

# Curriculum Handbook

## A Message to Our Students

This Curriculum and Course Planning Guide has been prepared to provide a general overview of the courses and graduation requirements at West Seneca East and West Seneca West High Schools. We are confident this will assist you and your parents when you meet with your School Counselor to develop a program of study which best meets your needs and interests. Additional information on all of our courses can be obtained by contacting your counselor. We would also suggest you seek out the appropriate teachers in order to obtain more information about specific courses. Keep in mind that the only bad question is the one not asked. Strive to become all that you can be, and take full advantage of our curriculum offerings. We hope that this guide will assist you in developing your potential to the fullest while attending East and West Seneca High Schools.

Jason Winnicki, East Senior Principal  
John S. Brinker, West Senior Principal



## West Seneca Central Schools Mission Statement

The mission of the West Seneca Central School District is to provide a diversified educational program which will produce literate, caring, ethical, responsible, and productive citizens who are capable of adapting to change.

Updated January 2025

## **Report of Grades**

Students are graded numerically four times during the school year. Report cards are available via Parent

Portal at the end of the 10th, 20th, 30th and 40th week of school. Report of grades is a summary of achievement. Sixty-five (65%) is the minimum passing grade. Individual teacher comments will be on the report card. Parents are invited to confer with the school at any time. Passing a Regents exam does not entitle a student to course credit. A student must achieve a final course average of 65% or higher to be awarded course credit. If a student drops a course after 5 weeks for a semester course or after the 10 week mark for a full year course, a DP (drop Pass) or DF (drop Fail) will be designated on the transcript.

The Honor Roll is based on quarterly averages.

High Honor Roll • 95.00 -100 \* Honor Roll • 90.00 -94.99 \* Merit Roll • 85.00-89.99

## **Calculation of GPA /Rank/Graduation Honors**

All class members eligible to graduate in June are included in the ranking computed at the end of the 6th semester. Class ranking is determined using a weighted grade point average (GPA).

Students transferring into the district in their senior year are not ranked. Subjects of 1/2 (Carnegie credit) are given a factor 1; 1 unit a factor of 2, 2 units a factor of 4, etc. The sum of the adjusted scores is divided by the number of scores. Students will be given both a weighted and unweighted GPA. A weight of 1.05 is used for Advanced Placement/SUPA/UB Math courses (GMP V and VI); 1.03 is used for Enriched classes and UB Math courses (GMP III and IV). Exam scores are 20% of the final course average. GPA calculation will include Physical Education. A notation of DP (drop pass) or DF (drop fail) is used if the student drops a course after the first 5/10 weeks respectively. *\*This is the most current information and is subject to change.* Graduation Honors are calculated using the student's Cumulative GPA and the first three marking periods of senior year.

The division of honors is as follows:

Magna Cum Laude (MCL) 99-93.6 \* Cum Laude (CL) 93.5-89.6 \* Honors (H) 85-89.5

## **Early Release/Late Arrival/Open Campus Policy**

The administration, faculty and staff of East and West encourage all students to take full advantage of the courses and programs offered during their four years. The State Education Department has established guidelines concerning the school day and the early release of students to participate in activities that are properly supervised. In view of this, the following procedures regarding early release and late arrivals have been established:

1. All students, grades 9-11, must carry a minimum course load of six (6) credits, plus physical education, each year. It is recommended that all seniors carry a minimum course load of five (5) credits plus physical education.
2. Only seniors are eligible for an Early Release/Late Arrival

## **Advanced Placement/SUPA Courses**

Several academic courses prepare students to take the Advanced Placement (AP) Examination that is given in May of each year. These courses are designed for students who wish to be eligible to earn college credit while still enrolled in high school. Successful completion of the course, along with satisfactory results on the AP examination, can earn credit that will be accepted by colleges. All students enrolled in Advanced Placement courses are expected to take the Advanced Placement examination in May. Syracuse University Project Advanced (SUPA) gives a final exam at the conclusion of the course. Because AP/SUPA courses have the same difficulty level as that of first year college offerings, it is recommended that students considering Advanced Placement have a sound academic background, the recommendation of the teacher, and a willingness to work diligently.

The selection criteria for assessing a student's eligibility for enrollment in college courses may include scores on Regents Exams; scores on standardized tests; teacher comments from all classes; report card grades from all courses; and the student's attendance record. Prospective AP/SUPA students and their parents should realize that these courses are quite challenging, and require more time and effort in the areas of preparation and study. Enrollment in college classes means that the students are willing to make a serious commitment throughout the school year.

## **Drop/Add Procedure**

The West Seneca Central Schools recognize that sometimes the need arises to request a change in a student's academic schedule. With that in mind, both East and West Senior High Schools will be utilizing the following Drop/Add timeline and procedure.

### **For Full Year and Semester 1 Courses:**

**Weeks 1-2:** There will be no withdrawals from a course (commonly referred to as dropping a course). This is an opportunity to try the courses as initially selected.

**Weeks 3-4:** A student may request to drop or add a course by utilizing the appropriate request form. Each request will be considered and examined in order to be sure there are no detrimental effects to the student schedule (falling below credit minimum, meeting graduation requirements, etc.).

**Week 5 and Beyond:** Course Drop/Add requests will only be considered in the most extenuating circumstances, with the Building Principal making the final determination.

### **For Semester 2 Courses:**

The procedure described will apply during the first several weeks of the second semester.

## Student Services Department

The West Seneca East and West Student Services Departments, which includes the School Counselors, Psychologists and Social Workers, work with the school community to help students maximize their high school experience. Student Services coordinates a number of programs available to all students and their parents, including parent-teacher conferences, career awareness programs, college applications and scholarship information, student orientations, academic and personal counseling and course scheduling.

## Special Education Programs

Special Education services are offered at both High Schools.

## Academic Eligibility Policy

The West Seneca Central School District extends the privilege of extra-curricular activities to students who recognize their obligation to themselves, their co-participants and their school community while striving for academic excellence. Students must adhere to the district's policy regarding academic co-curricular eligibility, attendance, and good citizenship in and out of the classroom.

Extracurricular activities are defined as any school function NOT grade dependent (e.g.: athletics, intramurals, school musicals, marching band and all clubs/group meetings, activities, tryouts and performances held before or after school). The Extra-Curricular Policy will affect participation in all extracurricular programs and activities.

### Standard

1. The eligibility standard will apply to students in grades 7-12.
2. Students are considered eligible when they have a passing average in all subjects at each time that eligibility is determined (typically every 5 weeks). Students transferring into the district at any time shall have a clean slate for eligibility purposes.
3. Students who are failing **one course** (exclusive of Physical Education) at each 5-week marking period will be placed on **probation**, but will retain eligibility. This includes being able to practice and compete in contests and activities.
4. Students who are failing **two or more courses, or Physical Education (for Athletics)** at each 5-week marking period will automatically be **ineligible** to participate in any interscholastic contests, intramurals, or any extracurricular activities during the next 5-week period. Incomplete grades that are not changed to a passing grade within ten

school days after the report cards and/or progress reports are issued will be considered failing grades for eligibility purposes.

### **Terms of Probation**

1. Probation is the 5-week time period where a student must seek remediation with the teacher of his/her failed/INC course(s).
2. Each student on probation will be issued a West Seneca Eligibility Evaluation Form from his/her coach/advisor. Students on probation or ineligible students must seek remediation with the teacher of his/her failed/INC course(s) every day.
3. Teachers must sign-off on the eligibility form each time verifying that the student sought remediation that day(s).

### **Restoring Eligibility**

1. At the end of the second full week of remediation, an ineligible student may have their eligibility reinstated by submitting proof of successful remediation using the West Seneca Academic Eligibility Evaluation Form.
  - a. In order for this to occur the student must show the proper motivation and work ethic/effort to be successful in class, and/or elevate his/her grade to a passing grade of 65 or higher.
  - b. An ineligible student may establish eligibility at any time after the second full week of remediation. All students on probation will remain on probation for the entire five week period until a new eligibility list has been issued.
  - c. Students forging his/her teacher's initials/signature will lose his/her privileges to participate in the extracurricular activity for the remainder of the current sports season/semester.

### **Procedure**

1. Activity advisors/coaches are required to generate a student roster in PowerSchool immediately following the first practice of the season or first activity meeting.
2. Activity advisors/coaches are required to review their student members' standing and determine eligibility at five week increments beginning at week five and concluding at week 35 (as per the academic calendar).
3. Activity advisors/coaches will meet with ineligible students and/or students on probation and will be given the West Seneca Academic Eligibility Form.
4. Activity advisors/coaches will contact the student's parent/guardian to inform them of the terms of their probation/ineligibility.
5. Activity advisors/coaches will submit a list to administration of ineligible students and students on probation.

6. A letter to the parents/guardians will be generated from building administration confirming the status of the student's eligibility.

### **Appeal Process**

A parent/guardian may request an appeal by submitting written notification to the building principal no more than five school days after receiving notification from the school. The Academic Eligibility Committee consists of: a building administrator, athletic director, coach or advisor and the teacher(s) whose class(es) are being failed. The committee will have the authority to remove students from the ineligibility list if it is determined there is adequate cause for such action due to a student's ability or recent extenuating circumstances.

Furthermore, the building principal may exclude a student from participation for a period of time if he/she deems necessary based on the severity and/or chronic nature of academic, behavioral or attendance difficulties.

## **East and West Library Media Center**

Each Library Media Center is staffed with a full time, certified Librarian to offer support for students in a range of ways. They provide vital curricular support, teaching on topics such as information literacy, critical thinking, as well as critical research strategies. These skills apply across the curriculum and can be supported in all classes. Additionally, the Librarians maintain a rich and diverse collection of materials to meet both the scholarly and recreational reading needs of the students.

The West Seneca school libraries have resources on site, but also provide many important and valuable resources through their web presence. Students have 24/7 access to a wide variety of materials in the form of eBooks, databases, and other electronic resources and tools. Many of these resources offer helpful features like read-aloud functionality, language availability, and on-demand word definitions, to assist students with understanding and processing the content. There are also fiction titles if a student wants to enjoy their book on their phone or personal device.

In addition to being great gateways to resources on colleges and careers, our high school libraries offer students the tools and instruction needed to prepare them for life beyond high school. By encouraging lifelong learning, strong reading skills and the ability to find, evaluate and utilize information, we prepare students for the challenges of the 21<sup>st</sup> century.

Both libraries offer access to Maker materials as well, giving students a variety of ways to tinker, explore, and learn through hands-on use of materials. Recognizing that students have a variety of needs and learning styles, the WS high school libraries strive to provide a variety of materials and access points to learning.

## **School Resource Officer**

The School Resource Officer (SRO) Program places a uniformed officer in each of the high schools in an effort to create and maintain a safe learning environment. The SRO's first duty is that of a sworn police officer, investigating crimes and activities associated with criminal behavior. However, SRO's are not "security guards", but rather "police officers at school" who promote a positive image through interaction with students, parents, teachers and administrators." The officers take a proactive approach with the schools to identify youth at risk, try to intervene with appropriate action plans, build healthy and trusting relationships and encourage a forward looking approach to deal with the pressures today's young people face.

## **Parent/Student Portal**

PowerSchool Parent/Student Portal gives parents access to information including attendance, grades, detailed assignment descriptions and lunch balance. Everyone stays connected: Students stay on top of assignments; parents are able to participate more fully in their student's progress, and teachers can use their gradebook to communicate with parents and students. Because this information is available online, progress reports and report cards are not mailed home. If you do not have access to technology, contact your school's Student Services department. The parent portal can be accessed through [www.powerschool.wscschools.org/public](http://www.powerschool.wscschools.org/public). Students can use their West Seneca login to access the student portal once their parent completes the user agreement via the parent portal.

## **Student Support**

Adolescence can be an exciting time for new experiences. It can also be a time of stress and challenge both at school and at home. East and West Senior offers a variety of resources to help students during this unique period. The School Counselors, Social Workers, and School Psychologists are available to meet with students on an individual basis.

## **HOME-SCHOOL COMMUNICATION**

Parent-Teacher conferences are also an integral part of the Student Services Department's program. These conferences help to establish, improve and maintain communication between the school, the students and their parents. Any parent, who is interested in scheduling a conference with either the teacher or counselor, should contact their student's counselor or teacher. Teachers can also be easily reached via email. All email addresses are listed on the District website or can be accessed through Parent Portal.

## **CAREER GUIDANCE**

Good planning and preparation are the keys to a successful future. The academic courses offered at East and West Senior help develop the skills that will open the doors to a successful career. Student Services utilizes the CHOICES program which is designed to help our students

with career interest inventories, the college search process, finding sources for financial aid and scholarships, and matching their aptitudes, abilities and interests with appropriate career areas. This is a web-based program and can be accessed from any computer or electronic device by logging in with Clever.

## **SCHOOL-TO-SCHOOL/SCHOOL-TO-CAREER**

Counselors also work very closely with upperclassmen on college and career plans. Programs related to the college application process and financial aid are sponsored annually by Student Services. Scholarship information is publicized through Family Connections, homeroom bulletins, announcements, via the WSCSD website and email list. The counselors meet with each student at least once a year to review the student's academic progress and to make plans for the following year. This process is further explained in the section that focuses on the "Course Selection Process".

## **Course Selection Process**

### **STEP ONE - Orientation of Courses**

Before scheduling an annual review with a counselor, there will be an opportunity to become familiar with all course offerings through a series of grade level orientation programs.

### **STEP TWO - Course Selection via Parent Portal**

Students and parents will initially request their courses online through the Parent Portal. Please be sure you are registered and active with Parent Portal. Teacher placement recommendations will be available via Parent Portal to assist with the selection process.

### **STEP THREE - The Annual Review**

During the annual review, the student's academic achievement and career interests will be discussed; the four year plan will be reviewed and adjusted as necessary. The list of courses requested will be reviewed and confirmed based on teacher/counselor recommendations and student interests.

### **STEP FOUR - Parent/Guardian Communication**

Course requests selected by parents and students can be viewed in the parent portal while the selection process is open. Student requests will be confirmed at the student's annual review with their counselor. Final requests will be available via parent portal.

*Student Course selections should be finalized by **June 2, 2025**. There will not be any changes made after this date.*



## **Participation in Graduation Ceremonies and Activities**

Any student who has satisfactorily completed all graduation requirements will be permitted to participate in the graduation ceremony and all related graduation activities of his or her graduating class subject to certain exceptions. Students may be prohibited from participating in the graduation ceremony or related graduation activities as a consequence of violating the District's Code of Conduct.

## **GRADUATION REQUIREMENTS**

Graduation Class is determined by when the student enters 9th grade.

### **TOTAL UNITS**

Regents Endorsement & Regents Diploma with an Advanced Designation.....22 units

### **CORE REQUIREMENTS**

English	4 units
Social Studies	4 units
Math	3 units
Science	3 units
Health	.5 unit
Art/Music	1 unit
Physical Education	2 units
World Language	1-3 units

### **TESTING REQUIREMENTS**

<u>Regents with an Advanced Designation Diploma</u>	<u>Regents Diploma</u>
Algebra 1	Algebra 1
Geometry	Physical or Living Science
Algebra 2	Global History
Earth Science, Chemistry or Physics	U.S. History
Living Environment/Biology	English Language Arts (ELA)
Global History	
U.S. History	
English Language Arts (ELA)	
World Language (Regents Equivalent)	

**Students must pass Regents Exams with a grade of 65% or an “E” (Exemption due to Covid 19) or a “SA” (Special Appeal due to Covid 19). West Seneca CSD recognizes Pathways 4 + 1, CDOS and Compensatory exam options where applicable.**

- Students must have 1 unit in World Language.
- Those students working toward a Regents diploma with Advanced Designation will need 3 units of credit and successful completion of the final exam in World Language. Students acquiring 5 units in Career & Technical Education or Arts may bypass the 3-unit requirement in World Language.
- New York State Science requirement for a:
  - Regents Diploma:
    - Pass one Regents exam in a Regents level course.
  - Regents Diploma with an Advanced Designation:
    - Pass two Regents exams – (1) Living, (1) Physical

## TYPES OF DIPLOMAS

Students may earn one of two types of diplomas: Regents Diploma or Regents Diploma with an Advanced Designation

Additional Honors/Endorsements:

- **Honors:** To earn a diploma with honors, a student must achieve an average of 90% on all required Regents examinations
- **Mastery in Math and/or Science:** Students who complete all coursework and testing requirements for the Regents Diploma with Advanced Designation, and who pass, with a score of 85 or better, three commencement level Regents examinations in mathematics and/or three commencement level Regents examinations in science, will earn a Regents Diploma with Advanced Designation, with an annotation of the diploma that denotes Mastery in Mathematics and/or Science, as applicable.
- **CTE:** Students successfully completing a Career and Technical Education program may be eligible for a Career and Technical Endorsement (CTE) on their Regents or Regents with an Advanced Designation Diploma
- **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.
- **Seal of Biliteracy:** The NYSSB is an award given that formally recognizes students who have attained a high level of proficiency in two or more world languages (one of which must be English) by high school graduation.

# Art

## • Academy of Visual Arts

The Discipline Based Art Education is an approach which broadens art education by integrating ideas and skills from art production, art history, art criticism, and aesthetics. Students will find their high school art courses have laid a foundation for a lifelong interest in art. By producing and examining works of art, students will engage in application of concepts, invention, critical thinking and self-expression. Some students will prepare a portfolio for scholarships and admission to colleges and art and design schools. It is the art program's plan to provide all students with a sequential study in the visual arts.



Our program goals are the following:

- develop a cumulative portfolio of artwork that will reflect the student's development
- enable students to develop their aesthetic sensitivity, creative potential, and self-esteem
- enable students to develop the necessary skills, knowledge, and attitudes for realizing their artistic potential
- stimulate positive attitudes toward art and artists in the student's school and the community at large
- Studio in Art can be used by any student to fulfill the NY state Art/Music graduation requirement

### **COURSE OFFERINGS**

<u>Course</u>	<u>Credit</u>	<u>Length</u>	<u>Type of Exam</u>
Studio in Art	1 unit	40 weeks	Local
Contemporary Art (West)	½ unit	20 weeks	Local
Drawing & Painting*	1 unit	40 weeks	Local
Drawing & Painting (Acad of Visual Arts)*	1 unit	40 weeks	Local
Art Portfolio Development***	1 unit	40 weeks	Local
Art Portfolio Development (Acad of Visual Arts)***	1 unit	40 weeks	Local
Advanced Placement Studio Art (Academy of Visual Arts)****	1 unit	40 weeks	AP
Computer Graphics I	½ unit	20 weeks	Local
Computer Graphics II**	½ unit	20 weeks	Local
Computer Design and Animation (East)	½ unit	20 weeks	Local
Photography I	½ unit	20 weeks	Local
Photography II	½ unit	20 weeks	Local
Printmaking (West)	½ unit	20 weeks	Local
Ceramics and Sculpture	½ unit	20 weeks	Local
Ceramics II	½ unit	20 weeks	Local
Interior Design (East)	½ unit	20 weeks	Local
Fashion Design (East)	½ unit	20 weeks	Local

\*Students are eligible to earn SUNY Erie credits for Drawing 1 (AT 200)

\*\*\*Students are eligible to earn SUNY Erie credits for Painting I (AT 210)

\*\*Students are eligible to earn SUNY Erie credits for Digital Art and Design (AT 260)

\*\*\*\*Students completing AP Studio can be eligible for AP credit or SUNY Erie Drawing I (AT200) and/or ECC Design I (AT230)

## Studio in Art

Credit: 1 Unit Length: 40 Weeks (Fulfills NYS graduation requirement)

This exciting class is an introductory, foundational art course for students in need of the NYS required Arts credit as well as for students pursuing future art courses or entrance into the Academy of Visual Arts. Students will develop an understanding of basic drawing and painting techniques, design fundamentals, critical analysis of art, as well as the lives and works of artists from history to the present. Students will explore the art of various cultures, period styles and techniques associated with them.

