketing and finance.

## Business and Criminal Law

**Credit: 1 unit**  
**Grade: 11, 12**  
**Prerequisite: None**

This course defines business law in the broadest possible context. It is whatever laws we all need to know throughout our lives. It includes ethics, how the court system works (including Renounced Criminal and Civil cases), all aspects of Criminal Law (including debates and in-depth study on famous criminal cases and current topics, criminal psychology, and breakdown of all criminal acts), civil Law (Torts), contracts, computer law, The Uniform Commercial Code, bankruptcy, and much more.

## Business Ownership (DECA)

**Credit: 1 unit**  
**Grade: 11, 12**  
**Prerequisites: Principles of Marketing or Teacher recommendation**

This course is an introduction to the concepts of management, which includes influencing people to help accomplish the common goals of an organization or business. Emphasis will involve activities that include strategic planning, organizational structure and design, managing decision making, human resources, motivating team performance, collaborating in groups and teams, successful communication in organizations, and utilizing leadership

skills that involve the effective use of a company's diverse resources. *Membership in DECA is required.*

## Career and Financial Management

**Credit: 1/2 unit**  
**Grade: 9, 10, 11, 12**  
**Prerequisite: None**

This course is designed to provide students with information and experience that will help them analyze their aptitudes, set realistic goals and make intelligent career choices. In addition, this course emphasizes economic decisions related to financial management. Students will study a range of financial alternatives and explore basic decisions necessary to become informed employees, consumers and citizens. Topics include; writing resumes and cover letters, developing interviewing skills, banking, budgeting, savings, credit, taxes, investing, purchasing, and insurance. Students will develop financial literacy skills that will enable them to become financially responsible individuals.

## Principles of Marketing

**Credit: 1 unit**  
**Grade: 10, 11, 12**  
**Prerequisite: None**

Gain the skills necessary to make your purchasing decisions and to succeed in getting the job of your dreams. This class is designed to prepare you with an understanding of a career in marketing and business fields. You will have the opportunity to work with our community on real applied projects centered on basic marketing functions (promotion, buying, selling, research, management, etc.). Membership in DECA as a co-curricular activity is strongly advised.

## Banking and Finance

**Credit: 1 unit**  
**Grade: 10, 11, 12**  
**Prerequisite: Teacher recommendation**

The Banking and Finance course emphasizes the role of financial instruments, financial markets and financial institutions, as well as the function of the Federal Reserve System, in the management of money in today's economy. Topics also include Savings, Investments, Stock Markets, proper use of Credit, and Consumer Protection. The class provides the opportunity to intern as a customer services teller at the CORE Spartan Branch, a student run branch of the CORE Federal Credit Union at ESM High School.

## Principles of Business Management - Ownership

**Credit: 1 unit**  
**Grade: 11, 12**  
**Prerequisite: Business Ownership**

This course advances concepts of management taught in Business Ownership. Students will enhance and master college level business and entrepreneur skills. The course allows students to develop professional skills that will make them more successful in life and/or in their continued education in a project based hands on format.

## Principles of Business Management - Retail

**Credit: 1 unit**  
**Grade: 11, 12**  
**Prerequisite: Retail Management 1 and Teacher recommendation**

This course allows students working at the Spartan Mart the ability to be promoted to manager. Supervisor, product ordering, inventory controls, and scheduling are necessary management skills that students will be exposed to in this course.

# Business and Finance

## Principles of Business Management - Banking and Finance Supervisor

**Credit: 1 unit**

**Grade: 11, 12**

**Prerequisites: Banking and Finance and Teacher recommendation**

If you are interested in Finance and Banking Management this class allows for exceptional Banking and Finance Students to supervise, schedule, assist, and teach their peers in a supervisory role.

## Principles of Business Management - Banking and Finance Manager

**Credit: 1 unit**

**Grade: 11, 12**

**Prerequisites: Recommendation of Supervisor of Credit Union and Teacher recommendation**

Spartan Branch Managers will oversee the entire Spartan Branch Program. Students are responsible for management, advertising, restructuring and developing the Spartan Branch employees and supervisors.

## Retail Management I

**Credit: 1/2 unit**

**Grade: 11, 12**

**Prerequisite: None**

This course introduces students to retail in an actual school store environment as employees of the Spartan Mart. Skills acquired include cash register, stock, inventory, customer service. Students should be part of DECA.

## Retail Management II

**Credit: 1/2 unit**

**Grade: 11, 12**

**Prerequisites: Retail Management 1**

This course explores the retail industry from the viewpoint of both the business and the consumer. The students learn how to create dynamic displays and retailing prepares students for a future as an employee, manager, or entrepreneur in the field of retailing. Students will demonstrate critical-thinking skills using decision making models, case studies, various technologies and business scenarios.

## Sport and Entertainment Management I

**Credit: 1/2 unit**

**Grade: 10, 11, 12**

**Prerequisite: None**

Interested in the sports and entertainment industries? This is the class for you! The business of sport and entertainment has become a dynamic growth industry with an annual valuation of over \$400 billion in the United States. Sports and entertainment are big business in our current society. If you aspire to combine a passion for sports and entertainment with a well-developed understanding of business, then sports and entertainment management is ideal for you. The prime focus of sports and entertainment management is to develop a fundamental knowledge of business concepts that are taught through the sports and entertainment industry. Projects with local professional sports teams will provide real life experiences in management, marketing, advertising, and sales.

## Sport and Entertainment Management II

**Credit: 1/2 unit**

**Grade: 10, 11, 12**

**Prerequisite: Sport and Entertainment Management I**

Do you dream of representing the next great sports superstar? Do you want to run a major music festival or sporting event? Would you like a future career in the business world of sports and entertainment management? If so, this course is for you. You will learn about the history of sports and entertainment and its importance and role in our society today. The basic principles of management will be taught through this course: management strategies, human resources management, leadership, financial management, marketing and public relations, with emphasis on event management, customer relations, sales management, and managing change. Career opportunities and development in today's growing sports and entertainment field will be explored. Sports and entertainment management is a growing sector in the global economy and the opportunity for success is limited only by your imagination.

## Spreadsheet Management

**Credit: 1/2 unit**

**Grade: 10, 11, 12**

**Prerequisite: None**

This course is for everyone! In here you will learn Microsoft Excel 2019 and its applications. You will develop and design professional spreadsheets as well as prepare for Microsoft Office Specialist (MOS) 2019 Certification that is globally recognized. This resume and college application enhancement is great for your future. You will learn to control and manipulate budgets, prepare for savings and retirement, administer and graph surveys and more! *There is a cost to the certification exam of approximately \$90.*

# Career and Technical Education

## ***Career and Technical Education/Technology***

From the Career and Technical Education course choices listed on the following pages to a total or minimum of five (5) units. The concentration choices are in the following areas:

- Automotive Technology\*
- Aviation
- Communications
- Construction Technology\*
- Cosmetology\*
- Culinary Arts\*
- Early Childhood Education\*
- Pre-Engineering

*\* Career and Financial Management is integrated into the CTE Program Curriculum*

*\*Students may receive Math, Science and/or English credits in programs that have approved integration from the state.*

## ***Technology Education***

To receive a 5-unit sequence, a student must take:

- Career and Financial Management (integrated or 1/2 unit) AND
- One unit in Foundation
- One system course
- Plus sufficient additional units

Foundation choices include:

- Design and Drawing for Production/Intro to Engineering Design (PLTW) (1 unit)
- Electricity/Electronics (1/2 unit)

Systems Choices include:

- Production Systems (1/2 unit)
- Residential Systems (1/2 unit)
- Introduction to Aviation and Aerospace (1 unit)
- Aviation and Aerospace 2 (1 unit)
- OCC Engineering Draw (1 unit)

Plus three additional units from the Technology course choices listed on the following pages to total a minimum of five (5) units, plus sufficient additional units.

To receive a CTE certification on your diploma you must complete the following:

1. Career and Financial Management (integrated in some programs)
2. Industry Assessment (written practical and project)
3. Employability Profile
4. Internship/work experience

***Attendance is required to obtain full credit***

# Career and Technical Education

## Career Pathway: Automotive Technology

### Introduction to Automotive Technology

**Credit: 1/2 unit**

**Grade: 10, 11, 12**

**Prerequisite: None**

This course is perfect for any student that owns or plans to own their own car. With a focus on preventative maintenance, course work includes: basic engine theory, the “how-to-guide” for buying a car, oil changes, transmission service, tire change and balancing, tune-ups, brakes, and interior/exterior maintenance. This class is a must for the first-time car buyer/owner that wants to have the skills to maintain their own car. There will be a final exam worth 25% of marking period 2. This course fulfills the requirement for advancement into Automotive Technology Fundamentals and Automotive Technology Applications.

### SUNY OCC ATC 103 Automotive Technology Fundamentals

**Credit: 2 units**

**Grade: 11, 12**

This course provides a foundation for students entering the automotive service field. It prepares the student with shop and tool safety, basic automotive maintenance procedures and pre-delivery inspection procedures. The internal combustion engine and related components are introduced in the course. This course gives students the technical knowledge and skills necessary to enter the automotive service industry and is fifty percent hands-on experience. Students are exposed to live work, as well as troubleshooting laboratory vehicles with instructor-set faults. Topics include general information and maintenance, diesel and gasoline engine theory, engine performance, tune-up, emission controls, fuel system, electrical systems, drive train, suspension and steering, and brakes. Students help in the complete restoration of a classic car. There will be a final exam worth 22.5% of marking period 4. This course is scheduled to meet one block every day. Students have the option to earn four (4) credits through OCC.

### Automotive Technology Applications

**Credit: 2 units**

**Grade: 12**

**Prerequisite: Automotive Technology Fundamentals.**

This course affords students the opportunity for training in the high-tech areas of automotive computer electronics. In-depth theory, testing, and diagnostic procedures help students develop skills in the areas of computerized engine controls, electronic fuel delivery systems, emission controls, charging systems, and computerized chassis diagnostics. Students who complete this course gain the knowledge required to achieve a successful career in the highly competitive automotive industry. Students completely restore a classic or antique vehicle. The work includes engine and transmission rebuilding, interior refinishing, bodywork, repainting, electrical wiring, and troubleshooting. Students who complete this course have a solid foundation for a multitude of careers in the automotive mechanic and restoration fields. There will be a final exam.



# Career and Technical Education

## Career Pathway: Aviation

### Introduction to Aviation & Aerospace

**Credit: 1 unit**

**Grade: 9, 10, 11, 12**

**Prerequisite: None**

The Introduction to Aviation and Aerospace course will provide the foundation for more advanced exploration in areas of flying, aerospace engineering and unmanned aircraft systems. Students will learn about the engineering process, problem solving, and the innovations of the technological developments that have made today's aviation and aerospace industries possible. Students will also learn about the wide variety of exciting and rewarding careers available to them in the fields. This course will inspire students to consider aviation and aerospace careers while laying the foundation for continued study in future grades.

### Aviation & Aerospace 1

**Credit: 1 unit**

**Grade: 9, 10, 11, 12**

**Prerequisite: None**

This course will introduce students to basic aircraft and unmanned aerial systems, structures and their major components, principles of flight and the fundamental physical law affecting flight. This course will also introduce the main systems found on larger and smaller airplanes and unmanned aerial systems.

### Aviation & Aerospace 2

**Credit: 1 unit**

**Grade: 10, 11, 12**

**Prerequisite: Introduction to Aviation is recommended**

This course is foundational for both manned and unmanned aviation and will prepare students to take either of two Federal Administration tests: the Private Pilot Knowledge Test or the Part 107 Remote Pilot Knowledge Test. Topics include: pre-flight procedures, airspace, radio communications, aviation phraseology, regulations, airport operations, aviation safety, weather, cockpit management and emergency procedures. Students will work on aerial robotic design challenges that will apply their knowledge and skills from Introduction to Aviation and other Engineering classes offered at ESM. *There is a fee associated with the exam.*



# Career and Technical Education

## Career Pathway: Communications

### Multi-Camera Studio Productions

*Credit: 1/2 unit*

*Grade: 9, 10, 11, 12*

*Prerequisite: None*

Come use a state of the art, High-Definition television studio to make high quality video productions. Use your creativity on the 27" iMacs to make news-stories or excel in front of the camera. This class will lay the foundation for your audio and video successes.

### Movie Production and New Media

*Credit: 1/2 unit*

*Grade: 9, 10, 11, 12*

*Prerequisite: None*

Learn how to make movies fit for YOUTUBE. Better yet, show off your creations at the CNY High School Film Festival run by ESM students. Your movie could be shown in a real movie theater. Students will watch and discuss short films as well as learn to light, and shoot movies.

### SUNY OCC EMC 101 Introduction to Mass Media Communications (3 credits)

*Credit: 1/2 unit*

*Grade: 11, 12*

*Prerequisite: Students must be or have been enrolled in an additional Communications Program class or by teacher recommendation.*

This course presents an overview of mass media as public communication and traces the histories and technological developments of print, film, radio, television, the Internet and emerging technologies. Topics covered include journalism, media management and business practices, advertising and commerce, social media, ethics, laws and regulations, and global media, with

special emphasis on the role of mass media in culture and society.

### Film History

*Credit: 1/2 unit*

*Grade: 9, 10, 11, 12*

*Prerequisite: None*

"To infinity and beyond". This course looks at film history of the last 120 years through the lens of the 1990's. Students will learn the background of what went in to making the movie. Outside the class, the students will complete a project on a great movie of the 1990s.

### Television History

*Credit: 1/2 unit*

*Grade: 9, 10, 11, 12*

*Prerequisite: None*

From I Love Lucy to Modern Family, you will see where television started and how it evolved. In this course we will watch classic television shows. You will learn how reality television took off and how news coverage changed with CNN. Outside of class, students will be required to watch television shows for comparison. A library card or Netflix will come in handy.

### TV News 1 A & B

*Credit: 1/2 unit*

*Grade: 9, 10, 11, 12*

*Prerequisite: None*

Students will learn how to use and properly care for all the TV production equipment. A focus will be on vocabulary used in the production of The Morning Show, as well as studio etiquette, standard industry practices, and collaboration. Learning to take direction, practicing skills, meeting deadlines and self-assessment are all emphasized. Students will choose between being on-air talent and production crew. This course will focus on reflective leadership. Students will continue refining their leadership and technical skills, while self-assessing and reflecting through written reflections using technology to

mentor others' leadership development. Students will continue to work on their air presence by working on their public speaking skills through various modes of presentation. Students in TV News 4B have an Integrated Public Speaking section included. A student must complete Career and Financial Management (CFM) to obtain the CTE certification.