## Contemporary Art (West)

Credit: 1/2 Unit Length: 20 Weeks

This fun, introductory course allows students a broad study of contemporary art and design concepts including drawing, painting, photography, sculpture and printmaking at a basic level. This course will allow students to sample various art media while allowing flexibility for the non-art major.

## Drawing and Painting

Credit: 1 Unit Length: 40 Weeks

Prerequisite: Studio in Art

This course has been developed to provide an avenue of creative expression for those students who are serious about improving their rendering skills and painting techniques. Design, color theory, in depth study of landscape, still life, figure drawing, portraiture and fantasy are used as subject matter for studio work. In addition to creating unique personal artworks, students will explore historical and contemporary art movements and trends.

Advanced Studies Course through SUNY Erie: 3 college credits from SUNY Erie (AT 200 Drawing I). Must apply when you are taking the course to receive transcribed credit.

## Drawing and Painting (Academy of Visual Arts)

Credit: 1 Unit Length: 40 Weeks Prerequisite: Studio in Art, acceptance into Academy of Visual Arts

This course is an enriched art elective taken only by students accepted into the Academy of Visual Arts. Coursework will correlate to the experiences in Drawing and Painting with the addition of enriching activities. These will include field trips, local college visitations, guest speakers, more rigorous studio art experiences. Finished projects will be incorporated into the student's Academy of Visual Arts Portfolio.

Advanced Studies Course through SUNY Erie: 3 college credits from SUNY Erie (AT 200 Drawing I). Must apply when you are taking the course to receive transcribed credit.

## Art Portfolio Development

Credit: 1 Unit Length: 40 Weeks Prerequisite: Studio in Art, Drawing & Painting

Art Portfolio Development is for the serious and dedicated art student with possible career ambitions in mind. The year will concentrate on developing a professional art portfolio. Each person will have a portfolio ready to present for college admission at the end of the course. Observational drawing, conceptual art study, design topics and personal exploration are emphasized. The final exam will consist of the finished portfolio, a resume, and artist statement and portfolio review.

Advanced Studies Course through SUNY Erie: 3 college credits from SUNY Erie (AT 210 Painting I). Must apply when you are taking the course to receive transcribed credit.

### Art Portfolio Development (*Academy of Visual Arts*)

Credit: 1 Unit Length: 40 Weeks

Prerequisite: Studio in Art, Drawing & Painting

This course is an enriched art elective taken only by students accepted into the Academy of Visual Arts. Course work will correlate to the experiences in Art Portfolio Development with the addition of enriching activities. Some activity possibilities will include field trips, local college visitations, guest speakers, and more rigorous studio art experiences. The class will culminate with a portfolio adjudication.

Advanced Studies Course through SUNY Erie: 3 college credits from SUNY Erie (AT 210 Painting I). Must apply when you are taking the course to receive transcribed credit.

### Advanced Placement Studio in Art

Credit: 1 Unit Length: 40 Weeks

Prerequisite: Art Portfolio Development and Teacher Recommendation or enrolled in the Academy of Visual Arts

The Advanced Placement Studio Art Program enables a highly motivated student to do college level work while still in high school. As a very personal, independent, and instructor-guided art study, AP Studio is not based on a written exam. Instead, candidates submit a portfolio of work for evaluation in May. The digital portfolio will consist of personal artwork submitted to the College Board. Students will need to submit a portfolio in either 2-D Design or Drawing for professional review. Because of the intensity and quantity of work required, students must be willing to devote a considerable amount of time in and outside

of school to be successful. Supplies will need to be purchased for this course.

Students will be required to submit a portfolio for the AP exam in May. The AP exam fee is covered by the district. Students could also submit for SUNY Erie Advanced Studies course credit: 3 college credits for AT 200 Drawing I and/or AT 230 Design I. Must apply when you are taking the course to receive transcribed credit.

### Computer Graphics I

Credit: 1/2 Unit Length: 20 Weeks Prerequisite: Studio in Art

Computer Graphics is a fun course making use of professional grade software to create original artwork. Based on previously learned art concepts, students will work in a computer lab situation using the Adobe Creative Cloud software packages to design unique digital art pieces. The focus will include introductory use of Adobe Photoshop and other programs.

### Computer Graphics II

Credit: 1/2 Unit Length: 20 Weeks Prerequisite: Comp Graphics I

This course is designed with the serious digital artist in mind. Students will have an opportunity to work with cutting edge computer hardware in conjunction with the graphics industry standard software, Adobe Creative Cloud. This course is aimed at developing and applying technical skills, cultural awareness and digital illustration to building an understanding of the role a graphic designer plays. Students will apply their understanding of design concepts to solve visual problems, produce illustrations, and generate images suitable for advertising media and production. Major topics of the course include ad layout, typography, and communication design.

*Advanced Studies Course through SUNY Erie: 3 college credits from ECC (AT260 Digital Art & Design I). Must apply when you are taking the course to receive transcribed credit.*

### Computer Design & Animation (East)

Credit: 1/2 Unit

Length: 20 Weeks

Prerequisite: Computer Graphics I

This advanced Design course will help students build on computer, graphic art and design concepts previously learned in Computer Graphic I. Students will further their focus on visual literacy, expanding conceptual, aesthetic and visualization skills, as well as creative problem solving through exploration of a wide variety of commercially oriented projects. Hands-on tasks may include logo design, product design package design, illustration, character development, and basic animation techniques using the Adobe Creative Cloud.

### Digital Photography

Credit: 1/2 Unit

Length: 20 weeks

Prerequisite: Must be an upperclassmen grade 10, 11 or 12

This is a half year course that introduces the history of photography and the basic operations and functions of a DSLR camera including building an understanding of aperture, shutter speed, lighting, and composition. Students are introduced to the history of photography and basic camera functions as well as the photographic elements of art, the principles of design and artistic composition. Students will learn basic photo editing skills using the Adobe Creative Cloud. Students will explore a broad range of photography subjects.

### Digital Photography II

Credit: 1/2 Unit Length: 20 weeks Prerequisite:

Digital Photography

This is a half year course that builds upon the basic operations and functions of a DSLR camera including a more in-depth look at shutter speed, lighting, and creating their own compositions. Students will expand on their photo editing skills through

the use of Adobe Creative Cloud including Photoshop and Lightroom.

### Printmaking (West)

Credit: 1/2 Unit

Length: 20 weeks

Prerequisite: Studio in Art

This course will introduce students to printmaking techniques that can be used as a vehicle to visualize and communicate ideas. Artists use printmaking as an interdisciplinary medium within the idea of creating multiples in the art world. Students will be introduced to a brief history of printmaking and how contemporary artists use print techniques towards expression and communication. Students will also learn how prints are used outside of the art world including publication and commercial prints. Students will discuss technical as well as conceptual issues in the field of contemporary printmaking. By the end of the course students will be competent in identifying and creating various types of prints in both relief and serigraphy styles.

### Ceramics and Sculpture

Credit: 1/2 unit

Length: 20 weeks

Prerequisite: Must be an upperclassmen grade 10, 11 or 12

This semester course allows students to explore three-dimensional media and encounter historical figures and cultures that have had an impact on the development of ceramics and sculpture as an art form. Students will experience all aspects of the ceramic process from building, to firing, glazing and finishing. An emphasis will be placed on hand building techniques and student creativity in design. Projects will range from utilitarian to purely aesthetic artwork.

## Ceramics II

Credit: 1/2 unit Length: 20 weeks

Prerequisite: Ceramics and Sculpture

Ceramics II is a half-year course developed to provide the beginner ceramist with an opportunity to advance their skills learned in Ceramics & Sculpture. Students will further explore the pinch, coil, and slab building techniques that they learned about in Ceramics & Sculpture. Advanced Ceramics will shift the focus of student art works to a more creative design while still focusing on the craftsmanship and utility of the work. Students will also explore historical cultures that have impacted the technical and conceptual development of ceramics.

## Interior Design (East)

Credit: 1/2 Unit

Length: 20 Weeks

Prerequisite: Studio in Art

Interior design is an exciting profession that not only requires designers to be able to think creatively, but also to problem-solve. Interior designers are responsible for creating spaces for any structure, which may include a single-family home, corporate headquarters, restaurants and everything in

between. Students will explore design fundamentals and familiarize themselves with architectural and interior design concepts through a series of hands-on activities and projects. This course will explore space planning, lighting, materials, color theory, and furnishings. Students will design interior spaces where they will create a set of presentation boards that include: drawings, floor plans, elevations, materials, and furniture.

## Fashion Design and Illustration (East)

Credit: 1/2 Unit Length: 20 Weeks Prerequisite: Studio in Art

This is an advanced course aimed at developing students' knowledge and understanding of the principles and skills involved in fashion design, illustration, the fashion industry. Students will further develop an understanding of design principles, basic figure drawing, and fashion trends through a series of exciting hands-on tasks. Students will also study the history of fashion and period styles of clothing.

### **National Art Honor Society (NAHS)**

The National Art Honor Society is designed specifically for high school students in grades 9-12. In 1978, The National Art Education Association began the National Art Honor Society program to inspire and recognize students who have shown an outstanding ability and interest in art. The NAHS strives to aid members in attaining the highest standards in art, scholarship, character and service, and to bring art education to the attention of the school and community. Students who maintain a 90% or above composite Art average, and an 80% or above composite average for all other courses (excluding art) are eligible to join. Students must be enrolled in a Visual Arts class each semester to maintain membership in the National Art Honor Society.



# Academy of Visual Arts



The Academy of Visual Arts will be composed of students who demonstrate extraordinary ability and interest in the visual arts. The goal of the program is to provide students with a more mature understanding of visual concepts, enhance cultural awareness as well as develop the students' artistic abilities at a more sophisticated level. Students will have the opportunity to explore more challenging studio endeavors, participate in gallery and college visitations, be exposed to visiting artists as well as receive college credit. Interested students enrolled in Studio in Art or Drawing and Painting will be accepted into this enrichment program upon completing the application process and a portfolio review.

The Academy is supported by an Advisory Board which currently includes the following companies, organizations and colleges:

SUNY Fredonia • Chautauqua Institution • Villa Maria College • McGard, Inc • Brook Studio •  
West Seneca Central Schools • Daemen College • Hallwalls Contemporary Art Center •  
Buffalo State College • Buffalo and Erie County Public Library • AKG Museum • The Parlour • Valleykat Designs •  
University at Buffalo • Buffalo Schools •  
• Buffalo and Erie County Public Library

## ACADEMY COURSE SEQUENCE

•Four Year Program •

Five Units of Credit Toward Graduation

Academy students are required to take the following electives in addition to their Regents courses.

<u>Grade Level</u>	<u>Course</u>	<u>Credit</u>
Ninth Grade	Studio in Art	1 unit
Tenth Grade	Enriched Drawing & Painting*	1 unit
	Visual Art Elective (Computer Graphics I recommended)	½ unit
Eleventh Grade	Art Portfolio Development***	1 unit
	Visual Art Elective (Comp Graphics I or II recommended**)	½ unit
Twelfth Grade	Advanced Placement Studio****	1 unit

\*Students are eligible to earn SUNY Erie credits for Drawing 1 (AT 200)

\*\*Students are eligible to earn SUNY Erie credits for Digital Art and Design (AT 260)

\*\*\*Students are eligible to earn SUNY Erie credits for Painting I (AT 210)

\*\*\*\*All academy students have the option to take college level courses as part of the Academy during their senior year. They will have 4 different course options: 1. SUNY Erie Drawing I (AT200) 2. AP Drawing 3. SUNY Erie Design I (AT230) or 4. AP 2D Design. Seniors may elect to: 1. Earn SUNY Erie Drawing 1 AND submit for AP 2D for 6 credits 2. Earn SUNY Erie Design I AND submit for AP College Board Drawing for 6 credits 3. Submit for College Board Drawing AND AP 2D Design for 6 credits or 4. Earn SUNY Erie Drawing I and SUNY Erie Design I for 6 credits.

\*Graduation - Certificate of Studies Visual Arts in addition to Regents Diploma or Regents Diploma with an Advanced Designation

# Business

- Academy of Business & Finance
- Academy of Information Technology/Digital Media

Courses in business have a long history in American high schools. The courses have varied over time, but the goal of providing “realistic” and “relevant” instruction for students seeking business skills has not changed. Today, computer skills are vital for success.

The Business Department offers programs to students who are considering business as a career, to students who want a business education for personal use, and to those students who are planning to pursue a business program in college.

The Business Department will provide the students with the knowledge and skills needed for employment in business and the ability to continue study beyond high school. It will also provide the student with the knowledge, attitudes and skills needed by everyone to function effectively in our economic system.

Students taking our courses will apply all of the standards they are expected to learn through their academic core subjects. The strong emphasis on application, the linkages with the business community and the high standards established for the business curriculum will help students reinforce and learn concepts included in their Regents program.

Courses taken in clusters afford students an opportunity for in-depth exploration of a business program. These clusters can also be used to meet articulation agreements which provide students with college credit. Currently the Business Department has agreements with: SUNY Erie, Hilbert, Trocaire and Bryant and Stratton. For students interested in obtaining college credits, there are many courses you can take in the business department. See chart below for specific courses.

## ELECTIVE OFFERINGS

<u>Course</u>	<u>Credit</u>
Computer Skills 4Life	½ unit
Marketing	1 unit
*Business & Criminal Law	1 unit
Career & Financial Management	½ unit
Microsoft & Google Suites	½ unit
Think, Code, Create (Course taught at <a href="#">West</a> )	½ unit
Digital Design (Course taught at <a href="#">West</a> )	½ unit
West Seneca Designs - Business ( <a href="#">West</a> )	1 unit
East Designs ( <a href="#">East</a> )	1 unit

\* Advanced study college credit with SUNY Erie is available

Business & Criminal Law – PA 101 Introduction to Law (3 credits)

College and Career Portfolio - GS 111 College Success Skills (3 credits)

## Business and Criminal Law

Credit: 1 Unit      Length: 40 Weeks  
Grade 11 and 12 only

This course has relevance for all students because it introduces the legal rights and obligations that govern individuals in our society. A rich mixture of criminal law, combined with a strong foundation of business law, make the course especially relevant and useful in students' daily lives. Various topics for discussion include the basics of the law, including criminal, tort, contract, consumer, and property. Other topics include agency and employment, business organizations, wills and trusts, and other legal issues that will affect students as they make the transition into adulthood. A variety of techniques are used to enhance the course curriculum, including field trips, guest speakers, and mock trials.

*Advanced Studies Course through SUNY Erie: 3 college credits.  
(PA 101 Introduction to Law) Cost: 1/3 of the tuition of a 3 credit course. Must apply when you are taking the course to receive transcribed credit.*

## Marketing

Credit: 1 Unit      Length: 40 weeks

A Google search results in over 70 different definitions for marketing. However it is defined, marketing provides the bridge between business and consumers. One goal of the course is to open the student's eyes to the world of marketing that is all around and to become educated decision-makers. Students will study consumer behavior in order to understand and apply marketing, management, and entrepreneurial principles to make rational economic decisions and to exhibit social responsibility

in a global economy. Emphasis is placed on marketing concepts, such as the buying and selling process, advertising and promotion, distribution, economics, and the global marketplace. Participation in hands-on marketing activities such as actual sales presentations, designing newspaper advertisements, preparing radio commercials, and designing visual merchandise displays will be an integral part of the course.

## Career & Financial Management

Credit: 1/2 Unit      Length: 20 Weeks

What do you want to do to earn a living? Come and explore your options! You will identify your strengths and weaknesses, investigate career interest areas, and research different occupations. Examine job leads, prepare a resume, and learn job interview techniques.

Once your occupational goal has been identified, discussion will be focused on becoming an independent adult. Learn how to handle your finances including budgeting, banking, income tax preparation, credit and consumerism. Don't waste time and money in college trying to determine your major. Plan your future now!!

## Microsoft & Google Suites

Credit: 1/2 Unit      Length: 20 Weeks

Students enrolled in this course will receive the necessary skills to gain knowledge and understanding in using word processing, presentation and spreadsheet programs. Microsoft Office 2019 and the Google Suite will be explored and contrasted. Google Docs, Slides and Sheets will be compared to

Microsoft Word, PowerPoint and Excel. Students will learn how to enhance the visual display and clarity of their documents regardless of what suite they are using. The skills learned in this course will assist students throughout high school, college, and beyond. Students can also earn a Microsoft Office certification in Word, Powerpoint and Excel. These certificates and testing can occur during class.

### Computer Skills 4Life

Credit: 1/2 Unit      Length: 20 weeks

Can you keyboard correctly? With speed? Without looking at your fingers? This one semester course is designed to reinforce “touch keyboarding techniques”. Basic academic and workforce formatting applications - emails, letters, table reports and a look at digital footprints are also covered. Learn the proper way to keyboard - it will make your life both academically and on the job easier and more productive.

### Think, Code, Create [\(Course taught at West\)](#)

Credit: ½ Unit      Length: 20 Weeks

Ready to dive into the world of computers, coding, and creativity? This beginner-friendly course is designed to make computer science exciting, approachable, and full of hands-on fun! No experience needed - just bring your curiosity and problem-solving skills! The course focuses on interactive animations and games, web development, AI and machine learning along with virtual reality. Students will get to use virtual reality headsets and will even get to program a small handheld computer! Get

ready to have some fun with computer science!

### Digital Design [\(Course taught at West\)](#)

Credit: ½ Unit      Length: 20 Weeks

Computer science is everywhere, from our smartphones and video games to music, medicine and much more. This beginner level class introduces students to the foundational concepts of Computer Science and challenges them to explore how computing and technology can impact the world. Course focuses on app design, cyber security, the internet along with virtual reality. Students will get to use virtual reality headsets and will get to program a small robot! Sign up and see where computer science can take you!

### WS Designs [\(West\)](#)/East Designs [\(East\)](#)

Credit: 1 Unit      Length: 40 Weeks

Prerequisite: Must be in grade 11 or 12

Imagine the Possibilities? What you can imagine, you can create. This course is designed to provide students with hands-on experience in operating a student run business. Students will be assigned to work in different departments of a business; accounting, product production, sales, marketing and quality control to name a few. This will provide students with a unique experience to create, market, promote and sell products to the school community. This course is designed for students who have a self-starter attitude, intrinsically motivated, eager to create and innovate and the ability to work collaboratively with others.

## **Co-Curricular Activity**

### **DECA**

An Association of Marketing, Management, and Entrepreneurship Students

Prerequisite: Must be enrolled in a Business Course (9th Graders may join as freshman with special permission and not meet the prerequisite)

Students may join this co-curricular student organization to further develop their business skills through application. DECA is an international association of marketing and management students, and the role of DECA as a professional student organization is to provide students with opportunities to apply the skills and knowledge they learn in the classroom. DECA enables students to find themselves, to express a positive self-image, and to be self-reliant. It puts them on a path of opportunity that is clear and meaningful to them.

Students learn how the business world functions. Students will be involved in a variety of activities which include community projects as well as conferences and competitions. DECA is an effective way to develop leadership skills such as working together, establishing goals, decision making, team building, problem solving and leadership skills. These skills will last a lifetime; they are useful in any career field situation, and are in great demand in the business world. Students also have access to numerous networking opportunities with members of the business community.

Web pages to visit for more information about DECA:

National DECA: [www.deca.org](http://www.deca.org)

New York State: [www.newyorkdeca.org](http://www.newyorkdeca.org)

## **Business and Marketing Honor Society**

The West Seneca Business Department would like to recognize students who have demonstrated outstanding achievement in our business and academy programs.

### **Eligibility Requirements**

- Must be currently enrolled in a business course.
- Seniors: Must complete three (3) units in business by the end of the current school year.
- Juniors: Must complete two (2) units in business by the end of the current school year.  
(You must be planning to continue for at least one additional credit prior to graduation.)

### **Minimum Criteria**

- G.P.A. for Business/Marketing courses of 88% or B+ (3.5).
- Overall G.P.A. of 80% or B (3.0).

### **Additional Criteria**

To be selected, you must also have demonstrated the following (in the classroom, in the community and through extracurricular involvement):

- Character - evidenced by teachers attesting to this quality.
- Leadership - evidenced by committee chair positions, officer/chair or other lead positions in student organizations, civic/community leadership roles, etc.
- Service - evidenced by volunteer activities in the school and/or community, etc.
- Attend at least 1 field trip within the business/academy department per year
- Participate in service project(s) (Ex. Holiday helpers, Chicken BBQ, and/or assist with an Academy event)

**SEE YOUR BUSINESS TEACHER FOR AN APPLICATION.**

# Academy of Business and Finance



Students have an opportunity to join one of only 604 such Academies in the United States. This “school within a school” program is affiliated with the National Academy Foundation.

Students enrolled in the Academy will receive a Regents diploma or Regents Diploma with an advanced designation along with an expanded certificate from the National Academy Foundation.

Students will achieve universal business skills and knowledge with a focus on the Financial Industry. Academy graduates will participate in a vast array of industry-sponsored activities including field trips, shadow days, classroom speakers, paid internships, and college credit for courses.

The Academy is supported by an Advisory Board, which currently includes the following companies, organizations and colleges:

Villa Maria College	Kenworth Northeast Group, Inc.	WNY Dyslexia Specialists, LLC
Hilbert College	Wallstreet Properties LLC	West Seneca Chamber of Commerce
West Seneca Central Schools	Auricchio Insurance	West Seneca Library
M & T Bank	Buffalo First Wealth Management, LLC	Western New York Federal Credit Union
Key Bank	Ferraro CPA Services, P.C.	M&T Securities
Niagara Frontier Boy Scouts Assoc.	Instream, LLC	Real Help Decorative Concrete
Canisius College	Just Pizza	Equitable Advisors
Junior Achievement of WNY	Kevin Gibson, CPA	Evans Bank
Chicago Title Insurance Co	Leo's Pizzeria	One Bridge Benefits
Financial Trust Federal Credit Union	Michalek & Harrington LLC	SUNY Erie
Sgroi Financial, LLC	Morgan Stanley	Goldberg Segalla
Primerica	Omega Del	SUNY Brockport
Bryant & Stratton	Prestige Wealth Strategies	Cetera Investors
Foresight Financial	Scott Enterprises Inc.	Buffalo Financial
Citizens Bank	Supper Club-Prevention Focus	

This 3 year program will require students to take the following electives in addition to their Regents courses.

## ACADEMY OF BUSINESS & FINANCE COURSE SEQUENCE

### • Three Year Program •

<u>Grade Level</u>	<u>Course</u>	<u>Credit</u>
Ninth Grade - Recruitment, application, selection of candidates		
Tenth Grade	Microsoft Office	1 unit
Eleventh Grade	*Accounting	1 unit
	*College Career Portfolio & Internship Skills	1 unit
	Summer Internship	Paid
Twelfth Grade	*Personal Finance	1 unit
	Economics (see Social Studies)	½ unit
Eleventh OR Twelfth Grade	Course at Local College	

\* Advanced study college credit with SUNY Erie is available  
Accounting – BU 120 Introduction to Accounting (3 credits)

*Personal Finance – BU 233 Consumer Finance (3 credits)*

*College and Career Portfolio – GS 111 College Success Skills (3 credits)*

*\*Graduation - Certificate of Financial Studies in addition to their NYS Diploma. Also, students completing the Finance Academy program and successfully passing the CTE exam will receive the Career and Technical Endorsement affixed on their diploma.*

Articulation/Dual Enrollments with:

Bryant & Stratton, SUNY Erie Community College, Trocaire College, Hilbert College,  
College Board Advanced Placement Program, Syracuse University, Villa Maria College

Accounting/Academy

Credit: 1 unit

Length: 40 weeks

This course is recommended for students considering a college major in business, as well as those with an interest in accounting as a career. The first year accounting course provides a thorough background in the basic accounting procedures used to operate a business. Students will have a basic understanding of accounting procedures, payroll records, basic debits and credits, cash and special journals, worksheets, adjusting and closing entries, financial statements and checking accounts. The student is introduced to computerized accounting applications, including Microsoft Excel and more.

*Advanced Studies Course through SUNY Erie: 3 college credits (BU120 Introduction to Accounting). Cost: 1/3 of the tuition of a 3 credit course. Must apply when you are taking the course to receive transcribed credit.*

College Career Portfolio & Internship Skills

Credit: 1 Unit

Length: 40 Weeks

This hands-on course will introduce students to the application of multimedia technology in the workplace. The course will explore electronic presentations, Internet exploration, and desktop publishing while highlighting the interpersonal skills vital to a successful career. The Business and

Education Employability Portfolio, an electronic portfolio, will be compiled highlighting the student's exemplary work and extracurricular activities during high school. The student's career exploration, personal profile and academic records will also be included in the portfolio. This portfolio can be used for college applications and interviews, for scholarship applications and for workforce interviews. This course will also highlight internship expectations and soft skills needed in industry as students work towards post-graduation career readiness. Students will also be assigned a free website location until graduation enabling the electronic transfer and viewing of their portfolio. This portfolio is essential for all students. Qualifying students will receive an employability certificate from the Niagara Frontier Industry Education Counsel.

*Advanced studies course through SUNY Erie: 3 college credits (GS111 College Success Skills). Cost: 1/3 of the tuition of a 3 credit course. Must apply when you are taking the course to receive transcribed credit.*

Microsoft Office/Academy

Credit: 1 Unit

Length: 40 Weeks

Recommended: Computer Skills 4Life

Computer skills are NOT a bonus anymore; they are an EXPECTATION in the workforce



and college! This course is a necessity for all students. Course emphasis is on word processing, spreadsheet, presentation and database applications utilizing Microsoft Office 2019 software. We'll take the guesswork out of preparing documents your teachers and college professors require.



### Personal Finance

Credit: 1 unit      Length: 40 weeks  
 Do you want to be financially independent?  
 Do you want to live your life without financial concerns? Personal Finance will help you achieve those goals. This course will provide students with the knowledge of the financial planning process and the components of saving and investing. Students will learn to set and reach financial goals by creating budgets, exploring various investment vehicles such as stocks, bonds, mutual funds and IRA's and planning for retirement. Students will also learn the facts about

trading on-line, purchasing insurance and understand some basic concepts of investing including "buying low and selling high," "not putting all your eggs into one basket" and the "Rule of 72."

*Advanced studies course through SUNY Erie: 3 college credits (BU233 Consumer Finance). Cost: 1/3 of the tuition of a 3 credit course. Must apply when you are taking the course to receive transcribed credit.*

### College Course

Credit: 3 college credits

All Academy students MUST take and successfully pass a college course. College courses are offered every semester including summer to fit a student's schedule. Courses can be taken on-site at a West Seneca High School or off-site at the campus location. Courses usually are offered one day per week after school, evenings or Saturdays. Most courses are tuition free requiring only a textbook expense. Students may elect to take more than one college course.



## **Academy Co-Curricular Activities:**

### Financial Trust Federal Credit Union Branch

Through a unique partnership agreement with Financial Trust Federal Credit Union, the West Seneca Finance Academy operates a student run branch, "The Vault". The first of its kind in Western New York, this experience provides an opportunity for Academy students to apply their skills and knowledge in a real setting. The general student population and faculty and staff will have the option to open checking and savings accounts and conduct their banking business on site. Students working the credit union will receive a certificate and earn 1/4 to 1 credit or accumulate hours towards an internship.

### Stock Market Game

In this portfolio management simulation, teams of students construct a portfolio of stocks using a hypothetical \$100,000. Each team buys and sells from its portfolio with the objective of achieving an appreciation in the value. The teams that have the highest portfolio value at the conclusion of the simulation are awarded prizes.

# Academy of Information Technology/ Digital Media



The Academy of Information Technology/ Digital Media (AODM) introduces students to the broad career opportunities in today's digital workforce and, in the process, equips them with the personal, analytical, technical and communications skills they need to thrive.

Despite a volatile economy, information technology is everywhere, and the need for education to bridge the digital divide is more critical than ever. A study conducted by the Information Technology Association of America showed nearly half a million unfilled IT jobs in the U.S. - and a persistent "skills gap" that was keeping these positions from being filled. The Academy of Digital Media helps meet this need by preparing high school students for successful careers in information technology. Through their Academy experience, students gain an understanding of the connections that exist between their education and the workplace. Academy teachers and industry mentors provide students with the curriculum and guidance necessary for rewarding careers. In particular, the Academy's focus on math and science emphasizes what is needed for a concentration in information technology. Interested students will be asked to apply during their freshman year.

The Academy is supported by an Advisory Board which currently includes the following companies, organizations and colleges:

West Seneca Central Schools • Execision Group • Hilbert College • Mission Ignite/Computers for Children, Inc  
Bryant and Stratton • Automated Computer Solutions  
NAF Representative • Community Service for Developmentally Disabled • SUNY Erie  
UB School of Management • MOOG, Inc. • Rich Products • M&T Bank

## ACADEMY COURSE SEQUENCE

### • Three Year Program •

<u>Grade Level</u>	<u>Course</u>	<u>Credits</u>
Ninth Grade - Recruitment, application, selection of candidates		
Tenth Grade	Introduction to Information Technology/Computer Applications	1 unit
	Programming	½ unit
Eleventh Grade	Web Page Design	½ unit
	*College Career Port & Internship Skills	1 unit
	Digital Media	½ unit
Summer	Summer Internship	Paid
Twelfth Grade	App Development	½ unit
	Gaming	½ unit
Eleventh OR Twelfth Grade	Course at a local college	3 College Credits

\* Advanced study college credit with SUNY Erie is available

*Programming – DA 105 Introduction to Structured Programming (3 credits)*

*College and Career Portfolio – GS 111 College Success Skills (3 credits)*

*\*Graduation - Certificate of Studies in addition to their NYS Regents Diploma. Also, students completing the Academy of Digital Media program and successfully passing the CTE exam will receive the Career and Technical Endorsement affixed on their diploma.*

Articulation/Dual Enrollments with:

Bryant & Stratton, SUNY Erie Community College, Trocaire College, Hilbert College,  
College Board Advanced Placement Program, Syracuse University, Villa Maria College

### App Development

Credit: 1/2 Unit

Length: 20 Weeks

The Academy of Digital Media, in conjunction with Lenovo and the Massachusetts Institute of Technology (MIT), will prepare the next generation of app developers. This course enables students to learn the skills to design, develop and launch apps using App Inventor. It provides hands-on examples, including simple games and practical tools, to make creating apps fun and easy.

### College Career Portfolio & Internship Skills

Credit: 1 Unit

Length: 40 Weeks

This hands-on course will introduce students to the application of multimedia technology in the workplace. The course will explore evolving technologies including electronic presentations, Internet exploration, and desktop publishing while highlighting the interpersonal skills vital to a successful career. The Business and Education Employability Portfolio, an electronic portfolio, will be compiled highlighting the student's exemplary work and extracurricular activities during high school. The student's career exploration, personal profile and academic records will also be included in the portfolio. This portfolio can be used for college applications and interviews, for scholarship applications and for workforce interviews. This course will also highlight internship expectations and

soft skills needed in industry as students work towards post-graduation career readiness. Students will also be assigned a free website location until graduation enabling the electronic transfer and viewing of their portfolio. This portfolio is essential for all students. Qualifying students will receive an employability certificate from the Niagara Frontier Industry Education Council.

*Advanced studies course through SUNY Erie: 3 college credits (GS111 College Success Skills). Cost: 1/3 of the tuition of a 3 credit course. Must apply when you are taking the course to receive transcribed credit.*

### Digital Media

Credit: 1/2 Unit

Length: 20 weeks

In this course, students will integrate audio, video, graphics, text and animation tools while creating their own media. Animate Screencastify and Adobe Premiere Pro will be the programs utilized.

### Gaming

Credit: 1/2 Unit

Length: 20 weeks

Do you want to develop computer games without spending countless hours learning how to become a programmer? Then you've come to the right place. This course will allow you to make exciting computer games. You will also learn about the history of games, understand the industry rating system, and research possible careers within the gaming field.



software such as Microsoft Office 2019 or other available software in a Windows Environment.

### Computer Programming

Credit: 1/2 Unit

Length: 20 weeks

Why do programs work? Students will learn how to describe, analyze and solve programming problems. These skills will be acquired while learning the syntax of the Java Script and Alice programming languages.

*Advanced Studies Course through SUNY Erie: 3 college credits (DA105: Intro to Structured Programming). Cost: 1/3 of the tuition of a 3 credit course. Must apply when you are taking the course to receive transcribed credit.*

### College Course

Credit: 3 college credits

All Academy students MUST take and successfully pass a college course. College courses are offered every semester including summer to fit a student's schedule. Courses can be taken on-site at a West Seneca High School or offsite at the campus location. Courses usually are offered one day per week after school, evenings or Saturdays. All courses are tuition free requiring only a textbook expense. Students may elect to take more than one college course.



### Web Page Design/Academy

Credit: 1/2 Unit

Length: 20 weeks

This course will help students gain a general understanding of the history of the Internet, protocols, browsers, email, HTML language and web page design. Students will learn how the world communicates electronically via e-mail and newsgroups, effective web searching techniques, and file transfer protocols. In addition, students will create their own personal web pages using state of the art software. Each student will plan, design, and create professional web pages. Advanced features including animation, marquees, video clips and sound clips will be covered.

### Introduction to Information

### Technology/Computer Applications

Credit: 1 Unit

Length: 40 weeks

What impact has technology had on your life? Is your computer safe from "predators"? Are you considering a career in computer science? This course will examine the operation and management of business and society. Students will gain proficiency in word processing, database, spreadsheets, and desktop publishing using computer

# Career and Technical Education

Programs • Erie 1 BOCES • Potter, Harkness, Calspan and Kenton

A student whose absence from scheduled instruction exceeds 10% of the possible days of attendance may not be eligible to attend the BOCES program. Three tardies will constitute an absence. Students requesting a program at the Potter, Harkness, Calspan or Kenton Career Centers will be required to attend an orientation and meeting with a parent/guardian.

\*Please note that students may be responsible for purchasing supplies/equipment for various programs.

## Animal Science I and II (HKP)

3.75 credits per year- 2 year program

Animal Science exposes students to careers in the veterinary and animal management fields. This program teaches basic and advanced skills in nutrition, health and disease, animal handling and restraint, grooming, pet first aid, and medical terminology.

## Auto Technician Training I and II (HKP)

3.75 credits per year- 2 year program

This program is certified through the National Automotive Technician Education Foundation (NATEF). It provides an excellent foundation for students looking to enter an automotive college program or the entry-level workforce. Students are trained on the latest technical equipment by instructors that are Automotive Service Excellence (ASE) certified. Students who successfully complete this program will be eligible to sit for the ASE student certification in Auto Maintenance and Light Repair. Passing this exam will qualify for a Pathway graduation option

## Aviation Technology I and II (Harkness)

3.75 credits per year- 2 year program

Experience flight by hands-on operation of a Piper Warrior and take off with a licensed pilot as your teacher. Experience maintenance procedures with the aircraft in class. Create, develop and test modifications to aircraft designs in an engineering exploration style.

## Baking and Pastry Arts I and II (HKP)

3.75 credits per year- 2 year program

Students will not only produce baked goods in both large and small quantities, but understand the science behind them. Students will create beautiful show pieces, plated desserts, chocolates and individual pastries in extensive hand-on classes. This program is certified by the American Culinary Federation (ACF).

## Barbering I and II (H,K)

3.75 credits per year- 2 year program

Leave your mark on the ever changing world of fashion and beauty. Prepare for the NYS Master Barber's licensing exam. Cut, color, and style male and female clients. Learn to communicate effectively with clients and colleagues.

## Building Trades I and II (HKP)

3.75 credits per year- 2 year program

This program offers instruction in carpentry and associated trade areas. Students participate in construction modules of introduction to carpentry, foundation and floor framing, wall framing, ceiling and roof framing, interior and exterior finish, cabinet making and remodeling with an introduction to masonry, plumbing and electrical systems. Practical experience through a variety of in shop projects plus internship opportunities with regional contractors and businesses are provided to all students.