### TV News 2 A & B

*Credit: 1/2 unit*

*Grade: 10, 11, 12*

*Prerequisite: TV News 1*

Students will learn how to use and properly care for all the TV production equipment. A focus will be on vocabulary used in the production of The Morning Show, as well as studio etiquette, standard industry practices, and collaboration. Learning to take direction, practicing skills, meeting deadlines and self-assessment are all emphasized. Students will choose between being on-air talent and production crew.

### TV News 3 A & B

*Credit: 1/2 unit*

*Grade: 11, 12*

*Prerequisites: TV News 1, 2*

Students will continue to develop and practice skills learned in TV News 1A and 1B, as well as learn the other side of production from their previous choice. It is expected students will act as mentors to students in TV News 1A and 1B.

### TV News 4 A & B

*Credit: 1/2 unit*

*Grade: 12*

*Prerequisites: TV News 1, 2, 3*

Students will continue to develop and practice skills learned in TV News 1A and 1B, as well as learn the other side of production from their previous choice. It is expected students will act as mentors to students in TV News 1A and 1B.

# Career and Technical Education

## Career Pathway: Construction Technology

### Residential Systems

**Credit: 1/2 unit**

**Grade: 9, 10, 11, 12**

**Prerequisite: None**

This class is useful to anyone who may someday build, remodel, restore, or add an addition to their home. This class is also highly recommended for students interested in the ESM Construction program and/or a career in the building trades. Topics include framing, sheetrock repair, electricity, blueprints, and building codes.

### Production Systems

**Credit: 1/2 unit**

**Grade: 9, 10, 11, 12**

**Prerequisite: None**

The Production Systems class is designed to give students hands-on experience in designing, researching, developing, and producing a range of possible products in a woodworking laboratory environment. Safety and desirable work practices are stressed throughout the course. This class is useful to anyone interested in the manufacturing industries, and especially useful for anyone considering carpentry.

### Construction Technology 1

**Credit: 2 or 3 units**

**(Based on student schedule)**

**Grade: 11, 12**

**Prerequisite: None**

This course is for all juniors and seniors, male and female at ESM who may be interested in a career in construction or would like to improve their own home one day. Along with the gratification of building with their own hands, the students learn the following: framing, roofing, installing windows and doors, siding, insulation, sheetrock, taping, trim work, cabinets, interior doors, hardwood flooring, tile, and painting, as well as other fundamentals like measurements, hand tools, power tools, safety equipment, estimating, lumber sizes, and more. The students also have the opportunity to gain a free 10 hour OSHA Safety Certification which is good for life.

### Construction Technology 2

**Credit: 2 or 3 units**

**(Based on student schedule)**

**Grade: 12**

**Prerequisite: Construction Technology 1**

This course is a continuation of the Construction Technology 1 curriculum. Second year students will take on more responsibilities that include leadership roles and are expected to handle more important jobs with more independence while completing those jobs in a safe and timely manner. Students will be assessed with the Precision test for Carpentry.

**Articulation agreements: (final grade of 80 or better)** Students must have at least 5 credits from Construction to earn a CTE endorsement on the diploma and also gain college credit from SUNY Delhi.



# Career and Technical Education

## Career Pathway: Cosmetology Arts

### Cosmetology 1

**Credit: 3 units**

**Grade: 11, 12**

**Prerequisite: None**

Students are responsible for purchasing a student kit (approximately \$150). A two-year program, Cosmetology is the enhancement of natural beauty by artificial means. This includes the use of cosmetics, facials, manicures, hair shaping and barbering, coloring, permanent waving and straightening, shampooing, and styling for men and women. To become a cosmetologist in New York State, the student must have 1,000 hours of instruction and pass the New York State licensing examination. Course content includes professional ethics and work attitudes, hygiene, bacteriology, sterilization and sanitation, conditioning and corrective hair treatment, manicures and pedicures, permanent waving, tinting and lightening, hairstyling and shaping, air waving and thermo curling, hair straightening and removal, facial and make-up, wig and wiglets, shop management, and curl reconstruction.

### Cosmetology 2

**Credit: 3 units**

**Grade: 12**

**Prerequisite: Cosmetology 1**

This course is a continuation of the Cosmetology 1 curriculum



# Career and Technical Education

## Career Pathway: Culinary Arts

### Culinary Arts 1

**Credit: 3 units**

**Grade: 11, 12**

This two-year program provides students with lifetime job skills through appropriate hands-on experiences and the theories necessary to establish themselves in the restaurant industry. The Culinary Arts 1 course consists of one unit of Theory (classroom instruction) and two units of lab (food preparation).

### Culinary Arts 2

**Credit: 3 units**

**Grade: 12**

**Prerequisite: Culinary Arts 1**

The Culinary Arts 2 course consists of two units of lab (hands-on) experience at an advanced level. Articulation agreements are in place with several culinary schools across the country turning high school credits into college credits. The National Restaurant Association also acknowledges student work and can result in scholarship money for college. Students who enroll in Culinary Arts 2 also receive a 1/2 credit in Career and Financial Management.

### Food and Nutrition

**Credit: 1/2 unit**

**Grade: 9, 10, 11, 12**

**Prerequisite: None**

The core course content comprises units in proper kitchen procedures, meal management, food labeling, meal service, basic nutrition and fundamentals in baking and food preparation. Students also explore careers in food and nutrition fields. A serious desire to apply new techniques and develop team management skills is advisable. There will be a comprehensive final exam. This course is a prerequisite for a Culinary Arts sequence.



# Career and Technical Education

## Career Pathway: Early Childhood Education

### Child Development and Psychology

*Credit: 1/2 unit*

*Grade: 9, 10, 11, 12*

*Prerequisite: None*

This course is recommended for students entering the Early Childhood Education Program. Topics covered are pregnancy, fetal development, the birth process, preventing birth defects, and caring for a newborn. Parenting skills, teen pregnancy, and child abuse are discussed. The physical, emotional, social, and intellectual development from birth to age three is emphasized. Students will create hands-on projects/toys for infants and young children, observe and interact with guest babies and preschool children. There will be a comprehensive final exam.

### School-Age Psychology

*Credit: 1/2 unit*

*Grade: 9, 10, 11, 12*

*Prerequisite: None*

This course is recommended for students entering the Early Childhood Education Program. This course provides an in-depth study of children from age four through adolescence. All areas of development of the school-age child are explored. Topics of study include: psychological theories, current issues as well as intellectual, physical, social, emotional, and moral development. Strategies and skills for working with this age group are discussed and applied to prepare students for the future work with children. There will be a final project. Students will have an opportunity to interact with school-aged children.

### First Year of Early Childhood Program Includes the courses listed below:

#### SUNY OCC EDU 156/157/185: Early Childhood 1

*Credit: 1.5 units*

*College Credits: 3*

*Grade: 10, 11, 12*

*This course offered in the Fall*

This half year course focuses on developmentally appropriate, evidence based approaches and positive guidance strategies for supporting the development of each child. An emphasis will be on supportive interactions and environments. The impact of family, culture, language and ability will also be explored. The process of designing developmentally appropriate learning environments for young children will also be explored. Students will spend mornings assisting in one of the ESM Elementary Schools.

#### SUNY OCC EDU 182: Child Growth and Development

*Credit: 2 units*

*College Credits: 3*

*Grade: 10, 11, 12*

*Prerequisite: SUNY OCC EDU 156/157/185*

*This course offered in the Spring*

This is a specialized half-year course in child development which studies the emotional, social, cognitive and physical development from the prenatal period to pre-adolescence. Students will use observation and assessment techniques to build an understanding of growth and development. Multiple influences on child

development and learning, including the sociocultural context of development, will be explored. Students will spend mornings assisting in one of the ESM Elementary Schools. There will be a final exam and portfolio.

### Second Year of Early Childhood Program Includes the course listed below:

#### SUNY OCC EDU 180: Early Childhood Education: An Introduction

*Credit: 3 units*

*College Credits: 3*

*Grade: 11, 12*

*Prerequisites: SUNY OCC EDU 156/157/185, SUNY OCC EDU 182*

This course is designed to introduce prospective early childhood (Birth-2) and childhood (1-6) education teachers to the historical, philosophical and cultural approaches to the study of early childhood education. Students will examine current issues and challenges and begin development of their professional education skills and beliefs. A field component will be required. Students will spend mornings assisting in one of the Park Hill classrooms.

# Career and Technical Education

## Career Pathway: Pre-engineering

### Introduction to Electricity and Electronics

**Credit: 1/2 unit**

**Grade: 9, 10, 11, 12**

**Prerequisite: None**

This is an introductory course in the areas of AC and DC electricity. Students receive a foundation in electrical principles, circuitry and components. Additional topics include equipment use, bread boarding, multi-meter use and the students will build four types of circuits. This course gives students hands-on experience working with electrical schematics and circuitry. There will be a final exam.

### Design and Drawing for Production/Intro to Engineering Design (DDP/IED)

**Credit: 1 unit**

**Grade: 9, 10, 11, 12**

**Prerequisite: None**

This "Project Lead the Way" course is a foundation course in the field of engineering. Students use 3D solid modeling design software to help them document their work and communicate solutions to peers and members of the professional community. The major focus of the IED course is to expose students to the design process, research and analysis, teamwork, communications methods, global and human impacts, engineering standards and technical documentation. *This course fulfills the graduation requirement in the Arts.*

### SUNY OCC MET 161 Engineering Drawing 1

**Credit: 1 unit**

**Grade: 10, 11, 12**

**Prerequisite: Design and Drawing for Production**

The first half of the course is devoted to mechanical drafting. Specific areas covered in this segment are orthographic projection, dimensioning techniques, fractional and decimal systems, and auxiliary and sectional views. The second half of the course focuses on residential architectural drafting. Students are familiarized with foundations and floor plans, architectural dimensioning techniques, elevations, 3-D representation of buildings, and structural sections. The number of credits awarded is based on class attendance.



# Career and Technical Education at BOCES

## Health Careers

**Career & Technical Education (CTE) and New Vision classes** at BOCES education campuses are designed for students who are on a college track or planning an immediate entry into the workforce. Students spend a half day at ESM and the other half of the day in the BOCES program. Availability of course offerings are subject to change based on BOCES enrollment criteria. BOCES programs are only available to Juniors and Seniors.

Courses offered:

- Automotive Collision Technology
- Health Occupations
- Laboratory Technology
- Physical Therapy
- Welding
- Heavy Equipment Repair, Operation & Diesel Technology
- Firefighting
- EMT

BOCES Year 2 classes meet in the morning from 8:45 am to 11:30 am, Year 1 classes meet in the afternoon from 12:15 pm to 3:00 pm. Transportation is provided.

OCM BOCES welcomes visits from parents of students who are interested in this type of program. A maximum of three (3) units of credit are granted for Career and Technical classes at BOCES each year.

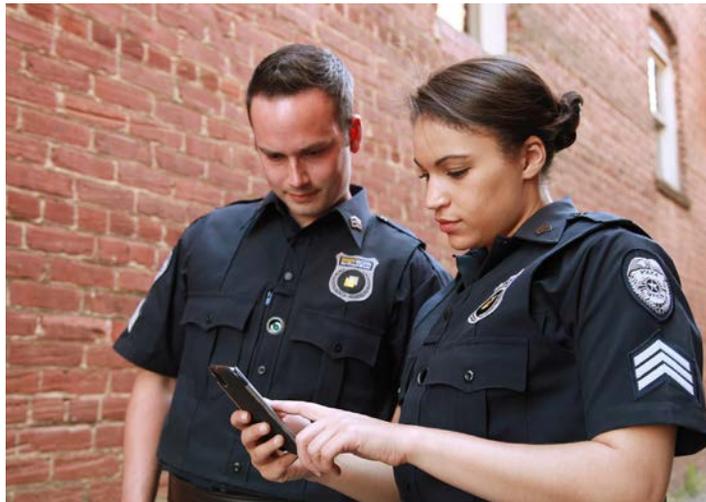


## BOCES New Visions Program

BOCES offers a daily 5-unit program for seniors interested in the fields listed below. Students in the “New Visions” program are awarded 5 units of credit upon successful completion of the courses. English and Social Studies courses are taken on location as part of the program. Students fulfill the physical education requirement at the high school.

Courses offered:

- Medical Professions
- Criminal Justice Professions
- Engineering Professions



# Computer Science

## Programming Sequence

### Year 1

AP CS Principals  
(1 credit)

### Year 2

Python 1  
(1/2 credit)

Python 2  
(1/2 credit)

### Year 3

C++ 1  
(1/2 credit)

C++ 2  
(1/2 credit)

### Year 4

AP-CS-A  
(Java: 1 credit)

### Year 1

Python 1  
(1/2 credit)

Python 2  
(1/2 credit)

### Year 2

C++ 2  
(1/2 credit)

C++ 2  
(1/2 credit)

### Year 3

AP-CS-A  
(Java: 1 credit)

### Electives

#### Grade 9, 10

IT Essentials  
(1/2 credit)

#### Grade 10, 11, 12

Cybersecurity 1  
(1/2 credit)

#### Grade 9, 10, 11, 12

Game Design 1  
(1/2 credit)

# Computer Science

## AP Computer Science Principles (AP CSP)

**Credit: 1 unit**

**Grade: 10, 11, 12**

**Prerequisites: Algebra I**

AP Computer Science Principles (AP CSP) is a full-year rigorous course that introduces students to foundational concepts of computer science and explores the impact computing and technology have on our society. The course covers a broad range of foundational topics including: programming, algorithms, the Internet, big data, digital privacy and security, and the societal impacts of computing. Students are prepared for the AP CSP exam in May. *There is a cost associated with the AP exam.*

## AP Computer Science A

**Credit: 1 unit**

**Grade: 11, 12**

**Prerequisites: Computer Programming 1 and 2**

AP Computer Science A is for students who are serious about programming. Fundamental topics in this course include the design of solutions to problems, the use of data structures to organize large sets of data, the development and implementation of algorithms to process data and discover new information, the analysis of potential solutions, and the ethical and social implications of computing systems. The course emphasizes object-oriented programming and design using the Java programming language. The course will prepare students for the end of course AP CSA exam. *There is a cost associated with the AP exam.*

## Cyber Security

**Credit: 1/2 unit**

**Grade: 10, 11, 12**

**Prerequisite: Completion of IT Essentials or a Programming Class**

Designed for students experienced in computer science fundamentals, this comprehensive exploration introduces digital forensics, malware analysis, penetration testing tools, and the power of Linux in cybersecurity. By the course's end, you'll emerge with a robust understanding of cybersecurity principles, a portfolio of machine attacks and defenses, knowledge of real-world ethical hacking tools, and will be poised to navigate and defend the ever-evolving digital landscape.