### Collision Repair I and II (Harkness)

3.75 credits per year- 2 year program

The first 10 weeks of this program will consist of a core introduction to the automotive industry. Students will then specialize in collision repair for the remainder of the program. The program will cover the total process of auto body restoration: metal straightening, glass and panel replacement, fiberglass repair and all painting preparation and finishing techniques. Students will also perform repairs on donated vehicles, their own family vehicles, and participate in an internship at a local automotive collision repair facility. This program aligns with iCar curriculum and standards. Students will work towards iCar industry certifications in "Non-Structural Technician" and "Refinish Technician" and will qualify for a graduation pathway.

### Cosmetology I and II (HKP)

3.75 credits per year- 2 year program

This two-year program prepares students to work in the salon industry. During the active Customer Care Clinic, students put their skills into action by working on actual clients from the community. Local salon owners regularly visit classrooms to share the latest trends in cutting, coloring, and styling. In the second year, students participate in internships by working in the salon of their choice. Upon graduation, Erie 1 BOCES will assist students in completing the 1,000 instructional hours required to obtain a cosmetology license in NYS.

### Criminal Justice I and II (HKP)

3.75 credits per year- 2 year program

Criminal Justice students explore the major areas of the field including law enforcement, courts, corrections, investigations and forensics, homeland security and private security.

### Culinary Arts I and II (HKP)

3.75 credit per year- 2 year program

Culinary arts bring new tastes and worldly adventures to the class everyday. Students will spend their days preparing and serving meals. This program is certified by the American Culinary Federation (ACF). Graduates receive a certificate that they attended an American Culinary Federation Accredited (ACF) Program and a Certified Fundamentals Cook (CFC) designation.

### Cybersecurity and Networking I and II (Harkness)

3.75 credits per year- 2 year program

Use the latest software to analyze data traffic on a network. Design computer networks and program routers and switches. Learn to troubleshoot PC hardware and operating systems. Get industry standard Network+ and Cisco CCNA certifications while still in high school.

### Dental Laboratory Technology I and II (Harkness)

3.75 credits per year- 2 year program

Dental laboratory technology is the art and science of the fabrication of corrective devices and replacements for natural teeth. The course covers five specialties of dental laboratory technology: complete denture, partial denture, crown and bridge restoration, porcelain and ceramics and orthodontics.

### Early Childhood Education I and II (HKP)

3.75 credits per year- 2 year program

Work side-by-side with a certified teacher in a daycare or elementary classroom. Create and teach your own lessons in a preschool program run right out of the Harkness school.



# English

The English Department program is a developmental one whereby students individually progress and develop their skills. All courses, strategies, and units are based on the Next Gen Learning or New York State English Language Arts Standards. Students will read, listen, write, and speak for information and understanding, literary response

and expression, critical analysis and evaluation, and social interaction. Our students will become personally involved in a variety of language arts activities in a heterogeneous, supportive learning environment. All students must successfully pass the English Regents Exam to fulfill graduation requirements.

## COURSE OFFERINGS

<u>Course</u>	<u>Credit</u>	<u>Length</u>	<u>Type of Exam</u>
English 9	1 unit	40 weeks	Local
English 9 Honors	1 unit	40 weeks	Local
English 10	1 unit	40 weeks	Local
English 10 Honors	1 unit	40 weeks	Local
English 11	1 unit	40 weeks	Regents
English 11 Honors	1 unit	40 weeks	Regents
English 12	1 unit	40 weeks	Local
English AP	1 unit	40 weeks	AP
English 12 Honors	1 unit	40 weeks	Hilbert
TV Broadcasting (West)	1 unit	40 weeks	Local
Communication Skills for 21st Century*	½ unit	20 weeks	Local
Wicked Works of Fiction*	½ unit	20 weeks	Local
Heroes, Legends and Lore*	½ unit	20 weeks	Local
Sports and Adventure Literature & Writing*	½ unit	20 weeks	Local
Creating Narrative Cinema (East)	1 unit	40 weeks	Local

\*Seniors can select two .5 unit alternatives in lieu of English 12 or in addition to AP English in their senior year.



### English 9

Credit: 1 Unit

Length: 40 weeks

This ninth grade English course is tailored to all ability levels and is designed to foster creativity in thinking and writing while further defining the fundamentals of language usage and imparting a sense of style in writing. It also intends to develop an awareness of the literary genre with emphasis on critical reading skills. Techniques of oral communication are introduced, and the importance of good listening habits are stressed. The final assessment is a district exam aligned with the Next Gen Learning Standards.

### English 9 Honors

Credit: 1 Unit

Length: 40 weeks

Prerequisite: Successful completion of English 8 Honors in Middle School and teacher recommendation.

This honors course continues the development of reading and writing skills with an emphasis on the development of literary analysis and evaluation skills. In addition to reading and writing assignments completed in class, students will be expected to regularly complete such assignments outside of class. Students will complete a summer reading project. The final assessment is a district exam aligned with the Next Gen Learning Standards.

### English 10

Credit: 1 Unit

Length: 40 weeks

This tenth grade course continues to stress the development of reading, writing, speaking and listening with an emphasis on the studying of literary genres and the fundamentals of critical reading and writing. The final assessment is a district exam aligned with the Next Gen Learning Standards.

### English 10 Honors

Credit: 1 Unit

Length: 40 weeks

Prerequisite: Successful completion of English 9 Honors and/or teacher recommendation.

This course is designed for the academically talented student. It goes beyond the scope of the English 2 course to include more challenging and stimulating literature. The writing/research projects provide opportunities for higher levels of creativity and critical thought processes. Students will complete a summer reading project. The final assessment is a district exam aligned with the Next Gen Learning Standards.

### English 11

Credit: 1 Unit

Length: 40 weeks

This course consists of a study of Literature and composition, vocabulary development, and an independent reading program. It fosters mastery in the areas of listening, reading, and writing for information and understanding, literary response, critical analysis and research. The final assessment is the English Regents Exam.

### English 11 Honors

Credit: 1 Unit Length: 40 weeks

Prerequisite: English 10 Honors and Teacher Recommendation

This course is an intensive, challenging survey of literature. Students taking this course will study texts from different periods of history, examining how writers analyze the major social and cultural questions of their time through literature. Through the study of literature, students will explore the idea that there are multiple correct readings of a text, but all good readings are grounded in the text. Students will also identify the literary elements and techniques writers employ to tell these stories and, more importantly, how these devices impact meaning. English 11 Honors also includes

study of non-fiction texts, including research writing and how authors use language to create meaning. Students will compose argumentative, informational, narrative and analytical pieces of writing. Students are expected to read independently outside of class time.

Students may also register for course credit through Hilbert for a fee. This is optional, but would guarantee college credit if a passing grade is earned in the course.

### English 12

Credit: 1 Unit Length: 40 weeks

This course focuses on helping students explore and advance their skills in thinking, vocabulary, comprehension, active discussion, research techniques, writing thesis papers and reading a wide gamut of literature. Emphasis in this course is placed on critical analysis and research. The teacher designs the final assessment.

### English 12 Honors

Credit: 1 Unit Length: 40 weeks

Prerequisite: Successful completion of English 11 Honors or English 11 and Teacher Recommendation

This course is a dual enrollment course, partnering with Hilbert College for EN 102 Writing Across the Humanities. Students will read a variety of types of literature including fiction, non-fiction, poetry, and drama while they practice their analytical and interpretive skills as well as prepare for college level writing, evaluation, and research.

Students may also register for course credit through Hilbert for a fee. This is optional, but would guarantee college credit if a passing grade is earned in the course.

### English AP

Credit: 1 Unit Length: 40 weeks

Prerequisite: Successful completion of English 11, English 11 Honors and Teacher Recommendation

This course is designed for college bound seniors. Students enrolled in this course may gain credit hours that may be applied to college programs at most colleges and universities. Credit is based on successfully completing the Advanced Placement test in Literature and Composition, which is given in the spring. Credits are awarded by earning a 3, 4, or 5 on the exam. This course requires that students do independent reading. Students are also required to write essays of analysis of the works that they have read. Students will read poetry, plays, novels and short stories ranging from classical Greek drama to literature of the twentieth century. Students will complete a summer reading project. A dual credit option through Hilbert College is also available for EN102 Writing Across the Humanities.

Students will be required to sit for the AP exam in May. The AP exam fee is covered by the district. Students may also register for course credit through Hilbert for a fee. This is optional, but would guarantee college credit if a passing grade is earned in the course.

### TV Broadcasting (West)

Credit: 1 Unit Length: 40 weeks

Prerequisite: Grade 12

TV Broadcasting is a project-based course in which students learn how to broadcast, write, produce, and anchor daily, live, televised programs for the school. This course is designed to prepare students who may be interested in pursuing Communications or Journalism majors at the collegiate level with foundational knowledge in all phases of the broadcasting process, including: identifying, researching, and prioritizing news stories; writing detailed storyboards and scripting segments; staging shots and filming segments; editing videos in post-production; and more. Students will work independently, as well as in production

groups, to develop news stories, feature stories, editorials, commercial advertising for school programs, and opening segments. Students will also gain experience in front of the camera as reporters and on-air talents.

Note: Cannot be taken simultaneously with T.V. Productions

### Communication Skills for 21st Century

Credit: ½ Unit                      Length: 20 weeks

Prerequisite: Grade 12

This participation-focused course is designed to help students become effective communicators, both in person and through digital media. Emphasizing public speaking skills, the curriculum integrates emerging technologies to enhance interpersonal communication in a variety of settings. Topics of study may include; but are not limited to, public speaking paired with presentation tools such as Google Slides and Canva, podcast production, debate and persuasive techniques, and the application of research to support informative communication.

### Wicked Works of Fiction

Credit: ½ Unit                      Length: 20 weeks

Prerequisite: Grade 12

Writers of dystopian, science fiction, fantasy, horror, mystery, and satirical fiction grapple with universal themes about human nature. Discussions of this literature will attempt to answer questions about the roots of evil, the individual and alienation, the desire for divine power, and the question of “other”. The course will examine these questions and look for answers about the nature of humanity.

### Heroes, Legends, and Lore

Credit: ½ Unit                      Length: 20 weeks

Prerequisite: Grade 12

This is a twenty-week course that delves into the universal patterns of heroic tales across

various cultures, as outlined in Joseph Campbell's *The Hero with a Thousand Faces*. This course invites students to embark on an epic adventure through the intricate pathways of the heroic journey, uncovering the twelve critical steps that define every hero's path and exploring various heroic archetypes, including the “tragic hero,” “antihero,” and “unlikely hero.” Students will dissect the hero's journey, gaining insights into the universal stages that compose the monomyth. Through film analysis, personal reflection, short stories,, and the novel *Lore*, students will engage with multiple mediums to see the monomyth in action while examining and discussing the cultural significance and timeless appeal of heroic narratives.

### Sports and Adventure Literature and Writing

Credit: ½ Unit                      Length: 20 weeks

Prerequisite: Grade 12

Students will analyze a wide range of material relating to the topic of sports as well as survival skills. Through various lenses, students will explore significant societal, cultural and personal issues within literature. Students will engage with a variety of texts including a major text, short fiction, nonfiction, articles, and documentaries. Students will also engage in different types of writing, including personal narrative, journalistic writing, projects, and research-based writing. Students will participate in various discussions about course material as well. The final exam is a research project.

### Creating Narrative Cinema (East)

Credit: 1 Unit                      Length: 40 weeks

Prerequisite: Grade 12 and enrolled in Film and Multimedia Production

This course will focus on the creation of narrative cinema using basic narrative

principles of English Language Arts (character, conflict, dialogue, point of view, and plot but with a screenwriting focus) in addition to incorporating film analysis to gain further insight into the visual, literary, aural, and performance aesthetics that comprise a work of cinema. By the end of the course, students will have acquired the knowledge and skills of reading film, developing personal meanings and interpretations of film, and written/visual cinematic composition as it pertains to film production (creative writing, script writing,

storyboarding, brainstorming, literary adaptation, etc.). Students will produce various scripts tackling a wide range of formats: public service announcements (PSAs), commercials, comic and dramatic sketches and skits, a short documentary film and a short narrative film. This course is offered as part of the Film and Multimedia Senior Concentration and will culminate in a film festival highlighting student work. This course will satisfy the 4th unit of English.

### **Co-Curricular Connection:**

#### **The School Newspaper**

[Trojan Times – East Senior](#)

[West Horizons - West Senior](#)

The award winning school newspapers are open to anyone interested in communicating in the print media. Students meet periodically to discuss the five issues printed during the year. From there, students work independently to produce the articles for publication.

By writing for school publications students develop pride and responsibility for their published pieces. The publications serve as purposeful learning experiences in which students forge friendships and create lasting memories. West Horizons and Trojan Times participate in regional conferences and competitions sponsored by colleges and conducted by professionals in the journalism field.

#### **The School Literary Magazine**

[Creative License – East Senior](#)

[West Writer's Club - West Senior](#)

The literary magazine is a school-wide publication featuring poetry, short stories, photography, and artwork. Students plan, write, edit, and design the publication. Membership on the literary magazine staff is open to all students. The students meet weekly to produce one publication a year.

## English Honors Socratic Society (East)

Requirements: Candidates for membership must have been in attendance at the school the equivalent of one semester prior to being considered. If special circumstances merit, the Faculty Advisory Council may waive the semester regulation.

Candidates must: complete the equivalent of two semesters of English, have achieved a minimum overall grade point average of a 3.0 (on a 4.0 scale), have achieved a minimum English grade point average of 3.0 (on a 4.0 scale) prior to induction as members.

Candidates achieving the minimal requirements may be invited to apply for membership in NEHS. The application process will require candidates to demonstrate their desire to be a member of NEHS. Application processes developed by Faculty Advisory Councils may include additional criteria (i.e., application essays, letters of recommendation, etc.) but all requirements must be based on demonstrated academic performance, interest in NEHS, and applicant character.



### Project LIT

This chapter of the nationwide organization brings together students throughout the West Seneca District through Community Service projects, discussion, and reading and writing. Students read and discuss diverse Young Adult Literature, volunteer as literacy ambassadors throughout elementary schools in the district, and build Little Free Libraries throughout the West Seneca Community to promote Literacy in a meaningful and concrete way. In taking part in Project LIT, students foster a greater sense of social awareness, and unite to develop and produce projects that benefit the community.

### Electrical Systems I and II (HKP)

3.75 credits per year- 2 year program

This course deals with the application of electrical technologies in all phases of the electrical Industry. It prepares students for the planning, installation, maintenance and troubleshooting of wiring systems in residential and light industrial settings according to the standards of the National Electrical Code. Instruction in principles of electricity, reading of blueprints and wiring diagrams, and renewable technologies. Installation of solar and wind technology is emphasized.

### Electronics and Applied Technology I and II (Harkness)

3.75 credits per year- 2 year program

Students will use soldering irons, hand tools, meters, and oscilloscopes to build computers, robots, amplifiers, wireless devices, and other high tech projects. Topics of study include: microcomputer systems, amplification, digital electronics, soldering, desoldering, and PCB repair. Students will understand semiconductor, DC, and AC electronics, analog/digital conversion, telephone and cellular communications, and radio communications.

### Emergency Medical and Fire Services I and II (Kenton)

3.75 credits per year- 2 year program

Students will explore the wide variety of career opportunities available in Emergency and Fire Services and practice hands-on emergency care skills like patient assessment, treatment, team communication, and patient transportation. Topics of study include: anatomy and physiology, medical terminology, diseases and disorders, and basic medical abbreviations. Students will understand emergency and administration, primary and secondary assessment, weight conversions, concentration calculations, trauma intervention and special considerations, special patient populations, and EMS operations.

### Engineering and Robotics I and II (Harkness)

3.75 credits per year- 2 year program

Learn how to build a trebuchet, help us to develop the technology necessary to create a 3D printed "bobblehead", or create 3D printable parts and artwork from black and white pictures. WE build a variety of robots for competition within the classroom, at Tech Wars, and for First Robotics, held annually at RIT.

### Esports Management and Game Development (Calspan)

3.75 credits per year - 2 year program Students will explore the growing world of Esports and learn the business components of this booming industry. Topics of study include: computer literacy, game industry fundamentals, narrative design, principles and elements of design, game audio components, broadcasting and streaming, logo and brand design, game theory and strategy, and marketing strategies.

### Exercise Science I and II (PK)

3.75 credits per year- 2 year program

Students will explore the effects of exercise including cardio-conditioning, strength and flexibility training on human health, wellness and sports performance. Topics of study include: fitness safety, functional movement and screening, health fitness trends, human anatomy and physiology, nutrition and weight management, specialty program design, cardiovascular and resistance training program design, sport specific training and the business of fitness. Students will design, implement and update personal training programs based on client specific goals. Students will also investigate and on various career paths in the healthcare industry.

### Fashion Design Technology I and II (PH)

3.75 credits per year 2 Year Program

Experience what it's like to produce a "NYC Fashion Week" show. Learn to dress, style and create trends based on design elements and the fashion cycle. Create a successful business plan for a fashion boutique combining your design aesthetics with merchandising concepts.

### Health Careers and Health Careers II (Intro to Nursing) (HKP)

3.75 credits per year- 2 year program

This program is designed to help students explore and deepen their knowledge of careers in health care so that they can make informed college and career choices. Students learn the importance of health and wellness promotion as an integral element of any health related career. The study of medical terminology and the human body in health and disease and insight for the student pursuing any medical/health career. The core curriculum provides basic skills, knowledge and attitudes common to present and emerging health careers. Units of study in the first year of this program form the basic foundation for more specialized study in basic nursing skills for the 2nd year.

### HVAC I & II (HP)

3.75 credits per year- 2 year program

Students will gain an understanding of the fundamentals of residential and light commercial heating, ventilation and air conditioning installation, service, and repair. Topics of study include: potable water systems, forced air heating systems, steam and hydronic heating systems, drainage, waste and vents, and central air conditioning systems. Students will practice soldering, brazing, blueprint interpretation and isometric drawing analysis. Students will earn trade related certifications like OSHA 10 and EPA 608.

### Plumbing I and II (Harkness)

3.75 credits per year - 2 year program

Students will learn how to cut and install various types of materials that are used within the field. Topics of study include: plumbing and professional safety, blueprint reading, fixture assembly, codes, pressure, temperature and water heaters, and water supply systems, mains, and wells.

### Social Media Marketing (Calspan)

3.75 credits- **1 year program (Seniors)**

Students will learn the variety of social media platforms available to businesses, learn how to build a company's brand, increase sales in e-commerce spaces, and drive website traffic. Students will explore ways to engage existing customers, reach new ones and analyze analytics and demographic information that allow marketers to track the success of their efforts and identify more ways to engage.

### Video Production and Recording Arts I and II (Calspan)

3.75 credits per year- 2 year program

Learn to create and produce your own original films and music. The video and recording industry is always changing and a VPRA student will have the opportunity to gain experience with cutting edge technology and network with industry professionals.

### Virtual Production and Design I and II (Calspan)

3.75 credits per year - 2 year program

Students will experience real world skills and techniques in the fields of graphic design, animation, illustration, and virtual production. The 2 year program studies topics like digital photography and videography, 2D and 3D animation and compositing, visual effects, combining virtual and physical worlds. They will create dynamic content through cutting edge, modern technology and techniques taught by industry professionals as well as gain real world experiences with today's top producers and creative professionals.

### Web Technologies & Game Programming I and II (Calspan)

3.75 credits per year- 2 year program

Web Technologies and Game Programming is a fun and creative program that teaches students of all skill levels how to create dynamic Web sites. The foundations of programming are also covered as students learn how to plan the logic of game design.

### Welding I and II (KP)

3.75 credits per year- 2 year program

There is great opportunity for employment due to the large shortage of welders in the United States. Instruction is given in methods of measurement, layout, equipment setup and operation. Students will become familiar with the tools and equipment of the metal fabrication industry including: blueprint reading, oxyacetylene and plasma cutting, brazing, shielded metal arc welding, gas metal arc welding, flux core arc welding and gas metal and tungsten arc welding of ferrous and non-ferrous materials. Essential shop mathematics and English are taught throughout the course, which align with the NYS learning standards. Students are taught the skills needed to meet the guidelines of the American Welding Society to qualify as an entry level welder. Students completing the course will have a career portfolio. Students may choose to enter the workforce or continue their education to further develop their knowledge and skills in the welding and fabrication industry. Students that pass the NOCTI Welding assessment will qualify for a graduation pathway.

### New Visions (Options for Honors Level Seniors)

Application, Letters of Recommendation and Interview required

#### Connections: Health Related Careers

4 credits per year- 1 year program

Experience a day in the life of a practicing medical professional as they interact with colleagues, patients and families. Students directly observe professionals while providers care and treat a variety of patient conditions.

\*\*requires an application and interview

\*current immunization, PPD and physical exam required prior to the start of class

\*must provide own transportation to class and clinics

\*professional dress is required daily. A lab coat is to be purchased at the beginning of the school year

#### Legal Academy

4 credits per year- 1 year program

Students will develop a network of professional connections through extensive field experiences across WNY. Shadow college level legal courses. Participate in the Erie County Bar Association's Mock Trial Competition.

\*requires an application and interview

\*students must provide their own transportation to Canisius College and internship sites

#### Zoo Wildlife & Conservation Careers

4 credits per year- 1 year program

This program allows highly motivated, college bound seniors the opportunity to explore options in the many areas related to wildlife, conservation and zoo-based careers. This program includes daily access to zoo grounds, internships with keepers, behind the scenes tours, and diverse guest speakers. The school year will culminate with a project in which students research and design their own animal exhibit with input from the Buffalo Zoo's animal experts.



### Diesel Technology

4 credits per year - 1 year program

Diesel Technology is a 1-year Tech Prep program that connects qualified, highly-motivated high school seniors with professionals in the workplace. This competitive, off-site program at Conway Beam Truck Group in West Seneca provides unique training with nationally recognized partners.

\*requires an application and interview

\*small class sizes

\*students must provide their own transportation

### Education Pathways Academy

4 credits per year - 1 year program

Students will explore the field of education while earning high school and college credits.

Courses are structured as Learning Communities, which consist of a cohort of students and faculty exploring a common theme.

\*Application and interview process

\*Students must provide their own transportation

### Plant Science

4 credits per year - 1 year program

Students will learn greenhouse management, plant and soil science and landscape design.

Topics of study include: the foundations of horticulture, plant cells and tissues, roots and soils, greenhouse management, watering and hydroponics, and native and invasive species.

Students will engage in propagation techniques, and complete a variety of seasonal projects while on the grounds of the Buffalo and Erie County Botanical Gardens.

\*Application and interview process

\*Students must provide their own transportation to the Buffalo and Erie County Botanical Gardens and internship sites

### Engineering and Manufacturing

4 credits per year - 1 year program

Students learn the fundamentals of engineering and manufacturing through theory-based and experiential learning rotations throughout the company. Students will learn fundamental engineering methodology and problem-solving skills, develop a network of professional connections through field experiences, and more. Topics of study include casting, molding, mechanical fastening, working with statics, dynamics, and mechanics of materials, working with vector properties and operations, and conductors, insulators, and semi-conductors. Students gain field experience at PCB Piezotronics.

### Achievement Award

To encourage students to reach their full potential and to recognize their accomplishments and efforts, Career and Technical Education Achievement Awards are issued. Awards are given to students who develop the essential skills required for the workplace.

#### Award Requirements:

- Completion of all program requirements •
- Average of at least 85% for the two years •
- Good attendance (15 days absence per year - Maximum of 30 days for two years) •
- Punctuality (Maximum of 10 days late per year) •
- Portfolio in program area with 75% average •

### Regents Diploma with a Technical Endorsement

Students enrolled in a New York State approved Career and Technical Education program who successfully complete all requirements are eligible to have a technical endorsement affixed to their High School Diploma.

Requirements for a technical endorsement include:

- Completion of the required units of credit for graduation • Passing grades on the 5 required Regents examinations or approved alternatives • Successful completion and passing of a national technical assessment (NOCTI)
- Successful completion of portfolio

The technical endorsement is imprinted on a seal to be affixed to the Diploma and says: "Career and Technical Endorsement".

# Health

## COURSE OFFERINGS

Course	Credit	Length	Type of Exam
Health I	½ unit	20 weeks	Local
Health II	½ unit	20 weeks	Local
Personal Training	½ unit	20 weeks	Local

### Health I • A Healthy Lifestyle

Credit: 1/2 Unit                      Length: 20 Weeks  
Requirement for graduation

Health I • A Healthy Lifestyle focuses on at-risk behaviors, prevention skills and healthy literacy to ensure overall health and wellness. Health I provides opportunities for students to demonstrate learned skills and behaviors through the aspects of physical, mental and social health in order to increase their quality of life. Students will integrate decision-making and goal setting skills through a variety of topics. Topics included in Health I are: wellness, nutrition, physical fitness, stress management, disease prevention, accessing information, human sexuality, alcohol, tobacco and other drugs.

### Health II • Critical Health Issues in Society

Credit: 1/2 Unit                      Length: 20 Weeks  
Prerequisite: Health I

Health II Critical Health Issues in Society focuses on the importance of good health for an individual to be a contributing member of society. Today's students need the knowledge and skills necessary to cope with the demands of society and become responsible, self-directed learners. Health II is a program to ensure that students acquire the skills for lifelong good health and wellness. Topics will include methods of preventing and resolving conflict as well as tactics in reducing and preventing violence. Another topic will explore the

importance of cultural diversity and the tolerance needed to encourage it. More specifically, students will define all types of abuse, sexual harassment, and the signs of harmful relationships. They will also develop skills for building strong positive relationships. In addition, certain community health issues will be researched. They may include controversies involving health care choices, consumer's rights, fad diets, fraudulent products, teen pregnancy, violence and environmental concerns. Public speaking is part of this course.

### Personal Training

Credit: 1/2 Unit                      Length: 20 Weeks  
Prerequisite: Health I  
Grade 11 & 12 only

The Personal Trainer course will orient students to the role a personal trainer plays in promoting healthy lifestyles and exercise. Concepts covered include health screening and evaluations, basic anatomy, fitness training, personal training techniques, exercise program design, and starting your own personal training business.

# Mathematics

## COURSE OFFERINGS

<u>Course</u>	<u>Credit</u>	<u>Length</u>	<u>Type of Exam</u>
Algebra I	1 unit	40 weeks	Regents
Algebra IA	1 unit	40 weeks	Local
Algebra IB	1 unit	40 weeks	Regents
Geometry	1 unit	40 weeks	Local
Geometry R	1 unit	40 weeks	Regents
Honors Geometry R	1 unit	40 weeks	Regents
Math Applications	1 unit	40 weeks	Local
Algebra 2	1 unit	40 weeks	Regents
Algebra 2A	1 unit	40 weeks	Local
Algebra 2B	½ unit	20 weeks	Regents
Intro to Statistics	½ unit	20 weeks	Local
*Pre-Calculus	1 unit	40 weeks	Local
AP Calculus	1 unit	40 weeks	AP
**NU Statistics	1 unit	40 weeks	Local

\*Articulation Agreement with SUNY Erie

\*\*Articulation Agreement with Niagara University

**Calculator use:** It is strongly suggested that incoming students purchase a TI-84 Plus graphing calculator for use in all Mathematics department courses. Families that already own a TI-83 Plus graphing calculator are welcome to use this, in lieu of purchasing a TI-84. Student use of the graphic calculator is mandatory on all New York State Regents Exam.

### Algebra I

Credit: 1 unit

Length: 40 weeks

The fundamental purpose of Algebra is to formalize and extend the mathematics that students learned in the middle grades. Due to the fact that this course is built on the middle grades standards, this is a more ambitious version of Algebra than has generally been offered. The critical areas, called clusters, deepen and extend

understanding of linear and exponential relationships by contrasting them with each other and by applying linear models to data that exhibit a linear trend, and students engage in methods for analyzing, solving and using quadratic functions. The Mathematical Practice Standards apply throughout each course and together with the content standards, prescribe that students experience mathematics as a coherent,

useful, and local subject that makes use of their ability to make sense of problem situations.

The critical areas include: Relationships between Quantities and Reasoning with Equations; Linear and Exponential Relationships; Descriptive Statistics; Expressions and Equations; and Quadratic Functions and Modeling. There will be a NYS Regents Examination administered in June. (Use of a graphing calculator, TI-84+, is required.)

### Algebra 1A

Credit: 1 unit                      Length: 40 weeks

Prerequisite: Teacher recommendation

The fundamental purpose of Algebra 1A is to formalize and extend the mathematics that students' learned in the middle grades during the course of their freshman year and then to continue this coursework into their sophomore year (Algebra 1B Next Gen). The critical areas, called clusters, deepen and extend understanding of linear and exponential relationships by contrasting them with each other and by applying linear models to data that exhibit a linear trend, and students engage in methods for analyzing, solving and using quadratic functions. The Mathematical Practice Standards apply throughout each course and together with the content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations. Over a two year period (Algebra 1A & Algebra 1B), the critical areas of learning include: Relationships between Quantities and Reasoning with Equations; Linear and Exponential Relationships; Descriptive Statistics; Expressions and Equations; and

Quadratic Functions and Modeling. There will be a local final examination administered in June. (Use of a graphing calculator, TI-84+, is required.)

### Algebra 1B

Credit: 1 unit                      Length: 40 weeks

Prerequisite: Successful completion of Algebra 1A

The fundamental purpose of Algebra 1B is to formalize and extend the mathematics that students' learned during their freshman year, while enrolled in Algebra 1A. The critical areas, called units, deepen and extend understanding of linear and exponential relationships by contrasting them with each other and by applying linear models to data that exhibit a linear trend, and students engage in methods for analyzing, solving and using quadratic functions. The Mathematical Practice Standards apply throughout each course and together with the content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations. Over a two year period (Algebra 1A & Algebra 1B), the critical areas of learning include: Relationships between Quantities and Reasoning with Equations; Linear and Exponential Relationships; Descriptive Statistics; Expressions and Equations; and Quadratic Functions and Modeling. There will be a NYS Regents Mathematics Examination administered in June. (Use of a graphing calculator, TI-84+, is required.)

### Geometry

Credit: 1 unit                      Length: 40 weeks

Prerequisite: Successful completion of Algebra and Teacher/Counselor Recommendation. Within this course, students will have the opportunity to make conjectures about geometric situations

and prove in a variety of ways, both formal and informal, that their conclusion flows logically from their hypotheses. This course will include, not will not be limited to: transformations, geometric relationships, properties or geometric figures, and congruence and similarity. There will be a local exam administered in June. This sequence does not lead to an Advanced Designation Diploma.

### Geometry R

Credit: 1 unit

Length: 40 weeks

Prerequisite: Successful completion of Algebra

The fundamental purpose of Geometry is to formalize and extend students' geometric experiences from previous learning. Students explore more complex geometric situations and deepen their explanations of geometric relationships, moving towards formal mathematical arguments. Important differences exist between this Geometry course and the historical approach taken in Geometry classes. For example, transformations are emphasized early in this course. The Mathematical Practice Standards apply throughout each course and, together with the content standards, prescribe that students experience mathematics as a coherent, useful, and local subject that makes use of their ability to make sense of problem situations. The critical areas include: Congruence, Proofs and Constructions; Similarity, Proof & Trigonometry; Extending to Three Dimensions; Connecting Algebra and Geometry through Coordinates; Circles With and Without Coordinates. There will be a NYS Regents Examination administered in June. (Use of a graphing calculator, TI-84+, is required.)

### Honors Geometry R

Credit: 1 unit

Length: 40 weeks

Prerequisite: Successful completion of Algebra 1 in 8th grade/Enriched Algebra 1 or teacher recommendation

The fundamental purpose of Honors Geometry is to formalize and extend students' geometric experiences from previous learning. Students explore more complex geometric situations and deepen their explanations of geometric relationships, moving towards formal mathematical arguments. Important differences exist between this Geometry course and the historical approach taken in Geometry classes. For example, transformations are emphasized early in this course. Close attention should be paid to the introductory content for the Geometry conceptual category found in the high school State Standards. The Mathematical Practice Standards apply throughout each course and, together with the content standards, prescribe that students experience mathematics as a coherent, useful, and local subject that makes use of their ability to make sense of problem situations. The critical areas include: Congruence, Proofs and Constructions; Similarity, Proof & Trigonometry; Extending to Three Dimensions; Connecting Algebra and Geometry through Coordinates; Circles With and Without Coordinates. There will be a NYS Regents Examination administered in June. (Use of a graphing calculator, TI-84+, is required.)

### Math Applications

Credit: 1 unit

Length: 40 weeks

Prerequisite: Successful completion of Geometry R or Geometry

Math applications is designed for students to meet their third credit requirement at the commencement level. This course will provide a variety of everyday problem

solving situations. Students will learn the necessary mathematical skills needed to solve the presented mathematics courses. This course will provide students the option to continue on to Algebra 2A. This course will have a midterm and final project.

### Algebra 2A

Credit: 1 unit

Length: 40 weeks

Prerequisite: Successful completion of Geometry R, Math Applications or Teacher Recommendation

Algebra 2A is a continuation and extension of Algebra and Geometry, and is the first of a year and a half course sequence leading to the Mathematics requirement for a "Regents Diploma with Advanced Designation". While developing the algebraic techniques that will be required of those students that continue their study of mathematics, this course is also intended to continue developing alternative solution strategies and algorithms. For example, technology can provide to many students the means to address a problem situation to which they might not otherwise have access.

Within this course, the number system will be extended to include imaginary and complex numbers. The families of functions to be studied will include polynomial, absolute value, radical, exponential, and logarithmic functions. Problems resulting in systems of equations will be solved graphically and algebraically. Algebraic techniques will be developed to facilitate rewriting mathematical expressions into multiple equivalent forms. This course will have a local exam administered in June.

### Algebra 2B

Credit: ½ unit

Length: 20 weeks

Prerequisite: Successful completion of Algebra 2A

Algebra 2B is a continuation and extension of the Algebra 2A course that preceded it and the capstone of a sequence towards a

"Regents Diploma with Advanced Designation". Arithmetic and geometric sequences will be expressed in multiple forms, and arithmetic and geometric series will be evaluated. The families of functions to be studied will include trigonometric functions of sine, cosine, tangent, secant and cosecant. Binomial experiments will provide the basis for the study of probability theory, and the normal probability distribution will be analyzed and used as an approximation for these binomial experiments. Right triangle trigonometry will be expanded to include the infestation of circular functions. Data analysis will be extended to include measures of dispersion and the analysis of regression that model functions studies throughout this course. Associated correlation coefficients will be determined, using technology tools and interpreted as a measure of strength of the relationship. Problem situations requiring the use of trigonometric equations and identities will also be investigated. There will be a NYS Common Core Regents Examination administered in January. (Use of a graphing calculator, TI-84+, is required.)

### Algebra 2

Credit: 1 unit

Length: 40 weeks

Prerequisite: Successful completion of Geometry R

Algebra 2 is the capstone course for the examination required for a "Regents Diploma with Advanced Designation". This course is a continuation and extension of the two courses that precede it. While developing the algebraic techniques that will be required of those students that continue their study of mathematics, this course is also intended to continue developing alternative solution strategies and algorithms. For example, technology can provide to many students the means to address a problem situation to which they

might not otherwise have access. Within this course, the number system will be extended to include imaginary and complex numbers. The families of functions to be studied will include polynomial, absolute value, radical, trigonometric, exponential and logarithmic functions. Problem situations involving direct and indirect variation will be solved.

Problems resulting in systems of equations will be solved graphically and algebraically. Algebraic techniques will be developed to facilitate rewriting mathematical expressions into multiple equivalent forms. Data analysis will be extended to include measures of dispersion and the analysis of regression that model functions studied throughout this course. Associated correlations coefficients will be determined, using technology tools and interpreted as a measure of strength of the relationship. Arithmetic and geometric sequences will be expressed in multiple forms, and arithmetic and geometric series will be evaluated. Binomial experiments will provide the basis for the study of probability theory and the normal probability distribution will be analyzed and used as an approximation for these binomial experiments. Right triangle trigonometry will be expanded to include the investigation of circular functions. Problem situations requiring the use of trigonometric equations and identities will also be investigated. There will be a NYS Regents Examination administered in June. (Use of a graphing calculator, TI-84+, is required.)

### Precalculus

Credit: 1 unit

Length: 40 weeks

Prerequisite: Successful completion of Algebra 2

Precalculus is designed to provide students the foundation needed to be successful in college level Calculus. Topics include higher order polynomial equations, determinants, matrices, linear programming; exponential

and logarithmic functions; probability and statistics; sequences and series, trigonometric identities, and partial fractions. Rational functions are examined with the goal to be able to find limits and examine for discontinuance. Analytic Geometry will be explored with the emphasis on the measurements of distance, angles and area as well as 3-dimension. Throughout the course, emphasis will be put on developing problem solving skills. Students are encouraged to have a graphing calculator. There will be a local examination administered in June.

Articulation Agreement with SUNY Erie for course MT-180 Precalculus Mathematics. 4 credit course for a cost of approximately \$360.00.

### Intro to Statistics

Credit: ½ unit

Length: 20 weeks

Prerequisite: Successful completion of 2 or more years of high school math and teacher recommendation

Intro to Statistics is designed for students who successfully passed two years of high school math and wish to increase their understanding of data collection and analysis in applied settings. Much of the course will be devoted to project based learning activities that incorporate the fundamentals of statistics. This is an excellent course for students wanting to take Statistics but may not be ready for the rigor of a full year of College Stats. Topics will include regression, measures of central tendency, correlation, explaining and interpreting statistical analysis, planning and implementing experiments, anticipating patterns and interpreting real world data.