## Computer Programming 1

**Credit: 1/2 unit**

**Grade: 10, 11, 12**

**Prerequisites: Successful completion of Geometry Regents and teacher recommendation.**

The 1/2 unit course is an introduction to computer programming using the C++ computer language. Topics include a history of computers and computer architecture, variables and constants, math operations, decision-making, if/else statements, loops, and functions. Students will take a final exam at the end of the semester. This course is highly recommended for students interested in careers in computer science, business, engineering or math.

## Computer Programming 2

**Credit: 1/2 unit**

**Grade: 10, 11, 12**

**Prerequisite: Computer Programming 1**

This 1/2 unit course is a continuation of Computer Programming 1 using the C++ computer language. Topics include library functions, files, arrays, searching and sorting, structures, and pointers. Students will complete a comprehensive Final Project at the end of the semester. The course is highly recommended for students interested in careers in computer science, engineering, business or math.

## Game Design

**Credit: 1/2 unit**

**Grade: 9, 10, 11, 12**

**Prerequisite: Completion of Algebra I. Strong math skills recommended.**

Embark on a hands-on journey to create your own video games using GameMaker Studio and the GameMaker Language (GML). This comprehensive program not only teaches programming fundamentals but also delves into the art and science of crafting engaging and interactive game experiences. Gain practical experience in coding, problem-solving, and design as you learn to create game objects, characters, and environments. Through a blend of visual and GML coding, turn your creative ideas into playable video games.

# Computer Science

## IT Essentials (Cisco)

*Credit: 1/2 unit*

*Grade: 9, 10, 11, 12*

*Prerequisite: Enrolled in Algebra I (or completion of Algebra I)*

In IT Essentials will learn to build and troubleshoot computer systems from the ground up. Through hands-on experiences, students assemble computer systems, install operating systems, and navigate advanced networking fundamentals. Upon course completion, students emerge with the ability to describe internal computer components, troubleshoot issues, and possess a strong foundational grasp of computer technology, networking, and security. This course serves as a practical entry point into the dynamic realms of IT and technology.

## Python 1: The Art of Coding with Python

*Credit: 1/2 unit*

*Grade: 9, 10, 11, 12*

*Prerequisite: Enrolled in Algebra I (or completion of Algebra I)*

Step into the world of programming through the lens of Python in this beginner-friendly course. Explore the core concepts of coding, including variables, loops, and conditionals, and discover how to use them to craft elegant and functional programs. By the end of this course, you'll have not only grasped the fundamentals of Python but also created your own interactive projects that showcase your newfound coding skills.

## Python 2: From Scripts to Applications

*Credit: 1/2 unit*

*Grade: 9, 10, 11, 12*

*Prerequisite: Completion of Python I.*

Elevate your Python prowess as you progress from novice to application developer in this intermediate-level course. Venture into advanced programming techniques, modular design, and debugging strategies. With hands-on experience in building practical applications, you'll be well-prepared to tackle real-world challenges using Python, from automating tasks to developing interactive software and examine python's role in AI and Machine learning.

## Web Design

*Credit: 1/2 unit*

*Grade: 10, 11, 12*

*Prerequisite: None*

Have fun designing websites by coding using html, CSS, and Javas Script programming languages. Learn the dos and dont's of web page design by evaluating existing web pages. Let your creative side show with the designing software Photoshop. Combine your coding and design skills to create professional websites. You will leave this course with the ability to code and design a website.



# English

The high school English Department has identified the following skills as necessary for all who graduate from ESM. With these skills in mind, we have redesigned the curriculum in several of our course offerings using current best practices to ensure that all students have the instruction and support needed to master each one by the end of 12th grade.

We are also working to build additional access points to higher-level courses in compliance with NYS Department of Education commitment to equitable course enrollment. We will prepare students:

- to read widely, broadly, and deeply, including works of literature and non-fiction
- to communicate ideas effectively in writing and speech
- to be media literate and media responsible
- to synthesize comments, claims, and evidence made on all sides of an issue in order to respond thoughtfully to divergent perspectives
- to persevere when reading increasingly complex texts in order to adapt to college or career expectations

\* Current prerequisites use multiple measures (test grades, course averages, and teacher recommendations) and are essential to student success.

## Sample Pathways

There are a variety of opportunities for students that provide multiple access points to courses and the necessary rigor for success in future college and career pathways. Below are some possible sequences.

**Please note: they are only examples.** Some pathways require specific prerequisites.

|                     | focus  | FRESHMEN                | SOPHOMORES   | JUNIORS  | SENIORS   |
|---------------------|--|-------------------------|--|--|---|
| #1 core             | Keeps all options open for those navigating barriers to their success in English Language Arts | English 9               | English 10<br>English 10H with recommendation              | English 11<br>English 11 with recommendation               | English 12<br>College Prep<br>Capstone<br>Public Speaking with Eng 12 |
| electives available |  | Yearbook<br>TV News     | Public Speaking<br>Yearbook<br>TV News<br>Creative Writing | Public Speaking<br>Yearbook<br>TV News<br>Creative Writing | Public Speaking<br>Yearbook<br>TV News                                |
| #2 core             | Spartan Academy  | English 9<br>English 9H | English 10<br>English 10H<br>OCC Public Speaking           | English 11<br>Capstone<br><b>(if from 10H)</b>             | OCC 103 & 104<br>Capstone   |
| electives available |  | Yearbook                | Yearbook<br>TV News<br>Creative Writing                    | Yearbook<br>TV News<br>Creative Writing                    | Yearbook<br>TV News   |

*continued next page*

# English

|                       | focus  | FRESHMEN   | SOPHOMORES   | JUNIORS  | SENIORS  |
|-----------------------|--|--|--|--|--|
| <b>#3 core</b>        | <b>Career and Technical Education</b>        | English 9  | English 10   | English 11   | Public Speaking with English 12 400 or English 12 401 or Capstone  |
| electives available   |  | Yearbook<br>TV News  | Yearbook<br>TV News<br>Public Speaking<br>Creative Writing     | Yearbook<br>TV News<br>Public Speaking<br>Creative Writing     | Yearbook<br>TV News  |
| <b>#4 core</b>        | <b>Honors</b>                                | English 9H   | English 10H  | Capstone   | OCC 103 & 104  |
| electives available   |  | Yearbook<br>TV News<br>Creative Writing<br>OCC Public Speaking   |
| <b>#5 core</b>        | <b>Communications, Media, and Journalism</b> | English 9<br>English 9H  | English 10<br>English 10H                                      | English 11<br>Capstone<br><b>(if from 10H)</b>                 | College Prep<br>Capstone<br>OCC 103 & 104<br><b>(if from Capstone)</b>   |
| electives available   |  | Yearbook<br>TV News  | Yearbook<br>TV News<br>Creative Writing<br>OCC Public Speaking | Yearbook<br>TV News<br>Creative Writing<br>OCC Public Speaking | Yearbook<br>TV News  |
| <b>#6 core</b>        | <b>Wants creative expression</b>             | English 9<br>English 9H  | English 10<br>English 10H                                      | English 11<br>Capstone<br><b>(if from 10H)</b>                 | English 12<br>*incorporates creative writing, independent reading, and other elements in a class less rigorous than College Prep and 103/104<br><br>Capstone<br>*individualized<br>*focused/calm classroom |
| electives recommended |  | Yearbook   | Yearbook<br>TV News<br>Creative Writing<br>OCC Public Speaking | Yearbook<br>TV News<br>Creative Writing<br>OCC Public Speaking | Yearbook<br>TV News<br>OCC Public Speaking   |

# English

## English 9

**Credit: 1 unit**

**Grade: 9**

**Prerequisite: None**

This course introduces students to high school research, writing, and the study of literature building skills learned in grades 6-8. The year is divided into two semesters with the first semester focusing on integrating The Seven Habits of Successful Teens into our daily academic practices, vocabulary development, and literary analysis. In their study, students will read and interpret a broad range of literature, including poetry, short stories, novels, and Shakespeare. The second semester focuses on continued vocabulary development, media literacy, and research skills. This course includes both a mid-term exam and a final project.

## English 9 Honors

**Credit: 1 unit**

**Grade: 9**

**Prerequisite: teacher recommendation**

The English 9 Honors program is a rigorous course of study involving intensive reading and writing with a focus on making a successful transition to high school while developing the skills needed to be a balanced student. Critical thinking skills and evidenced-based writing are emphasized. Students will study a range of interesting, complex texts and ideas to give a platform of understanding of their relationships to the world through literature, nonfiction, and an intense study of research skills and methods, culminating in a major research project. This course includes both a mid-term exam and a final project.

## English 10

**Credit: 1 unit**

**Grade: 10**

**Prerequisite: Successful completion of English 9**

This course builds on the high school-level research, reading, writing, and thinking skills from English 9. Students will develop their ability to analyze and interpret literature and develop an understanding of the relationship between literature and history, with particular emphasis on the concept of justice. Additionally, students will refine their media literacy skills and further develop their vocabularies.

## English 10 Honors

**Credit: 1 unit**

**Grade: 10**

**Prerequisite: Successful completion of English 9H or successful completion of English 9 with a teacher recommendation**

This course is a year-long study in analyzing and interpreting literature and other text types identified by what people read, watch, and experience. Students will learn about rhetorical appeal, human motivation theory, literary terminology, and gaming terminology. Creative class endeavors include the study and creation of table-top games as the application and synthesis of classroom content. Students will learn about intellectual property, design, production and marketing of games while being introduced to top design and production talent from around the world. It is more than possible for students to market the games they create in class. Students will examine games through the lens of literary, historical, and other rhetorical contexts to bring a creative vision to life.

## English 11

**Credit: 1 unit**

**Grade: 11**

**Prerequisite: Successful completion of English 10**

This course requires students to build upon the research and argumentative writing skills they developed in English 9 and English 10. These skills include, but are not limited to, developing and writing research questions, formatting papers in APA style, composing arguable thesis statements, including parenthetically-cited direct quotes and paraphrasing in their writing to develop ideas, and recognizing and utilizing the recursive nature of the writing process. Furthermore, students will build upon the literary analysis skills developed in English 9 and English 10 by reading and interpreting a broad range of literature including poetry, short stories, and novels, in addition to writing text analysis responses. Vocabulary development is primarily advanced through morphological analysis. This class prepares students to take the New York State Regents Exam in English Language Arts which is required for graduation.

## Advanced Writing & Peer Tutoring

**Credit: 1 unit**

**Grade: 11, 12**

**Prerequisite: English 9 and 10**

This course encourages students to reflect upon the kind of growth that is necessary for a strong, intuitive writer and speaker to become a successful reader, listener and responder in peer-tutoring situations. Through a great deal of writing and rewriting, critical reading of published essays and student work, and informal and formal speaking, students will develop a conscious understanding of themselves as communicators and become aware of the choices they make to reach their audience. This course is tailor made for students who have a strong desire to help others, or who are interested in service professions such as teaching, social work or medicine. Before tutoring on their own, students will observe Center for Excellence in Writing consultants conducting sessions as part of

# English

a mentoring program. By the end of first semester, students should be ready to take on their own hours as peer tutors.

## The Capstone Experience

**Credit: 1 unit**

**Grade: 11, 12**

**Prerequisite: Successful completion of English 10 H, English 11 and/or Teacher recommendation**

The Capstone Experience is a full year course that allows students to choose and research a topic they find compelling and possibly relevant to their post-high school plans. After completing an early unit on writing and revising their personal statements for college admission essays, students begin the recursive process of researching and refining a path of inquiry which will result in writing a research paper. The second half of this course focuses on each student's Capstone Project which will showcase their abilities in critical thinking, problem solving, implementation and organization, while expanding their research, reading, writing, and oral communication skills. The goal of this course is to stretch the student in a new area of learning and growth, under the guidance of a mentor and the student's English teacher. Capstone Projects may take a variety of forms, but most are long-term, investigative, and culminate in a product, presentation, and/or performance. *With the successful completion of this course, students have the opportunity to earn three (3) SUNY Cortland college credits for a nominal tuition cost.* **Capstone** is appropriate for students who:

- a. are juniors who have successfully completed English 10 Honors
- b. are interested in taking a college course in a supportive HS environment
- c. would like to research and immerse themselves in a self-selected topic
- d. want to build a resume of college-level and professional "soft skills"
- e. are ready for "real world" experiences and connections in their field of interest

## Yearbook 1

**Credit: 1 unit**

**Grade: 9, 10, 11, 12**

**Prerequisite for Incoming Freshmen: Recommendation from middle school Art Teacher, English Teacher, or Yearbook Advisor.**

Students in this course are responsible for creating the school's yearbook. They will learn the basis of yearbooking including yearbook vocabulary, media literacy, and rules of journalism and photography. Students will learn how to take yearbook pictures, to use yearbook software effectively, to perform interviews, and to write and edit stories. They will produce pages for the school yearbook. Students are required to fulfill obligations outside of the classroom in order to meet publishing deadlines including attending club meetings and school events. This is a project based learning class that relies on students completing work on time for professional deadlines. *This course does not qualify for the English 12 graduation requirement. \*\*\*Summer work for the upcoming year is required for enrollment in the course.*

## Yearbook 2

**Credit: 1 unit**

**Grade: 10, 11, 12**

**Prerequisite: Yearbook 1**

Students in this course are responsible for creating the school's yearbook. They are responsible for writing stories and captions, completing yearbook spreads, editing pages and taking pictures. This is a more advanced course than Yearbook 1. It includes designing layouts, completing independently designed and completed pages, understanding and performing marketing strategies, and more advanced journalistic approaches. It also incorporates marketing strategies and public relations. Students in this course are required to fulfill obligations outside of the classroom in order to meet publishing deadlines including attending club meetings and school events. This is a project based learning class that relies on students completing work on time for professional deadlines. This course does not qualify for the English 12

graduation requirement. *This course does not qualify for the English 12 graduation requirement. \*\*\*Summer work for the upcoming year is required for enrollment in the course.*

## Yearbook 3

**Credit: 1 unit**

**Grade: 11, 12**

**Prerequisite: Yearbook 1, Yearbook 2**

Students who meet the requirements for Yearbook 3 have learned the foundational skills of yearbooking. They are provided editorial permissions and are assigned sections of the book to organize, plan, develop, and oversee. Students in this class are required to complete yearbook spreads from inception to completion. They are responsible for Yearbook social media marketing and management and for learning the ethics of journalism. They must attend events outside of school and are responsible for organizing and running Yearbook Club meetings. Yearbook 3 students have successfully completed Yearbook 1 and Yearbook 2 and are committed to producing yearbooks that will meet deadlines and be competitive at the high school level. *\*\*\*Summer work for the upcoming year is required for enrollment in the course.*

## Yearbook 4

**Credit: 1 unit**

**Grade: 12**

**Prerequisite: Yearbook 1, Yearbook 2, Yearbook 3**

Students in this class will have completed Yearbook 1, Yearbook 2, and Yearbook 3. They will have a sound understanding of student journalism and ethics, yearbook production, and photography and design. In Yearbook 4, students will put their leadership skills to the test as they assume the role of the editor of a large scale production. They are responsible for selecting a theme, designing pages consistent with the theme, managing a staff, assigning beats, keeping track of reporters and photographers, making final decisions about stories and photos and layout designs. This course requires students to meet strict deadlines, have

# English

strong writing and editing skills, and interact with others professionally. Students in this class will be eligible to receive English 12 graduation credit. \*\*\*Summer work for the upcoming year is required for enrollment in the course.

## Introduction to Theatre

**Credit: 1 unit**

**Grade: 9, 10, 11, 12**

**Prerequisite: None**

The purpose of this course is to increase understanding, appreciation, and critical perceptions of the theatrical event. This course will introduce the basic elements of the theatrical experience; including the history of theatre, play analysis and interpretation, performance critiques of live productions, role-playing and backstage activity. This course requires active student participation, input, and a willingness to explore individual theatrical interests. The final exam is based on the New York State Arts Assessment as it relates to the Core Standards. *This course fulfills the graduation requirement in the Arts.*

## College Prep English

**Credit: 1 unit**

**Grade: 12**

**Prerequisites: Successful completion of English 11, English Regents, and/or teacher recommendation**

This course offers a rigorous curriculum in both literature and composition based on selections from English and American literature. Reading and writing intensive, College Prep English is designed specifically for the college-bound student. Students will write and revise their personal statements for their college admission essays. The curriculum concentrates on critical reading, analytical writing and revision and research skills needed for college-level work. **College Prep** is necessary for any student who:

- needs to develop academic reading, writing, and thinking skills
- has taken regular English 11, and is not taking Capstone.

## English as a Second Language ELA (ENL ELA)

**Credit: 1 unit**

**Grade: 9, 10, 11, 12**

**Prerequisite: Screening and NYS assessment**

The predominant focus of this course is to improve English language acquisition skills in listening and speaking, and content reading and writing skills within the academic setting. Additional strategies that build upon the students' current skills in English are introduced and implemented using approved methods for language acquisition. A New York State assessment is administered in May.

## English 12 (half year)

**Credit: 1/2 unit**

**Grade: 12**

**Prerequisite: Successful completion of English 11**

This course builds on students' present level of mastery of NYSED ELA Learning Standards with a focus on vocabulary development, textual analysis, media literacy, and personal research for college, career, and a deeper understanding of self. English 12 culminates with a final comprehensive portfolio of varied pieces focusing on the student's future. **English 12 (400)** is a **half-year** course. This course focuses on developing career readiness through units such as:

- College/Career/Self-discovery
- Textual analysis of film and abbreviated texts
- Media Literacy and analysis
- Writing for practical purposes



# English

## English 12 (full year)

**Credit: 1 unit**

**Grade: 12**

**Prerequisite: Successful completion of English 11**

This course builds on students' present level of mastery of NYSED ELA Learning Standards with a focus on textual analysis, media literacy, and personal research for college, career, and a deeper understanding of self. In the second half of the course, students will reinforce their skills of analysis with film, graphic novels, and a variety of other texts. To culminate the course, students will complete a unit on storytelling and writing for multimedia platforms. **English 12 (401)** is not the same as past versions of English 12.

This new full-year course is designed to develop the skills listed above along with skills **for career readiness** through units such as:

- College/Career/Self-discovery
- Textual analysis of full-length works (potentially YA novels and or graphic novels)
- Media Literacy and analysis
- Oral Communication
- Creative writing

## Creative Writing

**Credit: 1/2 unit**

**Prerequisite: Teacher Recommendation**

Creative Writing is a rigorous elective open to sophomores, juniors, and seniors interested in developing their creative writing skills through daily writing and revision. Students in this course will be expected to write between eight and ten formal pieces culminating in thirty to thirty-five pages of written text by the end of the semester. Creative Writing is for students who are self-motivated writers and willing to engage in oral and written critiques of their own writing and the writing of their classmates.

**Creative Writing** is a  $\frac{1}{2}$  year course for sophomores, juniors, and seniors who:

- want to develop creative writing skills
- are prepared to write between eight and ten formal pieces culminating in thirty to thirty-five pages of written text by the end of

the semester.

- are self-motivated writers and willing to engage in oral and written critiques of their own writing and the writing of their classmates.

\*\*\* This course is not a traditional senior elective. Instead, it is for students sincerely interested in participating in a writing community with other like-minded and motivated students.

## SUNY OCC ENG 103 Fresh./Comp. I (3 credits)

**Credit: 1/2 unit**

**Grade: 12**

**Prerequisite: None**

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 non-fiction texts may be used to develop understanding of rhetorical conventions and genres. Composing in and for electronic environments.

**OCC 103/104** is appropriate for any student who:

- is prepared to manage an accelerated program with college-level reading and writing
- wants to earn three college credits

## SUNY OCC ENG 104 Fresh./Comp. II (3 credits)

**Credit: 1/2 unit**

**Grade: 12**

**Prerequisite: ENG 103**

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. Students are eligible to sign up and take the AP English Literature and Composition Exam. **OCC 103/104** is appropriate for any student who:

- is prepared to manage an accelerated program with college-level reading and writing
- wants to earn 3 college credits

## SUNY OCC COM 210 Public Speaking (3 credits)

**Credit: 1/2 unit**

**Grade: 10, 11, 12**

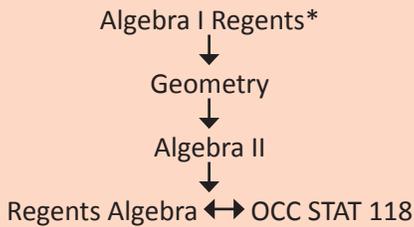
**Prerequisite: None**

Public Speaking is a course designed to acquaint the student with the basic theories and skills of public discourse. Course content includes the importance of audience analysis and adaptation, topic selection, organization, elements of delivery, and critical analysis of discourse. Word study, effective non-verbal skills and critical listening skills are also stressed. This course is a survey of oral communication; it includes reinforcement of the New York State standards and the basic skills: reading, writing, speaking and listening. Students prepare and deliver various types of speeches, learn to give and receive constructive feedback and analyze an array of great speeches throughout the semester.

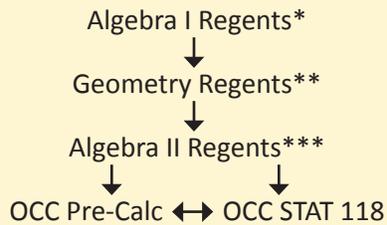
# Mathematics

## Sample Math Sequences - Combinations may vary

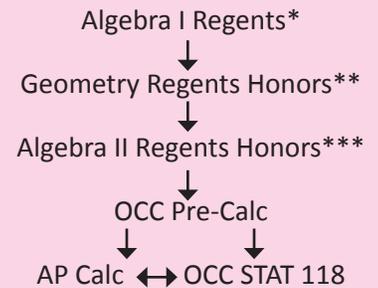
### Regents



### Advanced Regents



### Accelerated Regents



## Algebra I Regents

**Credit: 1 unit**

**Grade: 8\*, 9**

**Prerequisite: None**

The content of this course is governed by the syllabus provided by the State of New York and is aligned to Common Core State Standards. The focal point of the course is the algebra content strand. Algebra provides tools and ways of thinking that are necessary for solving problems in a wide variety of disciplines, such as science, business, social sciences, fine arts, and technology. Course topics include: Relationships between quantities and Reasoning with Equations, Linear and Exponential Relationships, Descriptive Statistics, Expressions and Equations, and Quadratic Functions and Modeling. This course will assist students in developing skills, techniques, and processes to successfully solve problems in various settings. The course prepares students for the Common Core Algebra 1 Regents exam. **\*8th grade students are eligible to take this course for credit as an accelerated option with Math teacher recommendation.**

## Geometry Regents

**Credit: 1 unit**

**Grade: 10**

**Prerequisite: Successful completion of Algebra I Regents**

The content of this course is governed by the syllabus provided by the State of New York and is aligned to Common Core State Standards. The focal point of the course is the geometry content strand. Students will investigate geometric situations, justify geometric relationships, and study properties of geometric figures. Additional topics of study include: constructions, transformations, coordinate geometry, congruence and similarity of figures and trigonometry. Geometry is meant to lead students to an understanding that reasoning and proof are fundamental aspects of mathematics and something that sets it apart from other sciences. This class prepares the student for the Common Core Geometry Regents exam and is mandatory for the student wishing to attain a Regents Diploma with Advanced Designation.

## Geometry Regents Honors

**Credit: 1 unit**

**Grade: 9**

**Prerequisites: Successful completion of Algebra I Regents**

The course follows the content of Math 10 with enrichment in additional topics.

# Mathematics

## Geometry

**Credit: 1 unit**

**Grade: 10, 11**

**Prerequisite: Successful completion of Algebra I Regents**

The focal point of this course is the geometry content strand. A selection of topics from the common core standards will be explored. Students will investigate geometric situations, justify geometric relationships, and study properties of geometric figures. Additional topics of study include: constructions, transformations, coordinate geometry, congruence and similarity of figures, and trigonometry. Geometry is meant to lead students to an understanding that reasoning and proof are fundamental aspects of mathematics and something that sets it apart from other sciences. The student will be exposed to more hands-on applications of the given geometric concepts during this course. Students will take a local final exam at the end of the year. This course is intended for the college bound student. This course and the next course, Algebra 2, provide students with skills needed for college.

## Algebra II

**Credit: 1 unit**

**Grade: 11, 12**

**Prerequisites: Successful completion of Geometry Regents or successful completion of Geometry and Algebra 1 Regents Exam.**

The content of this course will cover concepts required for the Algebra 2 - Common Core Algebra Syllabus which is governed by the State of New York Common Core Standards. Building on their work with linear, quadratic and exponential functions, students extend their repertoire of functions to include polynomial, rational and radical functions. Students work closely with the expressions that define the functions and continue to expand and hone their abilities to model situations and to solve equations, including solving quadratic equations over the set of complex numbers and solving exponential equations using the properties of logarithms.

*Courses are subject to change based on staffing and student need.*

## Algebra II Regents

**Credit: 1 unit**

**Grade: 11, 12**

**Prerequisites: Successful completion of Algebra I Regents and Geometry Regents**

The content of this course is governed by the State of New York and is aligned to Common Core State Standards. Building on their work with linear, quadratic, and exponential functions, students extend their repertoire of functions to include polynomial, rational, and radical functions. Students work closely with the expressions that define the functions and continue to expand and hone their abilities to model situations and to solve equations, including solving quadratic equations over the set of complex numbers and solving exponential equations using the properties of logarithms. Additional topics include Sequence and Series, Probability and Statistics. This course prepares the student for the Common Core Algebra II Regents exam and is mandatory for the student wishing to attain a Regents Diploma with Advanced Designation.

## Algebra II Regents Honors

**Credit: 1 unit**

**Grade: 10**

**Prerequisites: Successful completion of Algebra I Regents and Geometry Regents**

This course covers the content of the Algebra II Regents class with enrichment and additional topics.

## SUNY OCC MAT 143 Pre-Calculus with Trigonometry (4 college credits)

**Credit: 1 unit**

**Grade: 11\*, 12**

**Prerequisite: Successful completion of Algebra II Regents**

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. *A Ti-84 graphing calculator is required for this course.* \*For accelerated juniors. A grade of 70 is needed to earn college credit.