## AP Calculus

Credit: 1 unit

Length: 40 weeks

Prerequisite: Successful completion of Pre-calculus or Teacher recommendation.

AP Calculus is designed to give students an opportunity to take a college level Calculus class. It is necessary for students in this course to bring a TI-84 Plus graphing calculator or a TI-89 calculator to class each day. Students are required to sit for an AP examination in May of their senior year. A score of 3, 4, or 5 will possibly allow the student to receive college credit for this course. This is a first year college level course with an emphasis on the derivative and the integral and their applications.

Students will be required to sit for the AP exam in May. The AP exam fee is covered by the district.

## NU Statistics

Credit: 1 Unit

Length: 40 Weeks

Prerequisite: successful completion of Algebra 2,, Teacher recommendation and an overall cumulative average of 80% or higher per Niagara University.

The purpose of this course is to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to four broad conceptual themes: 1) Exploratory Analysis 2) Studies and Experiments 3) Probability 4) Statistical Inference. It is necessary for students to bring their own TI-83+ or TI-84+ (preferred) graphing calculator. There will be a local examination administered at the end of the course.

Articulation Agreement with Niagara University for course MAT-102 Statistics. The cost of the course is approximately \$300. Students that are eligible for free and reduced lunch can receive financial assistance and a reduced rate of \$60 through Niagara University.

$$\begin{array}{c} 2 > -3 \\ 0.999... = 1 \\ \pi \approx 3.14 \\ \sqrt{2} \\ 1 + 2 \cdot 3 \\ 5(2 + 2) \\ 101_2 = 5_{10} \end{array} \quad \begin{array}{c} + \\ - \\ \times \\ \div \\ \infty \end{array}$$



# Music

The Music department provides an atmosphere which enhances “Striving for Excellence”. Students use their knowledge and skills to have personally rewarding musical experiences in performing groups, small ensembles, lessons, and classroom music.

## COURSE OFFERINGS

<u>Course</u>	<u>Credit</u>	<u>Length</u>	<u>Type of Exam</u>
Treble Choir	1 unit	40 weeks	Local
Orchestra	1 unit	40 weeks	Local
Concert Band	1 unit	40 weeks	Local
AP Music Theory	1 unit	40 weeks	AP
Music Theory	1 unit	40 weeks	Local
Concert Choir	1 unit	40 weeks	Local
Fundamentals of Guitar	½ unit	20 weeks	Local
Fundamentals of Guitar II	½ unit	20 weeks	Local
Chamber Chorus	1 unit	40 weeks	Local
Theater Art	1 unit	40 weeks	Local
Chorale	1 unit	40 weeks	Local
Choraliers (9th grade Only)	1 unit	40 weeks	Local
Wind Ensemble	1 unit	40 weeks	Local
History of Classical Music	1 unit	40 weeks	Local
Bel Canto Singers	1 unit	40 weeks	Local
Jazz Ensemble	1 unit	40 weeks	Local
String Ensemble	1 unit	40 weeks	Local

### Concert Band

Credit: 1 Unit Length: 40 Weeks

Band is a large performing ensemble designed to allow the student to experience music and transcriptions for the wind band by performing in rehearsals and concerts. Weekly lessons on the student’s instrument are an integral part of the learning experience, with the band rehearsals and concerts intended to be a medium for applying musical skills. Band members participate in several scheduled evening concerts and other special events

throughout the year. Concerts are required and should be likened to tests.

### Treble Choir

Credit: 1 Unit

Length: 40 Week

Prerequisite: Audition in spring of previous year.

Selection by Director Only

Treble Choir is a select chorus comprised of sophomore, junior, and senior treble voices with previous choral experience. Students are selected based on vocal and sight reading ability, in addition to personal commitment and responsibility. Treble Choir performs throughout the community as well

as in department performances and festivals. Concerts are required and should be likened to tests. Voice labs offered on a rotating basis to all students.

### Music Theory

Credit: 1 Unit                      Length: 40 Weeks  
Prerequisite: Experience in Band, Orchestra and/or Chorus or permission of the Instructor.

Music Theory is a course designed to enhance music skills and basic music fundamentals. The essential aspects of melody, harmony, rhythm, and form are studied. Throughout the course of the year students will study basic notation, scales, key signatures, intervals, triads, cadences, non-chord tones, form, part-writing and analysis of a score. Aural dictation and ear training are also an integral part of the course and will be taught throughout the year. This course is highly recommended for students in a music ensemble, and is a prerequisite for AP Music Theory.

### Orchestra (East)

Credit: 1 Unit                      Length: 40 Weeks  
Prerequisite: Audition or recommendation of the director

Orchestra is comprised of string players who have been playing their instrument for at least one year. Orchestra performs many works by famous composers, along with contemporary and light popular tunes. Orchestra regularly performs concerts throughout the year at school and in the community. Each string player receives one lesson per week. Concerts are required and should be likened to tests.

### Concert Choir (East)

Credit: 1 Unit                      Length: 40 Weeks  
Open to all students, grades 9-12. This course will study the production of vocal music and choral and solo settings. Students will be given the opportunity to perform on a

daily basis and will learn the techniques of vocal production. Students will also learn to read music and explore a wide range of music from classical to folk to pop. Vocal labs will be offered on a rotating basis to all students involved in High School Chorus. Concerts are required and should be likened to tests.

### Fundamentals of Guitar (East)

Credit: 1/2 Unit                      Length: 20 Weeks  
\*This course satisfies ½ the Art/Music requirement for graduation.

Fundamentals of guitar is a one semester course covering the basics of the instrument and an application of essential music fundamentals. Students will learn the basics of playing guitar at a beginning level through studying music notation, chord symbols, and peer modeling. A brief history of guitar along with a study of its respective musical styles will also be covered in this course.

### Fundamentals of Guitar II (East)

Credit: 1/2 Unit                      Length: 20 Weeks  
Prerequisite: Fundamentals of Guitar  
\*This course satisfies ½ the Art/Music requirement for graduation.

Fundamentals of Guitar II will cover advanced knowledge of the guitar and application of essential music fundamentals. Students will build upon skills previously learned and continue to study music notation, chord symbols, and peer modeling. This class will perform as an ensemble in either the winter or spring concert.

### Chamber Chorus (East)

Credit: 1 Unit                      Length: 40 Weeks  
Audition Only - by permission of instructor.  
In order to achieve a balance of voices, it is necessary to limit females according to number of males accepted. A desire to sing all types of music from sacred to classical, as well as the desire to excel as a vocalist is

required. Many performers are required (upwards of eight). Auditions are done in late April. Voice labs are offered to all students in the vocal performing ensembles who perform Erie County or NYSSMA solos. Concerts are required and should be likened to tests.

### Theater Art (East)

Credit: 1 Unit      Length: 40 Weeks  
Prerequisite: Grade 10, 11, 12

Theater Arts is a course designed to introduce students to the various elements of the theatre and to encourage students in further participation. Students will examine and study the role that acting, directing, sound, lights, set, costumes, make-up, and publicity play in the creation of a live production. Students will also learn the basic approach to working comfortable on the stage, through warm-ups, monologues, scene work and improvisation. Basic techniques of movement, voice projection, character development, and performance will be taught. Students will attend and analyze professional productions during the year and work with guest speakers in the theater community.

### AP Music Theory

Credit: 1 Unit      Length: 40 Weeks  
Prerequisite: Music Theory I, or permission of the Instructor.

AP Music Theory is an advanced course in aural perception and harmony. Students will learn music notation, and composition as it applies to four-part harmony. Students will be required to read, notate, perform and compose music. Musical skills will be developed through listening exercises, sight-singing examples, written exercises, analysis, and an exposure to a variety of musical styles. Students will take the Advanced Placement examination in May. Students wishing to pursue a major in music

will find this course to be essential as they prepare for college auditions and coursework.

### Chorale (West)

Credit: 1 Unit      Length: 40 Weeks  
Grades 10, 11 and 12

Chorale is composed of all upper class singers who wish to sing. Chorale presents concerts at school once per quarter. Concerts are required and should be likened to tests.

### Choraliers (West)

Credit: 1 Unit      Length: 40 Weeks  
Prerequisite: 9th Graders only

Choraliers is composed of all first year choral singers new to West Senior. This chorus presents concerts at school and occasionally sings in festivals. Concerts are required and should be likened to tests.

### Bel Canto Singers (West)

Credit: 1 Unit      Length: 40 Weeks  
Prerequisite: Audition in spring of previous year.  
Selection by Director Only

Bel Canto Singers is a select chorus comprised of sophomore, junior and senior students. Students are selected based on vocal and sight-reading ability, in addition to personal commitment and responsibility. Bel Canto Singers perform throughout the community as well as in department performances and festivals. Concerts are required and should be likened to tests.

### Jazz Ensemble (West)

Credit: 1 Unit      Length: 40 Weeks  
Prerequisite: Audition or recommendation of the teacher.

Jazz Ensemble is a select performing group. It is composed of students who play saxophone, trumpet, trombone, piano, bass, guitar, drum set and percussion. Strong focus will be given to performing and

studying the works of major jazz masters. Students will gain an understanding of the different stylistic elements and historical periods of Jazz music. The Jazz Ensemble not only performs for our annual school concerts, but also performs for engagements outside of school. Membership in this organization is contingent upon permission of the conductor. The instrumentalists in this group receive one instrumental lesson per week. Concerts are required and should be likened to tests.

### History of Classical Music (West)

Credit: 1 Unit      Length: 40 Weeks

Grades 10, 11 and 12

Why didn't Beethoven listen to his own music? Why was Mozart's father so angry? How did Haydn surprise his audience? Find out the answers to these questions and more, as we study the great eras of Classical Music History. In this class, we will learn about the great composers of the Baroque, Classical, Romantic and Modern eras, and investigate how they influenced the music that we hear today. As we study music of the Twentieth Century, influences of Jazz, Musical Theater and the Great American Songbook will also be discussed. This class will provide music students with a better understanding of the music they perform in their ensembles and choirs, as well as provide a strong background for future college Music History studies.

### String Ensemble (West)

Credit: 1 Unit      Length: 40 Weeks

Prerequisite: Audition in spring of previous year.

Selection by Director Only

String Ensemble is a select string orchestra. Students must have previous orchestral experience and show a high level of responsibility and commitment. Students will be exposed to more advanced string literature. Students receive one lesson per week. String Ensemble performs regularly throughout the school year at school and in

the community, and also competes at state festivals. Concerts are required and should be likened to tests.

### Wind Ensemble (West)

Credit: 1 Unit Length: 40 Weeks

Prerequisite: Audition in Spring of previous year.

Selection by Director Only

Wind Ensemble is a select concert band composed of instrumental music students. Students receive one lesson per week and perform in concerts throughout the year in school and in the community. Concerts are required and should be likened to tests.

### Orchestra (West)

Credit: 1 Unit Length: 40 Weeks

Prerequisite: Audition or recommendation of the director

Orchestra is composed of string players in grades 9-12 who have been playing their instrument for at least one year. Orchestra performs many works by famous composers, along with contemporary and light popular tunes. Orchestra regularly performs concerts throughout the year at school and in the community. Each string player receives one lesson per week. Concerts are required and should be likened to tests.

### **Marching Band**

The West Seneca Marching Band is the marching-music representative of the West Seneca Central Schools music program. Using music and visual performance as the educational means, the band strives for excellence by promoting the values and leadership, pride and dedication through a team spirit. The band performs in competitions each fall, home football games and many local parades.

### **Tri-M Music Honor Society**

The Music Honor Society recognizes students who have achieved excellence in Music, as well as maintaining high academic standards. These music students have been carefully selected on the basis of scholarship, character, leadership and service. Scholarship represents scholastic achievement and open-mindedness toward knowledge and truth. Character emphasizes a devotion to high ideals and recognizes no barriers between people of diverse backgrounds. Leadership guides us to greater undertakings, and service encourages assistance and kindness to others. All members must be currently enrolled in a curricular performing ensemble, maintain an overall average of 90 or higher in all music classes, and maintain an overall average of 90 or higher. Each candidate for student membership is required to perform a solo at either an ECMEA All-County audition, a NYSSMA Festival or a school concert.

# Physical Education

The content of Physical Education involves the art and science of human movement. Physical Education is a multifaceted participation discipline, which focuses on individual, dual and team concepts, as related to growth and development through physical activity. Its basis is made up of activities that promote knowledge of, and skills necessary to a healthy lifestyle. This includes cooperative learning, trust, teamwork, and positive self-awareness.

## Physical Education

Credit: 1/2 Unit      Length: 40 Weeks

All students are required by New York State Education Law to take Physical Education for four years, receiving .5 credits per year for 2 full credits to meet graduation requirements. Physical, mental, social and emotional development are integral parts of physical education. Through the medium of Physical Education, these areas can be developed.

A wide variety of activities are offered at these levels. Team sports and cooperative games are included with an emphasis on individual and lifetime activities. Periodically students are given the opportunity to select these activities. Participation and successful completion of the swimming unit is required for all students in grades 9 and 10. A student who is not able to participate in the normal physical education program, may have his/her program modified within the structure of the regular class. The nature of the activities is based on recommendations of the student's personal physician. Defined areas of activity are team passing games, net/wall sports, striking/fielding sports, target sports, dance and aesthetic activities, outdoor activities, personal performance activities and fitness activities. Required dress for safety and movement: sneakers, shorts or sweatpants, t-shirt or sweatshirt.

## Program objectives for grades 9-12 are to:

1. Develop higher levels of competency in skills and knowledge
2. Nurture positive attitudes toward physical fitness
3. Practice activities which will encourage appropriate behaviors
4. Gain confidence in and a sense of well-being in cooperative learning skills
5. Develop an understanding of proper nutritional habits
6. District-wide rubrics have been established for the curriculum. Areas of assessment include: effort, skill, respect, initiative, individual and team play.
7. Develop an appreciation for different sports/activities.

**\*NYS requires all students in high school to be provided instruction in hands-only CPR and the use of an AED. This instruction is required for students to successfully meet graduation requirements. If a student is absent during this instruction it must be made-up.**

## PHYSICAL EDUCATION AND ATHLETES

Student-athletes are required to participate in Physical Education class in order to be eligible to practice or play in a game.



## Physical Education - Unified

Credit: 1/2 Unit      Length: 40 Weeks

Grades 11/12: [East](#)    Grade 12: [West](#)

Unified Physical Education is an inclusive program designed to foster a sense of community, support development across all abilities, and promote a positive social and physical environment for students. The class blends students of varying abilities, including those with disabilities and those without, creating a space for students to interact, learn and grow together.

### Key aspects include:

Inclusivity: By integrating students with and without disabilities, Unified PE ensures an inclusive environment where everyone has an opportunity to participate in physical activities, regardless of individual ability.

Program Objectives: Movement confidence and competence: students gain confidence in their ability to perform physical activities, helping them develop essential motor skills.

Understanding of Rules and Strategies: The program emphasizes understanding the rules and strategies of different physical activities, providing students with a deeper appreciation for the games and sports they participate in.

Positive Habits and Reasoning: Unified PE encourages positive behaviors such as teamwork, discipline, and respect, while also teaching students how to make strategic decisions during activities.

Social & Leadership Skills: A significant benefit of Unified PE is its focus on developing social and leadership competencies. Students are encouraged to work collaboratively, support each other, and demonstrate leadership in various activities.

College and Career Readiness: Unified PE also aims to increase college and career readiness by teaching important life skills including problem-solving, communication and teamwork.

Structure: Unified PE is built around national physical education standards, ensuring that students meet grade-level outcomes in both physical and educational contexts.

## Lifeguarding

Credit: 1/2 Unit      Length: 20 Weeks

The purpose of the American Red Cross Lifeguarding course is to teach candidates the knowledge and skills needed to prevent and respond effectively to aquatic emergencies and prevent drownings and injuries. Successful completion requires full and active participation in all land and water skills practice. The practice sessions will require some strenuous physical activity. Students are encouraged to check with their healthcare professional before enrolling in the course.

To be eligible to receive the Red Cross Lifeguarding certification you must be 15 years of age before the last scheduled class **AND** be able to successfully demonstrate the following skills:

- Swim 300 yards continuously, using these strokes in the following order:
  - 100 yards of front crawl using rhythmic breathing and a stabilizing, propellant kick. Rhythmic breathing can be performed either by breathing to the side or the front.
  - 100 yards of breaststroke using a pull, breath, kick and glide sequence.



- 100 yards of either the front crawl or breaststroke, The 100 yards may be a combination of front crawl and breaststroke.

Note: There is no time requirement for this skill. The candidates must show only that they can swim 300 yards using the above strokes without stopping. The purpose of the swim is to demonstrate comfort in the water.

- Starting in the water
  - swim 20 yards using front crawl or breaststroke
  - surface dive 7-10 feet
  - retrieve a 10 pound object, return to the surface
  - swim 20 yards back to the starting point with the object and exit the water without using a ladder or steps, within 1 minute 40 seconds. NO GOGGLES ALLOWED
  - Tread water for 2 minutes with both hands out of the water.

Note: When returning to the starting point, the participants must hold the 10-pound object with both hands, placing the brick on their chest, and must keep their face above the water. The time is complete once the participant has exited the water and is standing up on the pool deck. The purpose of the timed event is to ensure that the participant demonstrates comfort in the water, along with enough speed, strength and endurance to perform a combination of basic skills that are required and built upon throughout the course.

#### Certification Requirements

- Demonstrate competency in all required skills and activities.
- Demonstrate competency in the three final skill scenarios.
- Correctly answer at least 80 percent of the questions in the three sections of the final written exam.

#### Certificate Issued and Validity Period

CPR/AED for the Professional Rescuer and First Aid: 2 years Lifeguarding: 2 years

# Science

- Academy of Life Science



Students will explore various areas of interest concerning life, earth and physical sciences. Laboratory oriented courses will enable students to use reason, memory, imagination and the scientific method of inquiry. Students will learn the basic principles of each subject area and will be helped to apply these concepts to everyday life as well as to future studies. Course selections are designed to accommodate the capabilities and backgrounds of each student. Any student planning on attending a four year college should take four years of Regents/AP Science courses.