## SUNY OCC MAT 118 Exploring Statistics (3 College credits)

**Credit: 1 unit**

**Grade: 12**

**Prerequisites: Successful completion of two Regents level Math courses and one additional Math course**

This is an introductory statistics course for non-STEM majors. Topics include: random sampling, graphical displays of data, measures of central tendency and dispersion, normal distribution, standard scores, confidence intervals, hypothesis testing. Student distribution two tables, probability, correlation and regression. A grade of 70 is needed to earn college credit. *A Ti-84 graphing calculator is required for this course.*

# Mathematics

## AP Calculus

**Credit: 1 unit**

**Grade: 12**

**Prerequisite: Completion of Pre-Calculus**

This course covers the syllabus provided for AP Calculus. It is intended for students who have a thorough knowledge of college preparatory mathematics including algebra, trigonometry and analytical geometry. Topics covered are Differential Calculus and Integral Calculus. After the Advanced Placement exam in May, project work will be assigned. The awarding of college credit depends upon the student's score on the examination and the requirements of the college the student chooses to attend. *A TI-84 graphing calculator is required for this course. There is a cost associated with the AP exam.*

## AP Statistics

**Credit: 1 unit**

**Grade: 12**

**Prerequisite: Completion of SUNY OCC Pre-Calc**

This course covers the syllabus provided for AP Statistics. Topics cover the descriptive and inferential aspects of statistics and include: frequency distribution, graphs, measures of central tendency and dispersion, linear correlation and regression, probability, probability distributions, binomial and normal distributions, introduction to sampling theory, estimation theory, and hypothesis testing. Computer software will be used. The awarding of college credit depends upon the student's score on the examination and the requirements of the college the student chooses to attend. *There is a cost associated with the AP exam. A TI-84 graphing calculator is required for this course.*

## Advanced Topics with Algebra 2

**Credit: 1 unit**

**Grade: 11, 12**

**Prerequisites: At least two math credits and/or teacher recommendation**

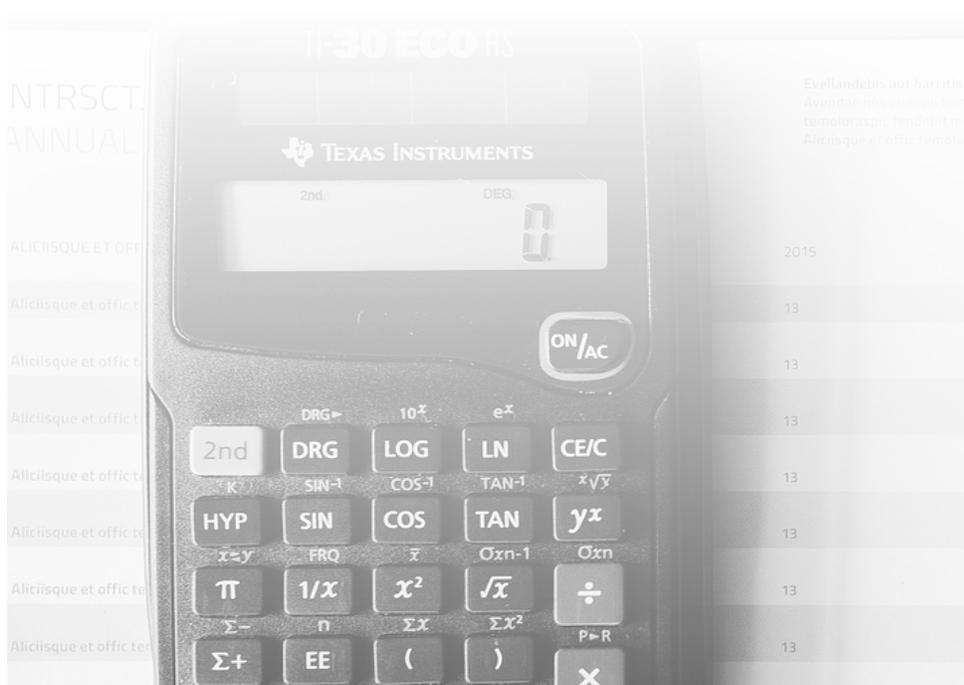
This course prepares students for an entry level college Algebra placement test. Topics previously studied in Algebra 1 and Algebra 2 are studied at a deeper level. Topics covered in this course include polynomials, factoring, rational and irrationals, complex numbers, quadratics, exponents and trigonometry.

## Business Math

**Credit: 1 unit**

**Grade: 11, 12**

Students will have the opportunity to learn about the mathematics that need to be taken into account when owning and operating a business. These math concepts would be all applicable to the real world and not just a calculation based math class. Students would be introduced to business basics and financial mathematics. Students will also participate in a 10-12 week Project Based Learning experience during which students will be given the opportunity to create a business using these fundamentals. Students will be challenged to create their own business that will be successful in today's market. Students will kick-off the project by visiting local businesses. Students will then partake in a series of weekly mini-projects where they will write a basic business plan, analyze business expenses, create a logo & business card, record a video advertisement, then create a business presentation for which they can pitch in our very own version of "Shark Tank."



# Music

## Mixed Choir

**Credit: 1 unit**

**Grade: 9, 10, 11, 12**

**Prerequisite: None**

All freshmen singers sing in the Mixed Choir. Members of this group perform at all ESM High School concerts. Students will learn how to develop their voices and their self-confidence. A variety of music is performed and students may try solos or competitions later in the school year. Students in this group can also audition for the musical or All-County Choir. *This course fulfills the graduation requirement in the Arts.*

## Chorale

**Credit: 1 unit**

**Grade: 10, 11, 12**

**Prerequisite: An audition may be required**

Chorale is an advanced ensemble for students who are looking for a more rigorous music curriculum with greater academic and personal expectations. This group performs within the district and coordinates events. Students are expected to put in time outside of the classroom in order to meet course expectations. Students rehearse and perform various diverse genres of vocal literature, which allows students to acquire the skills, habits, and techniques necessary for successful musical performance and achievement. *This course fulfills the graduation requirement in the Arts.*

## Music Theory I

**Credit: 1/2 unit**

**Grade: 10, 11, 12**

**Prerequisite: Instructor's permission required if student is not in Band or Chorus**

The objectives of this course are: To achieve a workable knowledge of the basic rules and principles of music, to train the ear to recognize sounds individually and in combinations, to improve the ability to read and perform music with sensitivity and accuracy, to learn the fundamentals of arranging and harmonizing, to study keys, clefs, staves, time signatures, rhythmic patterns, terms chords, melody and other music tools. *This course fulfills the graduation requirement in the Arts.*

## AP Music Theory

**Credit: 1 unit**

**Grade: 11, 12**

**Prerequisites: Music Theory 1 or permissions of the Instructor**

AP Music Theory is an intense, fast-paced and in-depth course that explores all aspects of the question, "Why does music work?" Students in this course will study analysis, composition, music history and aural skills as it applies to Western Art Music, including music of today. Through this study, students will be able to better recognize, understand and describe the intricacies of what is presented in a score, thus improving their own abilities to perform, listen to and appreciate music. The awarding of college credit depends upon the student's score on the examination and the requirements of the college the student chooses to attend. *There is a cost associated with the AP exam.*

## Concert Band

**Credit: 1 unit**

**Grade: 9, 10, 11, 12**

**Prerequisite: Instrumental lessons**

Concert Band is designed to give students the skills necessary to excel in the High School Concert Band. The demands for good musicianship, consistency of performance and musical excellence are constant. Students are expected to prepare for and attend one 30-minute lesson per week. Grading emphasis is placed on lesson attendance and preparedness, and positive contribution to the ensemble during rehearsal and performance. A wide variety of concert band literature will be performed and explored. Concert Band members are to be highly motivated and interested in acquiring the necessary skills, techniques and habits needed to become proficient on the instrument at an intermediate level. Concert Band helps to prepare students for future participation in the Wind Ensemble. *This course fulfills the graduation requirement in the Arts.*

# Music

## Wind Ensemble

**Credit: 1 unit**

**Grade: 9, 10, 11, 12**

**Prerequisite: The Wind Ensemble is a select group from which an audition may be required**

The East Syracuse Minoa High School Concert Bands are the instrumental ensembles for which all other select Instrumental groups are chosen. Two sections are offered in the high school. Each band performs frequently, both in and out of the school district. The demands for good musicianship, consistency of performance and musical excellence are constant. Students are expected to attend 6 lessons per marking period. The grading emphasis is on lesson preparedness and contribution to the ensemble during rehearsal and performances. The Wind Ensemble performs a wide variety of musical literature, from symphonic transcriptions and concert marches to Broadway and pop tunes. Wind Ensemble members should be highly motivated and interested in acquiring necessary skills, techniques and habits required to become proficient on their instruments. *This course fulfills the graduation requirement in the Arts.*

## Concert Band/Choir Combo

**Credit: 1/2 unit for each course**

**Grade: 9, 10**

**Prerequisite: None**

These courses are for students who wish to be in both band and choir. The same demands for good musicianship, consistency of performance and musical excellence are at an intermediate level. For additional information see individual course descriptions. *These two 1/2 year courses together fulfill the graduation requirement in the Arts.*

## Wind Ensemble/Chorale Combo

**Credit: 1/2 unit for each course**

**Grade: 10, 11, 12**

**Prerequisite: None**

These courses are for students in grades 9-12 who wish to be in both band and choir. The same demands for good musicianship, consistency of performance and musical excellence are at an advanced level. For additional information see individual course descriptions. *These two 1/2 year courses together fulfill the graduation requirement in the Arts.*



# Physical Education

*“Each student shall gain the skills and knowledge to achieve a life-long healthy and physically active lifestyle.”  
-East Syracuse Minoa Central Schools Physical Education Department Goal-*

Educational achievement is the primary concern in all public school systems. Physical Education works in conjunction with academics to achieve East Syracuse Minoa’s educational objectives. The development of an individual’s physical potential and his/her mental and social development remains the number one objective of our school district.

Recognizing this priority, the East Syracuse Minoa School District has established a unified Physical Education program designed to use theme-based activities and individual, team and lifetime sports as a vehicle for maximizing student growth.

All students are required to take and pass 2 credits of Physical Education in order to graduate. Students must actively participate in all classes and activities to earn a passing grade of 65 or higher.

## Physical Education 9 and Physical Education 10

*Credit: 1/2 unit for each year*

*Grade: 9, 10*

*Required course for graduation*

Freshmen and sophomores take a core group of team sports, individual sports, self-defense and dance. Physical Education 9/10 offers the following co-curricular activities:



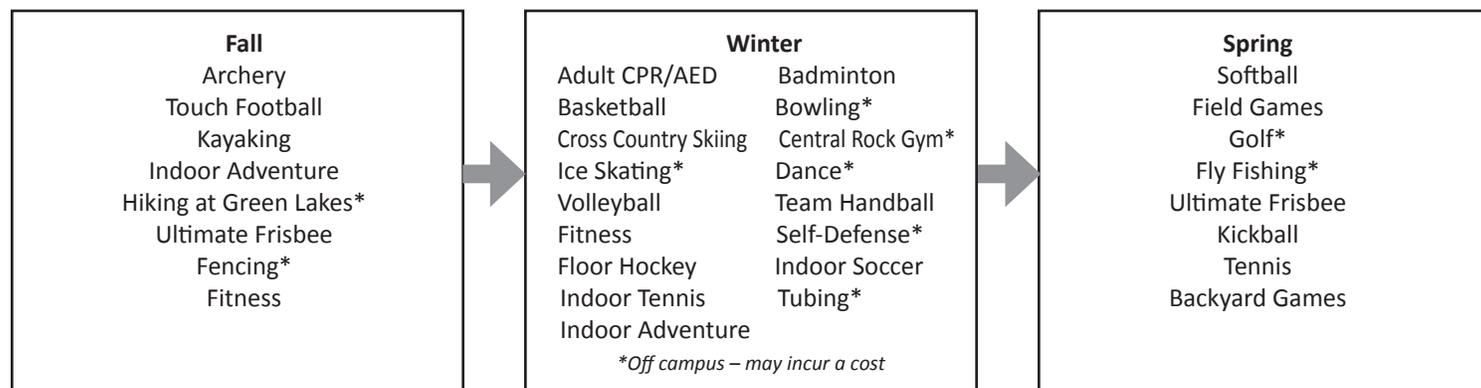
## Physical Education 11 and Physical Education 12

*Credit: 1/2 unit for each year*

*Grade: 11, 12*

*Required course for graduation*

Physical Education 11/12 is a co-ed elective-selective program. Choices always include a variety of team, individual, lifetime, outdoor and off-campus activities. Many new activities are introduced at this level. Physical Education 11/12 offers the following co-curricular activities:



# Physical Education

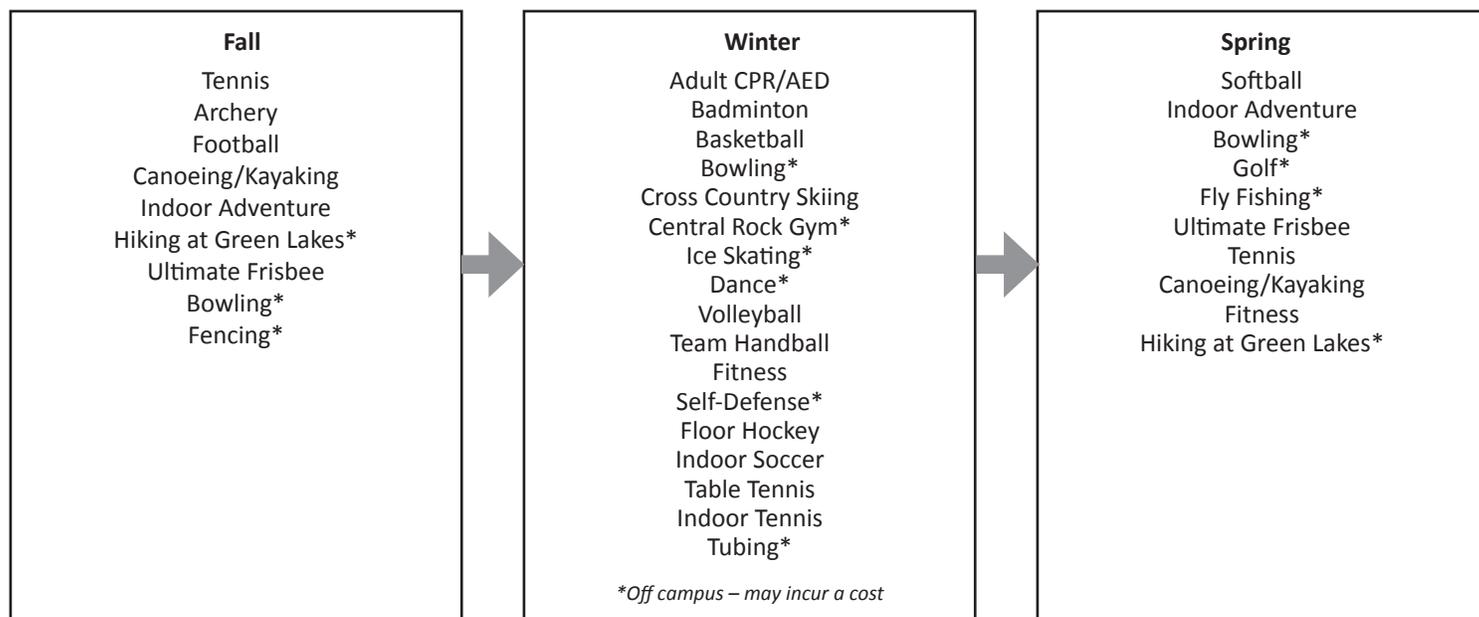
## Physical Education Excelled

**Credit: 1/2 unit**

**Grade: 11, 12**

**Prerequisites: Grade 9 and 10 requirements in Physical Education must have been met. Candidates must have passed all four marking periods with a cumulative Physical Education GPA of 90% or higher the previous year and have a physical education teacher's recommendation**

PE Excelled is an 11/12th grade elective class. It is designed for students who are passionate about being active in individual, team, and lifetime activities while enhancing the culture of thinking and learning. Many of the students that enroll in PE Excelled are interested in careers in physical and health sciences, education and/or athletics. Many of the students who enroll in PE Excelled go on to stay involved in the field of Physical Education, Health, Sciences or Dance after high school. Students are expected to maintain a high average to remain in the course.