## COURSE OFFERINGS

<u>Course</u>	<u>Credit</u>	<u>Length</u>	<u>Type of Exam</u>
Physical Setting/Earth & Space Science w/ Lab	1 unit	40 weeks	Regents
Biology with Lab	1 unit	40 weeks	Regents
Biology with Lab Honors	1 unit	40 weeks	Regents
Biology AP	1 unit	40 weeks	Regent/Local & AP
Physical Setting/Chemistry with Lab	1 unit	40 weeks	Regents
General Chemistry	1 unit	40 weeks	Local
Adv. Forensics (SUPA Syracuse Univ. Project Adv)	1 unit	40 weeks	SU
Forensic Science	1 unit	40 weeks	Local
Astronomy	½ unit	20 weeks	Local
Physical Setting/Physics with Lab	1 unit	40 weeks	Regents
Environmental Science	1 unit	40 weeks	Local
Chemistry AP	1 unit	40 weeks	Local & AP

### Physical Setting/Earth & Space Science w/Lab

Credit: 1 Unit      Length: 40 Weeks

This course follows the curriculum outlined by the New York State Science Learning Standards, focusing equally on the Disciplinary Core Ideas, Cross Cutting Concepts and Science and Engineering Practices. Students will explore a range of phenomena throughout the course to build a foundation in the following concepts: Space Systems; History of the Earth; Earth's

Systems; Weather and Climate; and Human Sustainability. This is a course of study designed to engage students in investigating their world and integrating scientific principles and attitudes to gain a new understanding of the world around them, and the processes of change. An inquiry-oriented approach is used to study meteorology, climate, geology and astronomy. This course uses Earth and Space Science phenomena as a means for

learning how to interpret observations, reason from observation, build and interpret models from observations and apply the concepts learned. This course provides a strong foundation for Chemistry, Physics and upper level electives. This is a laboratory-based program that requires students to draw inferences, analyze data and interpret the environment. As a prerequisite for admission to the Regents exam, students must have successfully completed 1200 minutes of laboratory experience with satisfactory written reports for each laboratory investigation.

#### Physical Setting/Physics with Lab

Credit: 1 Unit                      Length: 40 Weeks

Prerequisite: Successful completion of Algebra and Geometry and Alg 2 or currently enrolled in Alg 2

The Regents Physics course presents a modern view of Physics with major emphasis placed on the topics of mechanics, waves, electricity, the standard model of the atom, and modern Physics. The course will culminate with a Regents exam in June. As a prerequisite for admission to the Regents exam, students must have successfully completed 1200 minutes of laboratory experience with satisfactory written reports for each laboratory investigation.

#### Physical Setting/Chemistry with Lab

Credit: 1 Unit                      Length: 40 Weeks

Prerequisite: Successful completion of Algebra and Geometry CC or currently enrolled in Geometry CC

The Regents Chemistry course focuses on the study of our physical world. An emphasis is placed on developing students' understanding of scientific concepts, relationships, processes, mechanisms and models that explain phenomena related to matter and energy. This course allows students to apply their developing understanding of the physical world in ways that challenge their critical thinking and

creative reasoning skills. The course will culminate with a Regents exam in June. As a prerequisite for admission to the Regents exam, students must have successfully completed 1200 minutes of laboratory experience with satisfactory written reports for each laboratory investigation.

#### Regents Life Science: Biology with Lab

Credit: 1 Unit                      Length: 40 Weeks

This course is designed for students to perform the science and engineering practices to develop an understanding of real world phenomena. Learning experiences revolve around understanding processes necessary to sustain life from the cellular level to the environmental level while also developing an understanding of the process of science. Cross cutting concepts are used to develop connections between various scientific topics.

The course will culminate with a Regents exam in June. As a prerequisite for admission to the Regents exam, students must have successfully completed 1200 minutes of laboratory experience including the three New York State required investigations with satisfactory written reports for each laboratory investigation.

#### Life Science: Biology with Lab - Honors

Credit: 1 Unit                      Length: 40 Weeks

Prerequisite: Earth Science and Teacher recommendation.

This course is designed for talented ninth grade students who, upon completion of this course, are expected to enroll in the AP Biology program designed for the academically talented students in science. While preparing students for the Regents Life Science: Biology examination, Honors Regents Life Science: Biology challenges students to develop an in-depth understanding of biology (cellular biology,

human physiology, genetics, evolution, and ecology) with the addition of basic chemical concepts, as well (atomic structure, bonding, periodic table). Students will also engage in the science and engineering practices and apply the cross cutting concepts to scientific topics. This curriculum provides students with opportunities to challenge themselves beyond the Regents Life Science: Biology program through scientific inquiry, laboratory investigations and out of class experiences. The course will culminate with a Regents exam in June. As a prerequisite for admission to the Regents exam, students must have successfully completed 1200 minutes of laboratory experience including the three New York State required investigations with satisfactory written reports for each laboratory investigation.

### General Chemistry

Credit: 1 Unit

Length: 40 Weeks

General Chemistry focuses on the study of our physical world. An emphasis is placed on developing students' understanding of scientific concepts, relationships, processes, mechanisms and models that explain phenomena related to matter and energy. This course allows students to apply their developing understanding of the physical world in ways that challenge their critical thinking and creative reasoning skills. The course will culminate with a Local exam in June. There is no laboratory component to this course.

### Environmental Science

Credit: 1 Unit

Length: 40 Weeks

Prerequisite: Counselor and teacher recommendation.

"Generation Green: Think Globally, Act Locally" Students will embark on a comprehensive journey through environmental science while investigating

the impact of an expanding human population on planet Earth. The course will provide a foundation in the ecology of land, freshwater and marine environments. Students will develop a deep understanding and appreciation for our local ecology and the Great Lakes. Students will explore environmental issues through case studies and project based research. At completion of the course, students will recognize the interdependence between human activities and the environment, preparing them to contribute to sustainable solutions for the future. Science for science credit. Environmental Science is a third-year science course to be taken after successful completion of Biology and Earth and Space Science.

### Adv.Forensic Science - SUPA (Syracuse Univ Project Adv.)

Credit: 1 Unit

Length: 40 Weeks

Prerequisite: Teacher recommendation and successful completion of Regents Chemistry or Regents Physics.

Forensic Science is focused upon the application of scientific methods and techniques to crime and law. Recent advances in scientific methods and principles have had an enormous impact upon law enforcement and the entire criminal justice system. In this course, scientific methods specifically relevant to crime detection and analysis will be presented. Emphasis is placed upon understanding the science behind the techniques used in evaluating physical evidence. Topics included are blood analysis, organic and inorganic evidence analysis, microscopic investigations, hair analysis, DNA, drug chemistry and toxicology, fiber comparison, glass composition and fragmentation, fingerprints, soil comparisons, and forensic anthropology,

among others. This hands-on course is designed for seniors looking to further their studies in science.

A college level textbook is utilized throughout the course. There is a fee of \$115/credit payable to Syracuse University to register for this course (\$460). Students who successfully complete the course with a 73 or higher will receive 4 college credit hours, transferable to most institutions.

### Forensic Science

Credit: 1 Unit

Length: 40 Weeks

Prerequisite: Regents Chemistry or Regents Physics or General Chemistry with teacher recommendation, or simultaneously enrolled in Regents Chemistry or Physics.

This course is based on the scientific methods used to solve crimes within the scope of the law. It is intended to provide an introduction to understanding the science behind crime detection. Emphasis is placed upon understanding the science behind the techniques used in evaluating physical evidence. Topics included are blood analysis, microscopic investigations, hair analysis, DNA, drug chemistry and toxicology, fiber comparisons, and fingerprints, among others. This hands-on course is designed for seniors looking to further their studies in science. It is taught at a college level intensity and closely mirrors the SUPA Forensics course and will be challenging. A high school level textbook is used in conjunction with this course.

### Biology AP

Credit: 1 Unit

Length: 40 Weeks

Prerequisite: Teacher recommendation and student should be enrolled in or successfully completed Algebra. Recommended that students have an 85% or higher on the NYS Living Environment/Biology Regents exam

AP Biology is an introductory college-level biology course. Students cultivate their understanding of biology through inquiry-based investigations as they explore

the following topics: evolution, cellular processes, energy and communication, genetics, information transfer, ecology, and interactions. The AP Biology course is equivalent to a two-semester college introductory biology course for biology majors. Students should have successfully completed Biology and Chemistry or Biology with Honors. This course requires that 25 percent of the instructional time will be spent in hands-on laboratory work, with an emphasis on inquiry-based investigations that provide students with opportunities to apply the science practices.

### Astronomy

Credit: ½ Unit

Length: 20 Weeks

Prerequisite: [West](#) Grade 12 [East](#) Grades 11 & 12

Have you ever looked up at the night sky and wondered about space? Unlock and explore the mysteries of our universe in this one-semester high school Astronomy course. This course is broken up into five major units: Structure of Our Universe, Gravity and Motion, Light, Local/Backyard Astronomy, and Modern Astronomy. We will study topics such as the Big Bang, the scale of our universe, how astronauts “float” in space, orbits, the EM spectrum, how to locate and chart stars from Buffalo, NASA, space missions, and a culminating project on the potential of life on exoplanets in our solar system. We also attend a local planetarium show at the Whitworth Ferguson Planetarium at Buffalo State College. Can't wait for you to join this “out of this world” course!

### Chemistry AP

Credit: 1 Unit

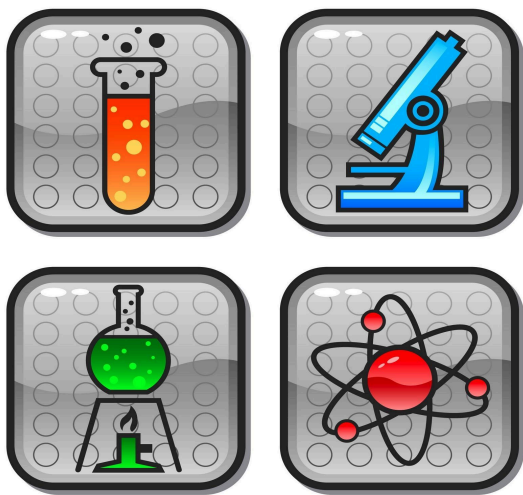
Length: 40 Weeks

Prerequisite: Teacher recommendation and successful completion of Regents Chemistry, Algebra, Geometry, and Alg 2 or currently enrolled in Alg 2. Recommended that students have an 85% or higher

on the NYS Living Environment/Biology and Earth Science Regents exams.

The AP Chemistry course provides students with a college-level foundation to support future advanced coursework in chemistry. Students culminate their understanding of chemistry through inquiry-based investigations, as they explore content such as: Atomic Structure and Properties, Compound Structure and Properties, Properties of Substances and Mixtures, Chemical Reactions, Kinetics, Thermochemistry, Equilibrium, Acids and Bases, Thermodynamics and

Electrochemistry. AP Chemistry is equivalent to a college-level general chemistry course. Students should have successfully completed an introductory high school chemistry course and Algebra II, or an equivalent course. This course requires that 25 percent of instructional time be spent in hands-on laboratory work, with an emphasis on inquiry-based investigations that provide students with opportunities to demonstrate the fundamental chemistry principles and apply the science practices.



# Academy of Life Science

Admissions to this school-within-a-school program is competitive. Students supplement their Regents program with a combination of medical courses and biotechnology. This path requires extra science coursework beyond Regents requirements. A college course is required along with an internship in a field related to career interests. It is recommended that students have an 85 average in Math and science to be accepted and successful in the Academy of Life Science.

## Academy Course Sequence

• Three Year Program •

<u>Grade Level</u>	<u>Course</u>	<u>Credit</u>
Ninth Grade-Recruitment, application, and selection of students	Science	1 unit
Tenth Grade	Medical Terminology	1 unit
	Science	1 unit
Eleventh Grade	Medical Ethics	½ unit
	College Career Portfolio & Internship Skills	1 unit
	Science	1 unit
Twelfth Grade* (Complete remaining Science Requirements (2 additional science courses)	Science	1 unit
	Science	1 unit
	Local College Course	College Credit
	Internship	½ - 1 unit

~Students are required to take a minimum of 5 credits of Science from the following course list:

Choose 3 of the following Courses:

- Earth Science with Lab
- Earth Science with Lab Enriched
- Living Environment/Biology with Lab
- Living Environment/Biology with Lab Enriched
- Chemistry with Lab
- Adv Forensics (SUPA)

\*Choose 2 of the following courses:

- Physics with Lab
- Biotechnology (West)
- Anatomy and Physiology
- AP Chemistry
- AP Biology

\*Any Life Science Academy Student that earns a 3, 4 or 5 on an AP Science Exam in their Sophomore or Junior year can be waived from taking a college course.

\*This academy program does not meet the requirements for a world language bypass for the Advanced Designation Diploma

The Academy is supported by an Advisory Board which currently includes the following companies, organizations and colleges:

West Seneca Central Schools • Greatbatch, Inc. • Canisius College Medical Laboratory • The Binding Site • IMMCO Diagnostics, Inc. • Trocaire College • Caplugs • David Clifford, M.C., ABFP • Computer Task Group • ZeptoMetrix Corp. • Niacet Corporation • SciBiz International • Tapecon • Mentholatum • TMP Technologies, Inc. • Kinex • Advantage Home Telehealth • Ivoclar Vivadent • Clinical Support Services, LLC. • Western New York Independent Living • Aerotek • Niagara University • ECC • University of Buffalo • HWI • Polymer Conversions, Inc. • Roswell Park Cancer Institute • AirSep Corp./Chart Industries • Surgical Repairs International • Evolution Dental • VWR • Value Centric, LLC • Honeywell • Superior Group • Sefar Filtration, Inc. • Kinex • Great Lakes Orthodontics, Ltd. • Reichart, Inc. • Buffalo BioBlower Technologies, Ltd. • Audobon Machinery, Company • Rheonix • AccuMed. • Precision Scientific Instruments • ParMed Pharmaceuticals, Inc. • QuadPharma • VIP/VAL Med Pharmaceuticals, Inc. • Praxair • Buffalo Filter • Life Technologies • AHRM, Inc. • Applied Medical Coating • Harker Bio • SR Instruments, Inc. • Frontier Science and Technology • NYS Center for Excellence. • Kinex • AndroBioSys, Inc. • Harmac Medical Products, Inc. • Accellent, Inc. • The Jacobs Institute • Plastic Weld Systems • TNT Moborg International, LTD • American Dental Partners, WNY • Safetec of America, Inc. • Fresenius-Kabi

### Anatomy and Physiology

Credit: 1 Unit      Length: 40 Weeks

Anatomy and Physiology is an advanced Life Science course designed primarily for students in the Life Science Academy.

Anatomy and Physiology is a well-established component of a comprehensive life science program and, as such, will focus on the structure and function of cells, tissues, organs and organisms. Students will be required to identify anatomical structures and demonstrate an understanding of their functions. This course is required for Life Science Academy students in the Laboratory Science strand and Regents Biology and Regents Chemistry are prerequisites.

### Medical Law and Ethics

Credit: 1/2 Unit      Length: 20 Weeks

Medical Law and Ethics provides an overview of the laws and ethics a student should know to help them provide competent, compassionate care to patients and complete life science related research that is within acceptable legal and ethical boundaries. The course will provide guidance to help resolve the many legal and ethical questions a student may reasonably expect to encounter. This is a required

course for students in the Life Science Academy and recommended for any student planning to pursue a career in Life or Health Sciences.

### Biotechnology ([West Senior](#))

Credit: 1 Unit      Length: 40 Weeks

Biotechnology is an advanced Academy of Life Science course designed primarily for students enrolled in the academy. The course encourages students to apply their knowledge of biology to investigate useful products and processes produced within the Life Sciences/Health Science industries. There is an emphasis on laboratory skills, analyzing data, and communicating results. Topics covered include Microbiology, DNA, Genetic Engineering, Polymerase Chain Reaction, Proteins, Immunology, and Research. Priority given to AOLS students. Regents Chemistry is a prerequisite.

### Medical Terminology

Credit: 1 Unit      Length: 40 Weeks

A course for students interested in health sciences professions designed to provide skill in understanding and using medical terms. This course introduces the fundamentals of word analysis, orientation



to the body as a whole and common prefixes and suffixes. Anatomic and physiologic terminology, pathological terminology, clinical procedures, laboratory tests, abbreviations and correct spelling and pronunciation of medical terms relating to the body systems are stressed. Many body systems are included, such as digestive, urinary, male and female reproductive, nervous and cardiovascular systems.

### College Career Portfolio & Internship Skills

Credit: 1 Unit

Length: 40 Weeks

This hands-on course will introduce students to the application of multimedia technology in the workplace. The course will explore evolving technologies including electronic presentations, Internet exploration, and desktop publishing while highlighting the interpersonal skills vital to a successful career. The Business and Education Employability Portfolio, an electronic portfolio, will be compiled highlighting the student's exemplary work and extracurricular activities during high school. The student's career exploration, personal profile and academic records will also be included in the portfolio.

This portfolio can be used for college applications and interviews, for scholarship applications and for workforce interviews.

This course will also highlight internship expectations and soft skills needed in industry as students work towards post-graduation career readiness.

## **Science Honor Society**

The Science Honor Society of the WSCSD is an exclusive organization that recognizes outstanding success in the sciences and promotes service to the school and local community.

The requirement(s) for Provisional Membership acceptance into the organization are:

- Students must successfully complete a minimum of two Regents\* or two AP science courses or a combination thereof, at the high school. Student performance at the middle school is not considered because this is strictly a high school organization; and

The requirement(s) for maintenance for Permanent Membership are:

- Students are required to maintain a minimum 90% cumulative average in Regents Level Science courses, or minimum 85% in AP science courses, Adv Forensics, Life Science Academy courses and
- Students must achieve mastery level (85% or higher) on ALL NYS Science Regents exams that are taken while at the high school and
- Students must be enrolled in at least one science course each year school year during all four years of high school and
- Students must log a minimum of 20 service hours over a two school year period: 10 hours of which must be completed while volunteering at school events or assisting in the science department and

Successful completion of the above criteria earns "Honor Cords" to be kept and worn at High School Graduation and Permanent Membership status into the Science Honor Society.

# Social Studies



The Social Studies Department is committed to providing, by various methods, the type of education which will produce students who:

1. Demonstrate self-discipline by accepting responsibility for their actions.
2. Show concern, tolerance and respect for others.
3. Manifest the skills necessary to be self-directed learners.
4. Have respect for and practice basic civic values and display the understanding and attitudes necessary to participate in democratic self-government.
5. Have the ability to analyze the effects of geography on the development of culture past and present.
6. Are able to explain the fundamental similarities and differences among major economic, social and political systems and how these systems function in an interdependent world.