# Health

## Health Education

**Credit: 1/2 unit**

**Grade: 9, 10, 11, 12**

**Prerequisite: None**

This course gives students the necessary knowledge, skills, and motivation to promote and protect their personal health. Students examine issues related to drug and alcohol use/abuse, vaping, mental health, nutrition, reproduction and sexually transmitted infections, problem solving, communication, decision making, and stress management. A variety of educational techniques are used to personalize the material and allow students to apply to their everyday lives. After completing this course, students are better prepared to develop a lifestyle that benefits their health. Final assessment: Department Final Exam. *This course is required for graduation.*

# Science

Sample Science sequences - Combinations may vary

**A**

8th - 12th

Living Environment Regents  
 Earth Science Honors  
 Chemistry Regents  
 Physics - Regents, SUPA  
 Special Topics in Research  
 SUPA Chemistry  
 SUPA Forensic Science or Forensic Science  
 SUNY ESF Global Environment  
 RxeSEARCH  
 Anatomy and Physiology  
 SUNY Biology

**B**

9th - 12th

Earth Science Regents  
 ↓  
 Living Environment Regents  
 ↓  
 Physics - Regents, SUPA  
 Regents Chemistry  
 Forensic Science  
 SUNY Global Environment  
 Environmental Science  
 ↓  
 SUNY Biology or Chemistry Regents  
 SUPA Forensic Science or Forensic Science  
 Anatomy and Physiology  
 RxeSEARCH  
 SUNY ESF: Special Topics in Research

**C**

9th - 12th

Earth Science Regents  
 ↓  
 Living Environment Regents  
 ↓  
 Chemistry Foundations or Regents  
 Environmental Science  
 Forensic Science  
 Anatomy & Physiology

Students in the accelerated path for science will take high school level Living Environment (Regents) in 8th grade and will therefore have the opportunity to take up to 5 years of science instead of 4 years.

**Passing a Science Regents exam is required for graduation.**



# Science

## Earth Science Regents

**Credit: 1 unit**

**Grade: 9**

**Prerequisite: None**

This course encourages students to use scientific processes to investigate their surroundings. Extensive laboratory exercises use the students' life experiences and natural surroundings to help provide a better understanding of the planet Earth and its place in the universe. The course is organized into these areas: Astronomy, Geology, Meteorology, Geologic History, and Physical Oceanography. In the block schedule, the class meets 3 out of 4 times in each cycle, averaging about 6 hours in a five-day week. Earth Science is an initial course in science. Students are required to complete and pass a minimum number of lab activities prior to taking the Regents exam in June. As part of the Regents exam, students also take a lab performance test, covering major laboratory skills and activities, approximately two weeks prior to the written Regents exam. This performance test counts for approximately 15% of the total Regents score. Students must complete 1,200 minutes of lab experience and have satisfactory written lab reports on file for admission the Regents examination.

## Earth Science Honors

**Credit: 1 unit**

**Grade: 9**

**Prerequisite: Successful completion of Living Environment Regents in 8th grade**

Earth Science with Symposium is a rigorous course that covers the content and requirements of Earth Science (Geology, Meteorology and Astronomy) and engages students in a multi-month research project culminating in an Earth Science Symposium. Students develop skills in file management, database searches for scholarly articles, how to read scholarly publications for understanding, and also how to create different types of work products. Students are required to complete and pass a minimum number of lab activities prior to taking the Regents exam.

## Living Environment Regents

**Credit: 1 unit**

**Grade: 8\*, 10, 11, 12**

**Prerequisite: Successful completion of Earth Science Regents**

Students study the interrelationships between organisms (plants, animals, microbes and humans), environment, biochemistry, modes of reproduction and development, genetic continuity, cellular structure and physiology, patterns of evolution and adaptation, and comparative animal and plant anatomy and physiology. Laboratory work is an integral part of each unit of study. Students must complete 1,200 minutes of lab experience and have satisfactory written lab reports on file for admission to the Regents examination.

\*8th grade students are eligible to take this course for credit as an accelerated option with Science teacher recommendation. Students must complete 1,200 minutes of lab experience and have satisfactory written lab reports on file for admission to the Regents examination.

## Chemistry Regents

**Credit: 1 unit**

**Grade: 10, 11, 12**

**Prerequisite: Currently taking Algebra II or Algebra II Regents and/or teacher recommendation—High-level math skills are recommended and successful completion of Living Environment Regents and Earth Science Regents**

This course presents a modern view of chemistry that is designed for students who plan to pursue science, engineering or mathematics in college. High-level math skills are required. The units of study include: Elements and the Periodic Table, Compounds, Mathematics of Chemistry, Energy, Kinetics and Equilibrium, Acid-Base Theories, Redox and Electrochemistry, Organic Chemistry, and Applications of the Principles of Chemistry. Students must complete 1,200 minutes of lab experience and have

satisfactory written lab reports on file for admission to the Regents examination.

## Chemistry Regents Honors

**Credit: 1 unit**

**Grade: 10, 11**

**Prerequisite: Successful completion of Earth Science and Living Environment. Currently enrolled in Algebra 2 Regents and/or teacher recommendation**

This course is designed for students who plan to pursue science, engineering or mathematics in college. Topics beyond the NYS Regents curriculum will be included. An additional project, Journal Club, will have students researching current topics in chemistry and completing group presentations once a marking period. Units of study include elements and the periodic table, compounds, mathematics of chemistry, energy, kinetics and equilibrium, acid-base theories, redox and electrochemistry, organic chemistry, and applications and principals of chemistry. Students must complete 1200 minutes of lab experience and have satisfactory written lab reports on file for admission to the Regents examination.

## Chemistry Foundations

**Credit: 1 unit**

**Grade: 11, 12**

**Prerequisite: Successful completion of two years of high school science and math**

This course focuses on the practical application of chemistry to the world around us. Basic mathematical skills are necessary. Students requiring a basic knowledge of chemistry for further studies in agriculture, photography, environmental science, or other professional training will benefit from this course. The course includes many hands-on labs. Topics include: Lab Analysis, Environmental Chemistry, Food Chemistry, Energetics, Atomic Structure, Elements, Bonding, Acids and Bases, Solution Chemistry, Organic Chemistry and Nuclear Chemistry.

# Science

## Physics Regents

**Credit: 1 unit**

**Grade: 11, 12**

**Prerequisite: Currently taking Algebra II or Algebra II Regents teacher recommendation— High-level math skills are recommended and successful completion of Living Environment Regents and Earth Science Regents**

Physics is designed for the academically oriented student and introduces topics in classical mechanics, electricity and magnetism, waves and light. Proficiency in algebra and trigonometry is required. Students must complete 1,200 minutes of lab experience and have satisfactory lab reports on file for admission the Regents examination.

## Forensic Science

**Credit: 1 unit**

**Grade: 11, 12**

**Prerequisites: Successful completion of Living Environment Regents**

Forensic Science is an introductory course. Students will apply their background knowledge from biology and chemistry to solving crimes. Topics will include, DNA, blood analysis, fingerprinting, hairs, fibers, glass, chemical analysis and crime scene processing. A comprehensive final exam will account for 20% of the final grade.



## SUPA CHE 113 Forensic Science (Syracuse University Project Advance) (4 credits)

**Credit: 1 unit**

**Grade: 11, 12**

**Prerequisites: Living Environment Regents and Chemistry Regents or teacher recommendation**

This four (4) credit college course focuses on the application of scientific methods and techniques to crime and law. The course provides an introduction to understanding the science behind crime detection. Scientific methods specifically relevant to crime detection and analysis will be presented, emphasizing techniques used in evaluating physical evidence. Topics include blood analysis, organic and inorganic evidence analysis, microscopic investigations, hair analysis, DNA drug chemistry and toxicology, fiber comparisons, paints, glass comparisons, finger-prints, soil chemistry, and arson investigations. The course has a laboratory component, which teaches techniques used in crime scene investigations. A comprehensive final exam will account for 20% of the final grade. *There is a tuition cost for enrollment in SUPA courses.*

## RxeSEARCH - An Education Journey

**Credit: 1/2 unit—outside of the school day; Oct - March**

**Grade: 11, 12**

**Prerequisites: Living Environment Regents, Chemistry Regents or at least a concurrent enrollment in Chemistry Regents**

The RxeSEARCH curriculum takes students through the discovery, development and marketing of a pharmaceutical drug. A series of eleven lessons involving reading assignments and hands-on lab activities expose students to many facets of the pharmaceutical industry. The lessons involve biology, chemistry, general science, mathematics, language arts, ethics, social studies, business and marketing. This multidisciplinary approach is designed to engage and enlighten students. The experience will also introduce students to a wide variety of pharmaceutical career opportunities. Students will complete team final projects that will be presented at Bristol Myers-Squibb. *This is a Pass/Fail course.*

## Environmental Science

**Credit: 1 unit**

**Grade: 11, 12**

**Prerequisite: Successful completion of Living Environment Regents**

This is a project-based course involving studies of air, soil, streams, lakes and their interrelationships with living organisms. Topics covered include food web interactions, aquatic biology, forest biology, conservation of natural resources, wildlife populations, natural cycles, air and water pollution, and climate change. This course takes an interdisciplinary approach that includes photography, art, language arts, physical education, and computer skills.

# Science

## **SUPA PHY 101/102 Physics (Syracuse University Project Advance) (8 credits)**

**Credit: 1 unit**

**Grade: 11, 12**

**Prerequisites: None**

This is the one-year introductory, non-calculus physics science. This algebra-based course includes a regularly scheduled lab and provides the necessary physics background for health professionals and others who need physics but are not required to take a calculus-based course. The course introduces topics in classical mechanics, electricity and magnetism, waves and light. Students may earn up to eight (8) college credits and/or exemption from college courses. *There is a tuition cost for enrollment in SUPA courses.*

## **SUNY OCC 121/123/124 Biology (8 credits)**

**Credit: 1 unit**

**Grade: 11, 12**

**Prerequisites: Successful completion of Living Environment Regents, Chemistry Regents.**

SUNY OCC Biology is a college course for highly motivated students. It is equivalent to two semesters of Introductory College Biology. A summer assignment including text readings and study guides must be completed prior to the beginning of school. Topics will include cell physiology, biochemistry, taxonomy, evolution, ecology, reproduction and development, genetics, plant and animal anatomy and physiology. There will be a final exam for BIO IS1 in January and a separate final for BIO IS2 in June. The final exams will count for 20% of the final grade in each course.

## **SUNY-ESF: The Global Environment (EFB 120) (3 credits)**

**Credit: 1 unit**

**Grade: 10, 11, 12**

**Prerequisites: Successful completion of Living Environment Regents and recommendation of science faculty. Concurrent or successful completion of Chemistry Regents**

This is a three (3) credit college-level environmental science course designed to help students make informed decisions regarding the environment. Topics include pollution, deforestation, climate change, acid rain, soil depletion, economics, evolution, history, and social justice. The course stresses a science-based systems approach in evaluating problems and potential solutions as well as the critical role of energy in many of the environmental challenges facing the world. An overnight field experience is required for course participants. Off-campus data collection/research is required. *There is a tuition cost for enrollment in SUNY courses. An additional fee will be assessed to cover the overnight field experience.*

## **SUNY-ESF: Special Topics in Research (1-3 credits)**

**Credit: 1 unit**

**Grade: 11, 12**

**Prerequisites: SUNY ESF: The Global Environment (take this as 2nd part of course the next year)**

This is a college level course and can earn 1-3 SUNY Credits depending on project work. Provides experimental, interdisciplinary, or special coursework at the junior and senior levels within the field of environmental resources. As part of the ESF in the high school program at East Syracuse Minoa High School this one to three credit course has coupled

with the SUNY ESF Global Environment class. This allows the students to explore biomass energy technologies and work on a biomass research project with the Minoa Cleanwater Education Research Facility (CERF). At CERF the students do hands-on work to turn waste into energy. Students learn problem solving, project management, and time organization while collecting data and discussing results. One project was the anaerobic digester and researching the use of compost pikes as a source of thermal energy. *There is a tuition cost for enrollment in SUNY courses.*

## **Anatomy and Physiology**

**Credit: 1 unit**

**Grade: 11, 12**

**Prerequisites: Living Environment Regents, Chemistry Regents.**

Anatomy and Physiology is intended for students who wish to pursue a career as a doctor, nurse, veterinarian, dentist, biologist, or pharmacist. These students will likely be required to take a college-level anatomy and physiology course in their freshman or sophomore year. Therefore, the purpose of the course is to introduce anatomy and physiology so they will be better prepared for the challenges of this rigorous coursework. It will focus on eleven systems of the body and include learning the names and functions of thousands of structures. The course requires a great deal of memorization. Coursework includes a combination of lectures, reading independent projects, laboratory experiences, and mink dissection. Exams will include identification of structures by lab practical, oral quizzes and written responses. Exams constitute a large part of each marking period grade. There is a comprehensive final exam worth 20% of the course average.

# Social Studies

| <b>CORE REQUIREMENTS</b>                | <b>OPTIONS AVAILABLE</b>  |
|---|---|
| <b>Global History and Geography 1</b> ➤ | Global History and Geography 1<br>Global History and Geography 1 Honors   |
| <b>Global History and Geography 2</b> ➤ | Global History and Geography 2<br>Global History and Geography 2 Honors<br>Advanced Placement World History                       |
| <b>US History and Government</b> ➤      | US History and Government<br>Advanced Placement U.S. History  |
| <b>Economics</b> ➤                      | Economics<br>Syracuse University Project Advance Economics<br>AP US Government and Politics                                       |
| <b>Government</b> ➤                     | Participation In Government/Law Studies<br>Syracuse University Project Advance<br>Public Studies<br>AP US Government and Politics |

\* See prerequisites under course descriptions

| <b>ELECTIVE COURSES IN SOCIAL STUDIES</b>              | <b>PREREQUISITES</b>   |
|--|--|
| <b>Psychology</b> ➤<br><b>AP Psychology</b> ➤          | Successful completion of Global History and Geography courses<br>Global History and Geography 2                          |
| <b>Sociology</b> ➤                                     | None   |
| <b>Syracuse University Project Advance Sociology</b> ➤ | Successful Completion of Global History and Geography courses<br>U.S. History Regents Exam<br>and Teacher Recommendation |

# Social Studies

## AP African American Studies

**Credit: 1 unit**

**Grade: 11, 12**

**Prerequisite: Successful completion of Global I & II and US History**

AAP African American Studies is a college level course that is an interdisciplinary study of the experiences of African Americans from the diaspora through modern day movements for social change. This course studies not only African American history but also literature, music and achievements of those in the African American community. The course culminates in the AP Exam and a Project that will be submitted to the College Board.

## Global History and Geography 1

**Credit: 1 unit**

**Grade: 9**

**Prerequisite: None**

This course, the first in a two-year sequence, follows a chronological format, emphasizing the development of human's political, economic, geographic and social institutions. European, African, Asian, and Latin American histories are studied through their cultural heritages, conflicting ideologies and ever-changing characters, from the formation of early civilization through the Age of Enlightenment.

## Global History and Geography 1 Honors

**Credit: 1 unit**

**Grade: 9**

**Prerequisites: teacher recommendation**

This course is designed for honor students in social studies and involves outside reading and development of critical thinking and writing skills. The first in a two-year sequence, it follows a chronological format, emphasizing the development of human's political, economic, geographic and social institutions. European, African and Asian histories are studied through their cultural heritages, conflicting ideologies and ever-changing characters, from the formation of early civilizations through the Age of Enlightenment.

## Global History and Geography 2

**Credit: 1 unit**

**Grade: 10**

**Prerequisite: Global History and Geography 1**

This course focuses on the modern world after 1750. Events are studied through conflicting ideologies and ever-changing geopolitical patterns. Understanding of concepts associated with the modern world is reinforced through the application of various skills developed in previous social studies courses.

## Global History and Geography 2 Honors

**Credit: 1 unit**

**Grade: 10**

**Prerequisites: Successful completion of Global History and Geography 1 Honors or teacher recommendation**

This course is designed for honor students in social studies and involves projects as well as the development of critical thinking and writing skills. This course focuses on the modern world after 1750. Events are studied through conflicting ideologies and every-changing geopolitical patterns. Understanding of concepts associated with the modern world is reinforced through the application of various skills developed in previous social studies courses.

## AP World History

**Credit: 1 unit**

**Grade: 10**

**Prerequisites: Successful completion of Global History and Geography 1 Honors and/or teacher recommendation**

This is a college-level course in World History. Students are required to work on an advanced level. Students will develop greater understanding of the evolution of global processes and interactions among different types of societies and regions. This understanding is advanced through historical thinking skills. The course begins with 1200 C.E. to present history. The skills necessary to be successful in AP World History require a strong knowledge of Global History and Geography 1 work ethic, and time management skills. The awarding of college credit depends upon the student's score on the examination and the requirements of the college the student chooses to attend. Students take the AP exam in May. *There is a cost associated with the AP exam.*

# Social Studies

## United States History and Government

**Credit: 1 unit**

**Grade: 11**

**Prerequisite: Global History and Geography 2**

This course follows a chronological format with emphasis on the development of political, social, technological and economic institutions within the American experience.

## AP United States History

**Credit: 1 unit**

**Grade: 11, 12**

**Prerequisites: Successful completion of Global History and Geography 2 and teacher recommendation**

This is a college-level course in American History. Students are required to work on an advanced level. The course follows a chronological format with emphasis on the development of political, social, technological and economic institutions within the American experience. All students in the course take the Advanced Placement (AP) exam in May. The awarding of college credit depends upon the student's score on the examination and the requirements of the college the student chooses to attend. *There is a cost associated with the AP exam.*

## AP United States Government and Politics

**Credit: 1 unit**

**Grade: 12**

**Prerequisites: AP US History or US History and Government and teacher recommendation.**

This is a college-level course designed to prepare active citizens to fully participate in our politics. A strong interest in reading and strong writing skills are necessary for success. Regular assessments are modeled after the AP Exam and will prepare students for the required AP exam in May. This course is grounded in the Constitution and will build skills that will give students an understanding of the ongoing experiment that is the American Republic. We will read several Federalist Papers to understand the principles at play in our government. With that understanding we will study a canon of major US Supreme Court cases. Students will be able to connect Constitutional principles to current relevant political, economic, and social issues and policies. Completing this course will fulfill the graduation requirements for both Participation in Government and Economics. There is a 5 hours community service requirement for all seniors and will be coordinated through this class. *There is a cost associated with the AP exam. The awarding of college credit depends on the student's score on the examination and the requirements of the college the student plans to attend.*

## Economics

**Credit: 1/2 unit**

**Grade: 12**

**Prerequisite: United States History and Government.**

This one-semester course focuses on various micro-and macro-economic concepts and issues, including supply and demand, business organizations, markets, and the role of government in the economy. Attention is also given to investments and a variety of consumer issues. There is a five hour community service requirement for all seniors and is coordinated through this class. *Passing this course is required for graduation.* There is a final exam worth 25% of the overall grade in this class.

# Social Studies

## **SUPA ECN 203 Economics (Syracuse University Project Advance) (3 credits)**

**Credit: 1/2 unit**

**Grade: 12**

**Prerequisites: United States  
History and Government and  
teacher  
recommendation**

This one-semester course focuses on the advance study of economics, including micro– and macro– economics. Students are required to work on an advanced level. This is a college course taught through the Project Advance program at Syracuse University. Successful completion of the course may earn the student three (3) college credits and/ or exemption from a college course. Five (5) hours of community service are required for all seniors in Economics and Participation in Government. This course fulfills the Economics graduation requirement. *There is a tuition cost for enrollment in SUPA courses.* There is a final exam worth 25% of the overall grade in this class.

## **SUPA PST 101 Public Studies (Syracuse University Project Advance) (3 credits)**

**Credit: 1/2 unit**

**Grade: 12**

**Prerequisites: United States  
History and Government and teacher  
recommendation**

This one-semester course is a team, project based format. Teams will study societal public issues and policies. Teams will research, analyze and develop a resolution to resolve their selected issue. The final exam is a written Memo; there are no tests. This course will focus on career and college skills in an authentic process. This is a college course taught through the Project Advance Program at Syracuse University. Successful completion of the course will earn the student three (3) college credits. Five (5) hours of community service are required for all seniors in this course. This course fulfills the Participation in Government graduation requirement. *There is a tuition cost for enrollment in a SUPA course.*

## **Participation in Government: Law Studies**

**Credit: 1/2 unit**

**Grade: 12**

**Prerequisite: United States  
History and Government**

This one-semester course encompasses criminal, civil and constitutional law with a focus on a wide range of contemporary issues. Students will develop an understanding of United States laws, our legal system and their impact on society. Through the investigation of real world situations and current events, critical reasoning skills will be utilized to explore how court cases and legal decisions play an important role in creating change. Mock trials may be incorporated into the classroom to help students understand the legal process in action. Professionals in the legal field will be utilized for topics of special interest. There is a rigorous final project in place of a final exam. *Passing this course is required for graduation.*

## **Psychology**

**Credit: 1/2 unit**

**Grade: 11, 12**

**Prerequisite: Global History  
and Geography 2**

This half-year elective course will cover a great deal of information, all of which revolves around your development. Each unit is designed to provide you with the information to develop life-long skills, and insight into your thinking of the world around you. We will have a variety of assignments, both individual and collaborative. Your participation and curiosity is essential to your success. Mature, sensitive subjects such as, but not limited to, psychological disorders, suicide, alcohol and other drugs, addictions, are discussed and covered in the course.

## **AP Psychology**

**Credit: 1 unit**

**Grade: 11, 12**

**Prerequisite: Global History  
and Geography 2**

This course will enrich students who want to pursue a STEM education, nursing or teaching. AP Psychology can increase student involvement in a STEM career using the science learned in psychology (for example the scientific method, use of empirical data, use of statistics, experimentation, applied research, etc). The scientific method is used in Psychology to test hypothesis and develop theories. Psychology is a prerequisite course to pursue careers in the health field and education. *There is a cost associated with the AP exam.*

# Social Studies

## Sociology

**Credit: 1/2 unit**

**Grade: 11, 12**

**Prerequisite: None**

This elective course focuses on the study of society and how people react in collective situations. It covers topics including the family, social interactions, socialization, group behavior, and power and inequality. Final assessment will be a teacher created final exam.

## SUPA SOC 101 Sociology (Syracuse University Project Advance) (3 credits)

**Credit: 1/2 unit**

**Grade: 12**

**Prerequisites: Successful completion of United States History and Government and both Global History and Geography and United States History and Government Regents**

This course introduces C. Wright Mills' classic notion of "the sociological imagination" and the promise of sociology, and encourages students to see and think about the social world, themselves, and the relations between themselves and the social world in new ways. This course is a great extension of the general Sociology / Psychology for college credit, emphasizing analytic reading and concepts. The readings are based on research studies in an area of sociological investigation. It is a writing based course, four short papers will comprise your grade. This college course is taught through the Project Advance Program as Syracuse University (SUPA.) Successful completion of this course may earn the student three college credits and/or exemption from a college course. There is a tuition cost for the enrollment in a SUPA course. *This course will be offered every other year.*

## Oral History

**Credit: 1/2 unit**

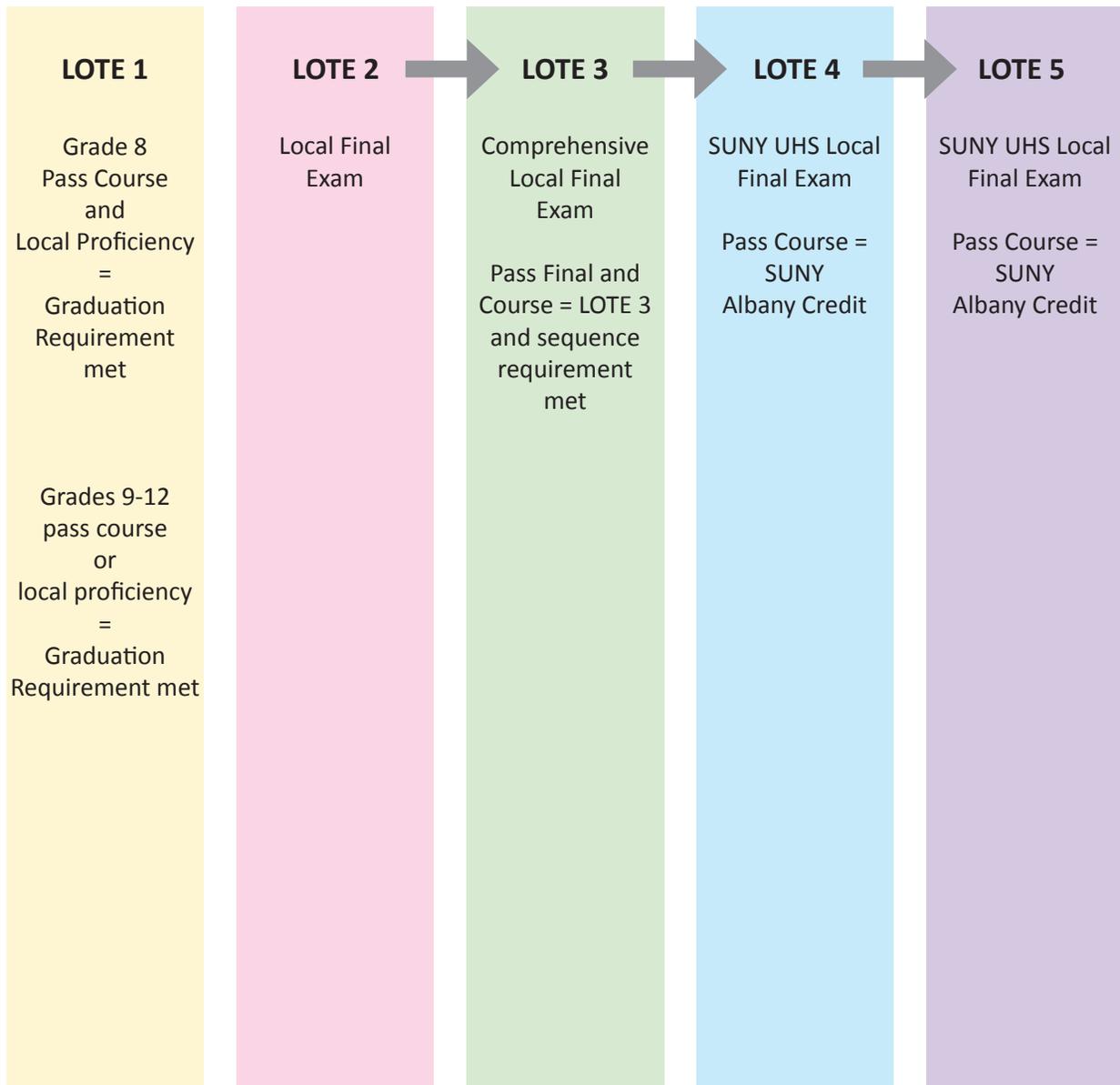
**Grade: 9 (with teacher approval),  
10, 11, 12**

**Prerequisites: None**

The goal of this course is to create a school archive that encompasses family, school, and local history along with a variety of historically important topics. During the course of 1 semester, students will learn the basics of oral history and develop the skills needed to conduct a good interview. Following the initial background information, students will go out into the field to research/interview for their class projects. The first marking period will entail a family and school history topic, while the second marking period students will be creating a local history project. Students will then have the choice of an important historical topic. Students will be required to work collaboratively and independently. The final project will be presented to a public audience and stored in the school archives. Final assessment is the choice of a historical topic project.

# World Language

## World Language LOTE (Language Other Than English) Requirements



# World Language

## Spanish 1

**Credit: 1 unit**

**Grade: 8, 9, 10, 11, 12**

**Prerequisite: None**

The Spanish curriculum includes: Introduction to basic reading, listening, speaking and writing skills, introduction to basic grammatical concepts in the Spanish language, emphasis on the communicative approach, stressing common daily vocabulary, which satisfies Checkpoint A of the communicative objective, introduction to Spanish culture, its people and customs. Department Exam: Checkpoint A. *This course fulfills the graduation requirement in World Language.*

## Spanish 2

**Credit: 1 unit**

**Grade: 9, 10, 11, 12**

**Prerequisites: Successful completion of Spanish 1**

The Spanish 2 curriculum includes: Further development of listening, writing, reading and speaking skills, of the communicative objective of the New York State Syllabus, introduction and practice of fundamental grammatical concepts, strong emphasis on vocabulary build-up through vocabulary, word explanations and word groupings, continuing study of Spanish culture.

## Spanish 3

**Credit: 1 unit**

**Grade: 10, 11, 12**

**Prerequisites: Successful completion of Spanish 2**

The Spanish 3 curriculum includes: Development of stronger, refined reading and comprehension skills, further development of speaking and communicative skills, mastery of fundamental grammatical concepts, continuation of strong vocabulary build-up, an overview of the Spanish language and culture, development of refined writing skills through composition, preparation for the comprehensive exam in June. Department Exam: Checkpoint B.

## SUNY Spanish 4 (SUNY Albany, ASPN 200) (4 credits)

**Credit: 1 unit**

**Grade: 11, 12**

**Prerequisites: Completion of Spanish 3 and/or recommendation of the Level 3 teacher**

This course provides students with a thorough review of Spanish grammar, language and culture at the Beginning-Intermediate Level. Students expand their linguistic and cultural knowledge through communicative activities, various selected readings, guided grammatical exercises, pre-recorded listening activities, films, and guided Internet activities. Students intensify their study of the form of the Spanish language as it relates to function. Students also have the opportunity to earn four (4) SUNY Albany college credits as an option in this course. Final Exam: SUNY Albany UHS approved. *There is a tuition cost for enrollment in SUNY courses.*

## SUNY Spanish 5 (SUNY Albany, ASPN 201) (4 credits)

**Credit: 1 unit**

**Grade: 12**

**Prerequisites: Completion of Spanish 4 and/or recommendation of the Level 4 teacher**

This course provides a thorough review and continued acquisition of the Spanish language and culture at the Intermediate Level. Students expand their linguistic and cultural knowledge through selected readings, guided grammatical exercises, communicative activities, recorded listening activities, films and guided Internet activities. Students increase their knowledge and understanding of and gain insight into a culture other than their own. Students also have the opportunity to earn four (4) SUNY Albany college credits as an option in this course. Final Exam: SUNY Albany UHS approved. *There is a tuition cost for enrollment in SUNY courses.*



# World Language

## Latin 1

**Credit: 1 unit**

**Grade: 8, 9, 10, 11, 12**

**Prerequisite: This course is taught in the High School**

Students will study basic Latin syntax, inflections, and vocabulary by usage in Latin passages. Students will use their knowledge of these concepts to develop reading skills in Latin. Daily reinforcement of the readings through engaging activities will strengthen students' reading, writing, and speaking proficiency. Word study is related to derivatives and Latin phrases in English. Ancient Roman history and culture will be taught through the Latin stories read in class: thematic units include Roman family and housing, Roman social classes, ancient education, and the foundation myths of Rome. This course is geared towards satisfying the Checkpoint A benchmarks of the New York State syllabus. Latin is taught using a comprehensible input-based approach to language acquisition. This course fulfills the graduation requirement in World Language.

## Latin 2

**Credit: 1 unit**

**Grade: 9, 10, 11, 12**

**Prerequisite: Successful completion of Latin 1 or teacher recommendation**

The Latin 2 curriculum includes: Further development of listening, writing, reading and speaking skills, which satisfies Checkpoint B of the communicative objective of the New York State Syllabus, greater emphasis on reading comprehension skills, introduction and practice of fundamental grammatical concepts, strong emphasis on vocabulary build-up through vocabulary, word explanations and word groupings, continuing study of Latin culture. Department Exam.

## Latin 3

**Credit: 1 unit**

**Grade: 10, 11, 12**

**Prerequisites: Successful completion of Latin 2**

Students continue the study of Latin through a comprehensible input-based approach, while learning the Checkpoint B benchmarks of the New York State Syllabus. Topics of discussion include Roman coming of age rituals, the eruption of Mount Vesuvius, various myths, and authentic ancient texts including inscriptions and epigrams. Students learn grammatical concepts such as indirect statements and subjunctives. Students analyze the connection of modern society to antiquity. Students will take the CAWNY Checkpoint B Regents Sequence Latin exam in June.

## SUNY Latin 4 (SUNY Albany, ACLL 101) (4 credits)

**Credit: 1 unit**

**Grade: 11, 12**

**Prerequisites: Successful completion of Latin 3**

This course provides students with a thorough review of Latin grammar, language and culture at the Beginning-Intermediate Level. Students expand their linguistic and cultural knowledge through communicative activities, various selected readings, guided grammatical exercises, listening activities, films, and guided Internet activities. Students intensify their study of the form of the Latin language as it relates to function. Students also have the opportunity to earn four (4) SUNY Albany college credits as an option in this course. Final Exam: SUNY Albany UHS approved. *There is a tuition cost for enrollment in SUNY courses.*

## SUNY Latin 5 (SUNY Albany, ACLL 201) (3 credits)

**Credit: 1 unit**

**Grade: 12**

**Prerequisites: Successful completion of Latin 4**

This course will provide a thorough review and continued acquisition of the Latin language and culture at the Intermediate Level. Students will expand their linguistic and cultural knowledge through selected readings, guided grammatical exercises, communicative activities, listening activities, films, and guided Internet activities. Students will also increase their knowledge and understanding of a culture other than their own. Students also have the opportunity to earn three (3) SUNY Albany college credits as an option in this course. Final Exam: SUNY Albany UHS approved. *There is a tuition cost for enrollment in SUNY courses.*

# World Language

## Italian I

**Credit: 1 unit**

**Grade: 9, 10, 11, 12**

**Prerequisite: none**

The Italian curriculum includes: Introduction to basic reading, listening, speaking and writing skills, introduction to basic grammatical concepts, in the Italian language, emphasis on the communicative approach, and stressing common daily vocabulary. *This course fulfills the graduation requirement in World Language.*

## Italian 3

**Credit: 1 unit**

**Grade: 10, 11, 12**

**Prerequisites: Successful completion of Italian 2**

The Italian 3 curriculum includes: Development of stronger, refined reading and comprehension skills, further development of speaking and communicative skills, review of major grammatical concepts, continuation of strong vocabulary build-up, complete overview of the Italian language and Italian-speaking culture, development of refined writing skills through composition, preparation for the comprehensive exam in June. Department Exam: Checkpoint B.

## SUNY Italian 4 (SUNY Albany, AITA 103) (4 credits)

**Credit: 1 unit**

**Grade: 11, 12**

**Prerequisites: Successful completion of Italian 3**

This course provides students with a thorough review of Italian grammar, language and culture at the Beginning-Intermediate Level. Students expand their linguistic and cultural knowledge through communicative activities, various selected readings, guided grammatical exercises, pre-recorded listening activities, films, and guided Internet activities. Students intensify their study of the form of the Italian language as it relates to function. Students also have the opportunity to earn four (4) SUNY Albany college credits as an option in this course. Final Exam: SUNY Albany UHS approved. *There is a tuition cost for enrollment in SUNY courses.*

## SUNY Italian 5 (SUNY Albany, AITA 104) (4 credits)

**Credit: 1 unit**

**Grade: 12**

**Prerequisites: Completion of Italian 4**

This course provides a thorough review and continued acquisition of the Italian language and culture at the Intermediate Level. Students expand their linguistic and cultural knowledge through selected readings, guided grammatical exercises, communicative activities, recorded listening activities, films and guided Internet activities. Students increase their knowledge and understanding of and gain insight into a culture other than their own. Students also have the opportunity to earn four (4) SUNY Albany college credits as an option in this course. Final Exam: SUNY Albany UHS approved. *There is a tuition cost for enrollment in SUNY courses.*

# Course Selection List

This listing is designed for students/parents/guardians to use in planning course selections.  
The availability of courses is based on minimum student enrollment.

All **bolded** courses may be eligible for college credit. All have specific requirements for earning the credit.

## **ART**

Advanced Art 1  
Advanced Art 2  
Advanced Media Arts 1  
Advanced Media Arts 2  
Advanced Studio in Clay 1  
Advanced Studio in Clay 2  
**AP Art History**  
Drawing and Painting  
Digital Rendering  
**AP Portfolio Preparation**  
Art in Culture  
Studio in Clay 1  
Studio in Clay 2  
Studio in Media Arts/Digital Photo

## **Business, Finance and Computer Science**

Banking and Finance  
Business and Criminal Law  
Business Communications  
Business Ownership (DECA)  
Career and Financial Management  
Cyber Security  
Game Design  
IT Essentials (Cisco)  
Principles of Accounting 1  
Principles of Business Mgmt. Banking and Finance Manager  
Principles of Business Mgmt. Banking and Finance  
Supervisor  
Principles of Business Mgmt. – Ownership  
Principles of Business Mgmt. – Retail  
Principles of Marketing  
Python 1  
Python 2  
Retail Management I  
Retail Management II  
Sport and Entertainment Mgmt. I  
Sport and Entertainment Mgmt. II  
Spreadsheet Management  
Student Activity Accounting 1  
**SUNY OCC BUS 101 Introduction to Business**  
**SUPA Accounting**  
Web Design I

# Course Selection List

## Career and Technical Education

Automotive Technology Applications  
Introduction to Aviation and Aerospace  
Aviation and Aerospace 1  
Aviation and Aerospace 2  
Child Development and Psychology  
Construction Technology 1  
Construction Technology 2  
Cosmetology 1  
Cosmetology 2  
Culinary Arts 1  
Culinary Arts 2  
Design and Drawing for Production/Intro to Engineering  
Design (DDP/IED)  
Introduction to Electricity and Electronics  
Film History  
Food and Nutrition  
Intro. to Automotive Technology  
Intro. to Aviation and Aerospace  
Movie Production and New Media  
Multi-Camera Studio Productions  
Production Systems  
Residential Systems  
School-Age Psychology  
**SUNY OCC ATC 103 Automotive Tech Fundamentals**  
**SUNY OCC EDU 182: Child Growth and Development**  
**SUNY OCC EDU 156/157/185: GETP**  
**SUNY OCC EDU 180 Early Childhood Education:**  
**An Introduction**  
**SUNY OCC BMC 101 Intro to Mass Communication**  
**SUNY OCC MET 161 Engineering Drawing**  
Television History  
TV News 1A  
TV News 1B  
TV News 2A  
TV News 2B  
TV News 3A  
TV News 3B  
TV News 4A  
TV News 4B

## Career and Technical Education at BOCES

Automotive Collision Technology  
Health Occupations  
Heavy Equipment Repair, Operation & Diesel Technology  
Laboratory Technology  
Physical Therapy  
Welding  
**New Visions:** Medical Professions, Criminal Justice  
Professions, Engineering Professions

## English

College Prep English  
Creative Writing  
English 9  
English 9 Honors  
English 10  
English 10 Honors  
English 11  
English 12

## The Capstone Experience

### EWL/ELA

**SUNY OCC COM 210 Public Speaking**

**SUNY OCC ENG 103 & 104**

Intro to Theatre  
Yearbook 1  
Yearbook 2  
Yearbook 3  
Yearbook 4



# Course Selection List

## Mathematics

Advanced Topics with Algebra II

Algebra II

**AP Calculus**

**AP Computer Science A**

**AP Computer Science Principles**

**AP Statistics**

**Business Math**

Computer Programming 1

Computer Programming 2

Geometry

Algebra I Regents

Geometry Regents

Geometry Regents Honors

Algebra II Regents

Algebra II Regents Honors

**SUNY OCC MAT 118 SUNY Exploring Statistics**

**SUNY OCC MAT 143 Pre-calculus with Trigonometry**

## Music

**AP Music Theory**

Chorale

Concert Band

Concert Band/Choir Combo

Mixed Choir

Music Theory

Wind Ensemble

Wind Ensemble/Chorale Combo

## Physical Education

PE 09/10

PE 11/12

PE Excel

## Health

Health Education

## Science

Anatomy and Physiology

Chemistry Foundations

Chemistry Regents

Chemistry Regents Honors

Physics Regents

Earth Science Regents

Earth Science with Honors

Environmental Science

Forensic Science

Living Environment Regents

RxeSearch – An Education Journey

**SUNY ESF The Global Environment**

**SUNY ESF: Special Topics in Research**

**SUNY BIO 121/123/124 Biology**

**SUPA CHE 106/107 & 116/117 Chemistry**

**SUPA CHE 113 Forensic Science**

**SUPA PHY 101/102 Physics**

# Course Selection List

## Social Studies

AP African American Studies

**AP Psychology**

**AP United States History**

**AP United States Government & Politics**

**AP World History**

Economics

Global History and Geography 1 Honors

Global History and Geography 2

Global History and Geography 2 Honors

Global History and Geography 1

Oral History

Participation in Government: Law Studies

Psychology

Sociology

**SUPA ECN 203 Economics**

**SUPA PST 101 Public Studies**

**SUPA SOC 101 Sociology**

United States History and Government

## World Language

Italian I

Latin 1

Latin 2

Latin 3

Spanish 1

Spanish 2

Spanish 3

**SUNY Latin 4**

**SUNY Latin 5**

**SUNY Spanish 4**

**SUNY Spanish 5**

## High School Courses taught in the Middle School

Algebra Regents

Latin 1

Living Environment

Spanish 1

Studio in Art





# CAREER PATHWAYS



Finding  
Your  
Future