## COURSE OFFERINGS

<u>Course</u>	<u>Credit</u>	<u>Length</u>	<u>Type of Exam</u>
Global History & Geography I	1 unit	40 weeks	Local
Global History & Geography I Honors	1 unit	40 weeks	Local
Global History & Geography II	1 unit	40 weeks	Regents
World History AP	1 unit	40 weeks	Regents & AP
U.S. History & Government	1 unit	40 weeks	Regents
American History AP	1 unit	40 weeks	Regents & AP
Principles of Economics	½ unit	20 weeks	Local
Participation in Government	½ unit	20 weeks	Local
Advanced Human Behavior (SUPA)*	½ unit	20 weeks	SU
Advanced Sociology (SUPA)*	½ unit	20 weeks	SU
AP U.S. Gov & Enr Economics	1 unit	40 weeks	AP & Local

\*Transcripted credit available through Syracuse University Project Advance

### Global History & Geography I

Credit: 1 Unit Length: 40 Weeks

The chronological, topical study of Global History I begins with prehistoric people and continues to the Age of Absolutism (1450-1750). Global History I is year one of a two-year sequence in Global History. During ninth grade, students begin with a general introduction to the main areas of study: geography, economics, political science, culture and history. The remainder of the course includes geographical and historical studies that are inclusive of the Ancient

World, Expanding Zones of Exchange, Global Interactions and The First Global Age. (Local Exam)

### Global History & Geography I Honors

Credit: 1 Unit Length: 40 Weeks

Prerequisite: Teacher Recommendation

This course is designed to offer a deeper dive around the key ideas that form the topics of the traditional Global 1 course. The chronological, topical study of Global History I begins with prehistoric people and continues to the Age of Absolutism (1450-1750). Global History I is year one of a

two-year sequence in Global History. During ninth grade, students will begin with an introduction to the main areas of study: geography, economics, political science, culture and history. The remainder of the course includes geographical and historical studies that are inclusive of the Ancient World, Expanding Zones of Exchange, Global Interactions and The First Global Age. This course will challenge students beyond the traditional course through activities designed to support inquiry-based learning and historical critical thinking skills. This course is intended for academically talented students who are prepared for exploring a more in-depth understanding of global history. (Local Exam)

### Global History & Geography II

Credit: 1 Unit      Length: 40 Weeks

Prerequisite: Global I

Global II continues the Chrono-thematic approach to Global History. Global II begins with a review of the Age of Absolutism and then continues through the major themes of: The Age of Revolution, Crisis and Achievement (1900-1945), the 20th Century since 1945, and Global Connections and Interactions. In addition, students investigate issues and themes from multiple perspectives and make global connections and linkages that lead to an in-depth understanding of world history and geography. (Regents Exam)

### World History AP

Credit: 1 Unit      Length: 40 Weeks

Prerequisite: Global I and Teacher Recommendation

This course covers history in a chronological manner from 1200 C.E. to the present. It centers on the international contact among people of Asia, Europe, Africa and Latin America. The major themes included in this course are:

1. Impact of interaction among societies (trade, systems on international exchange, war and diplomacy)
  2. The relationship between change and continuity across the world history periods covered by this course.
  3. Impact of technology and demography on people and the environment.
  4. Systems of social structure and gender structure.
  5. Cultural and intellectual developments and interaction among and within societies.
  6. Change in functions and structures of states and attitudes toward states and political identities.
- Students will take the AP exam and also the NYS Regents exam in June.

Students will be required to sit for the AP exam in May. The AP exam fee is covered by the district.

### U.S. History & Government

Credit: 1 Unit      Length: 40 Weeks

Prerequisite(s): Global Studies I & II

The course will include a chronological survey of the history of the United States from its constitutional foundations for a democratic republic to the present time. A strong emphasis will be placed on the principles of the U.S. Constitution, Industrialization, and life in America in post-industrial times. Students will explore legal issues surrounding the Constitution, and evaluate the problems of a dynamic industrial society in an increasingly complex and technologically-oriented world. (Regents Exam)

### American History AP

Credit: 1 Unit      Length: 40 Weeks

Prerequisite: Global Studies I & II and teacher recommendation

This course is geared to the needs of the highly motivated students in Social Studies. It will survey, in depth, the outstanding trends of American History in such areas as Reform, Revolution, Foreign Affairs, Economic Growth and Political Development. Upon

completion students will take an Advanced Placement exam which may provide them with college credit in History. Students will also sit for the NYS Regents Exam in June.

Students will be required to sit for the AP exam in May. The AP exam fee is covered by the district.

### Participation in Government\*\*

Credit: 1/2 Unit                      Length: 20 Weeks

A one semester course that will provide students with the opportunity to understand the formulation of public policy through involvement in the democratic process. Students will be given the opportunity to apply and expand the skills, knowledge and attitudes which have been developed throughout the social studies program. Course content will include: the importance of citizen participation in a democratic society, analyzing public policy issues and problems, decision-making; and the implementation of policy. (Local Exam)

### Principles of Economics

Credit: 1/2 Unit                      Length: 20 Weeks

A study of the concepts and theories of economics needed by students planning to enter the business or financial world. General topics to be covered are: Money and Banking; Comparative Economic Systems; Industrial Organization; Monetary-Fiscal Policy; Labor Economics; Business and Government; International Trade. This course will meet the requirements established by the New York State Board of Regents and also expose students to a more advanced, in-depth study of economics. (Local Exam)

\*\*Seniors have the opportunity to earn the Seal of Civic Readiness through projects embedded within their required Social Studies coursework. 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 is noted on a high school transcript and diploma.

### AP US Government & Enr Economics

Credit: 1 Unit                      Length: 40 weeks

Prerequisite: Teacher recommendation and it is also strongly advised that students have a 90 average in prior social studies classes - Global I, II and US History AP U.S. Government and Politics and Enr Economics fulfills the senior year Social Studies requirement. This course is taught on the college level and includes investigations of persuasive governmental and legal issues, as well as public policies that have affected the historical development of the United States. Course Material is delivered through lectures, analytical activities, seminar discussions, and individual reading. Infused into the course is Economics. Economic understandings and economical decision making are emphasized. Basic concepts and understandings are introduced and reinforced so that all students will function effectively and intelligently as citizens and participants in the economy of the United States and the world. An emphasis on improving students' economic literacy is a focus as well. Students will be required to meet the District performance standard for service hours, public meeting attendance and public official letters. a requirement for this course.

Students will be required to sit for the AP exam in May. The AP exam fee is covered by the district. Students may also register for course credit through Hilbert for a fee. This is optional, but would guarantee college credit if a passing grade is earned in the course.

### Advanced Human Behavior (SUPA )

Credit: 1/2 Unit                      Length: 20 Weeks  
Prerequisite: Jrs & Srs only, teacher recommendation.

Syracuse University Project Advance  
Psychology is an introductory course about the basic concepts in the field of psychology. The fundamental topics in psychology such as mental health, personality, human development, learning, memory and much more will be covered. Students will also be guided through a psychology research experience with their teacher and Syracuse University faculty. Students will be equipped with the knowledge to understand the science of psychology and appreciate its wide applicability in life.

This course will fulfill social science credit requirements as students continue onto college. Social Science credits are required at most colleges. The class is also a great prerequisite for various career opportunities in areas such as criminal justice, law, social work and marketing.

There is a fee of \$115/credit hour payable to Syracuse University to register for this course (\$345). Financial Aid is available for those who qualify. Successful completion of this course will result in three transcribed credits from Syracuse University that may be transferred to your college of attendance.

### Advanced Sociology (SUPA )

Credit: 1/2 Unit      Length: 20 Weeks

Prerequisite: Jrs & Srs only, teacher recommendation.

SUPA Sociology is designed as an analytic, skills-based introduction to Sociology. What is Sociology? According to the American Sociological Association, "Sociology is:

- The study of society;
- A social science involving the study of the social lives of people, groups, and societies;
- The study of our behavior as social beings, covering everything from the analysis of short contacts between anonymous individuals on the street, to the study of global social

processes, to the societal impact of race, gender and class roles

- The scientific study of social aggregations, the entities through which humans move throughout their lives;
- An overarching unification of all studies of humankind, including history, psychology, and economics.

This course emphasizes analytic reading and conceptual analysis. It is a reading and writing intensive course. There are no tests.

This course will fulfill social science credit requirements as students continue onto college. Social Science credits are required at most colleges. The class is also a great prerequisite for various career opportunities in areas such as criminal justice, law, social work and marketing.

There is a fee of \$115/credit hour payable to Syracuse University to register for this course (\$345). Financial Aid is available for those who qualify. Successful completion of this course will result in three transcribed credits from Syracuse University that may be transferred to your college of attendance.

**Rho Kappa National Social Studies Honor  
Society**

East Senior/West Senior

Rho Kappa was established to promote scholarship and to recognize excellence among high school students in Social Studies. It also encourages interest in, understanding of, and an appreciation for Social Studies while providing service to others. Students are invited to apply in their junior or senior year after they have completed 2 Social Studies courses. You must have an overall average of 90 or higher, Social Studies average of 90 or higher or an 85 average in AP, and achieve mastery on your Social Studies final exams (85% or higher) . Members of Rho Kappa are expected to complete a service requirement, participate in one fundraiser, maintain the grade requirements in Social Studies, attend meetings and at least one field trip.

# Technology Education

- Academy of Engineering
- Film and Multimedia Concentration (East)

... the bridge between problems and solutions through the application of knowledge

The skills, interests and ability levels of our students are diverse. The avenue that each student will travel to reach their occupational or career goals is also diverse. New York State has mandated 28 Learning Standards that students must meet. Technology Education offers each student the opportunity to enhance their chances to meet these standards.

Educators, parents and students realize that the skills necessary to become a productive member of our information - based society have changed. A student who emerges from our educational system must be flexible enough to keep pace with ever changing technology. Many of the jobs these students may end up in have not even been invented yet. The various course offerings in Technology Education bridge the gap between the needs of students today and the rapidly changing employment demands of tomorrow. All of these courses allow students to develop critical thinking and problem solving skills. We ask our students to write, read, do mathematical functions, use scientific principles and understand social and historical concerns as they relate to cutting edge real life activities. We provide the challenge that encourages students to become lifelong learners.

Each of these offerings allows the student the opportunity to explore occupational choices, and provide the skills, attitudes and knowledge that will allow them to succeed in the workplace.

## COURSE OFFERINGS

<u>Course</u>	<u>Credit</u>	<u>Length</u>	<u>Type of Exam</u>
Design & Drawing for Production	1 unit	40 weeks	Local
Construction Systems	1 unit	40 weeks	Local
Woodworking I	½ unit	20 weeks	Local
Woodworking II	½ unit	20 weeks	Local
Film and Multimedia Prod (East)	1 unit	40 weeks	Local
Computer Aided Design (CAD) (East)	½ unit	20 weeks	Local
Computer Aided Design II (CAD II) (East)	½ unit	20 weeks	Local
Principles of Engineering (East)	1 unit	40 weeks	Local
Television Production (West)	1 unit	40 weeks	Local
Transportation Systems (West)	½ unit	20 Weeks	Local
West Seneca Designs - Manufacturing (West)	1 unit	40 Weeks	Local
Digital Electronics (West)	½ unit	20 Weeks	Local
Media Productions (West)	1 unit	40 weeks	Local

\*Hilbert College: Students who successfully complete TV Productions and Media will earn 6 credit hours if they attend Hilbert College



### Design and Drawing for Production (DDP)

Credit: 1 Unit

Length: 40 Weeks

\*Satisfies the Art / Music requirement

DDP provides you with opportunities to be creative and to apply your decision - making and problem solving skills to design problems. You'll use powerful computer hardware and software to develop 3D models or solid renderings of objects. Using a Computer Aided Design System, you will learn the product design process through creating, analyzing, rendering and producing a model. This course is an introduction to the universal language of technical drawing. Through the mastering of this language, utilizing the computer students will be able to express technical ideas with speed, clarity, and exactness. DDP is a vehicle for world-wide industrial communications and an integral step in the process of designing and producing goods. Students will develop spatial visualization by solving practical design problems. The ideas become working drawings and students are encouraged to make scale models of their solution. Thereby the process of sketching ideas, drawing details of all parts, and the actual production of the product completes the design cycle.

### Construction Systems

Credit: 1 Unit

Length: 40 Weeks

Students will investigate the organization of a construction project. They will review the inputs, processes, and outputs of a construction project either on an individual basis, in a small group setting or as a class. The projects will take the form of bridges, high-rise buildings, geodesic domes, and other school related possibilities. Students will also investigate the materials, procedures, economics, and systems used in the construction of residential dwellings.

Topics will include related careers, finances, supplies, tools, equipment, techniques and safety considerations. Enrichment through visitations to residential projects at various stages will take place. This will be accomplished through a series of laboratory activities, lessons, and discussions. Students will be encouraged to identify and solve problems with a 75% activity and 25% lesson/demonstration format.

### Media Productions [\(West\)](#)

Credit: 1 Unit

Length: 40 Weeks

Students who participate in this course will understand how various video production components such as audio and visual equipment will be used to apply media to a message. They will learn how to produce a message with electronic pre-production, production, and post-production equipment. This course emphasizes hands-on activities as each student learns how to run all the video equipment in our state of the art studio.

Some activities might include: Developing a critical eye to video • Preparing a storyboard and script • Using a video camera to capture images • Editing, and adding the sound and titles to the video • Working in the video studio. Serves as a prerequisite to TV Productions.

### Television Production [\(West\)](#)

Credit: 1 Unit

Length: 40 Weeks

Prerequisite: Media Productions or T.V. Broadcasting  
This course builds on the knowledge gained in the media productions class. A more detailed approach will be given to the methods of television production. Students will direct and produce the daily live school newscast. Internships in local media outlets will be made available to those students who are interested and qualified. They will have

the opportunity to work with people in the school and from the public as clients to produce short segments for public viewing. Students will be encouraged to enter their work for public display and competition. Some activities will require extracurricular time, however it is not mandatory  
Note: Cannot be taken simultaneously with T.V. Broadcasting.

### Principles of Engineering (POE) (East)

Credit: 1 Unit      Length: 40 Weeks

\*Satisfies 3rd credit of Math

Principles of Engineering is a course developed around the State standards for Math, Science, and Technology. Using a hands-on approach, students are posed open-ended engineering problems that cover a wide range of content. Major concepts are introduced at the beginning of the course and reinforced through the design studies. The course is a Math integrative, hands-on laboratory setting that is appropriate for students interested in engineering and/or looking to fulfill their 3rd credit of Math. Design problems include: design of a marble sorter using Fischertechnik, building and testing a ballistic device, and design and construction of a bridge.

### Woodworking I

Credit: 1/2 Unit      Length: 20 Weeks

Woodworking I introduces students to the various kinds of woods used in industry and offers experience in using selected woodworking tools such as scroll saw, band saw, power sander and the drill press. Students learn to design and construct projects which start at a beginner level and become more challenging as students advance. Correct and safe use of tools and equipment is emphasized. Students will build projects that they are able to take

home. This course is appropriate for 10th, 11th and 12th grade students.

### Woodworking II

Credit: 1/2 Unit Length: 20 Weeks

Prerequisite: Woodworking I

This hands-on intermediate woodworking course is a continuation of Woodworking I with a strong emphasis on safety, accuracy, craftsmanship in the finished product. In addition to the machines learned in Woodworking I, students will learn to safely use the table saw, surface planer, joiner and router. Students will learn the mass-production process and how to prepare a bill of materials. As students advance, they focus on learning the terminology necessary to use power tools successfully, developing skills to safely use these tools in the workshop and becoming familiar with various kinds of wood-finishing. Students will produce projects that they can take home.

### Transportation Systems (West)

Credit: ½ Unit Length: 20 Weeks

The development of transportation systems throughout the world has a tremendous impact on the intellectual and economic growth of societies. Transportation systems allow people to move not only themselves, but also durable and nondurable goods in increasingly fast and efficient ways. This curriculum explores transportation systems for three perspectives: Land transportation, marine transportation, and aerospace transportation.

### Computer Aided Design (CAD) (East)

Credit: 1/2 Unit      Length: 20 Weeks

Prerequisite: Design Draw Production (DDP)

This course builds on the knowledge gained in DDP class. This hands-on intermediate computer design course is a continuation of

DDP with a strong emphasis on computer modeling, joinery, assembly, tolerances, parametric constraints, and prototyping using 3D printer and CNC technologies. Students will further develop their skills by developing advanced design models and fabricating complex projects. This course is appropriate for 10th, 11th, and 12th grade students.

### Computer Aided Design II (CAD II) (East)

Credit: 1/2 Unit Length: 20 Weeks

Prerequisite: CAD

This course builds on the knowledge gained in both DDP and CAD courses. CAD II has a strong emphasis on advanced computer modeling which utilizes inventor software. Topics include sheet metal design, i-parts parametric constraints, material testing and prototyping. Students will design advanced products and organize all of the production needs from materials needed to processing tools and machines. Students will use a variety of fabricating processes to prototype their projects including CNC and 3D printing technologies.

### Digital Electronics (West)

Credit: ½ Unit Length: 20 Weeks

Digital Electronics is a course in applied logistics. You will be introduced to the digital circuits found in video games, watches, calculators, digital cameras, and thousands of other devices. You will study the application of digital logic and how digital devices are used to control automated equipment. Students will learn about electronic components and circuits through the use of breadboards and soldering printed circuit boards. The concepts of conductors, insulating materials, resistance, voltage, current, Ohm's Law, energy, work and power, measuring instruments and techniques.

### Film and Multimedia Production (East)

Credit: 1 Unit Length: 40 Weeks

Prerequisite: Seniors Only

Students will be introduced to the technological aspects of film and multimedia production. Emphasis will be on the software, equipment and techniques that would be found in a small production company. They will learn introductory and intermediate editing techniques using Adobe Premiere Pro. Students will use a variety of digital video recording equipment and lighting equipment. Students will be required to incorporate thoughtful use of titling and text, transitions, effects, narration and musical accompaniment. Emphasis will be placed on using technology as an effective storytelling tool. This course is required as part of the Film and Multimedia Concentration and will culminate in a film festival highlighting the students' work.

### West Seneca Designs - Manufacturing (West)

Credit: 1 Unit Length: 40 Weeks

Prerequisite: Woodworking I or West Seneca Designs - Business and must be in Grade 11 or 12

This hands-on intermediate woodworking course is a continuation of Woodworking I. The students in this course will work in conjunction with the students in the West Seneca Designs Business class to build and create projects for the school community. Students will learn the mass-production business process, how to prepare a bill of materials, the process of quality control and how to effectively market products. This course is designed for students who have a self-starter attitude, intrinsically motivated, eager to create and innovate and the ability to work collaboratively with others.

# Academy of Engineering

Students have an opportunity to join this “school within a school” program beginning in their sophomore year. Students enrolled in the Academy will receive a Regents diploma or Regents Diploma with an advanced designation along with an expanded certificate in the Academy of Engineering.

Students will achieve universal engineering skills and knowledge with a focus on the production or civil engineering field. Students will participate in a vast array of industry-sponsored activities including field trips, shadow days, classroom speakers, the pre-engineering fair, and internships.

## Academy Course Sequence

• Four Year Program •

<u>Grade Level</u>	<u>Course</u>	<u>Credit</u>
Ninth Grade - Recruitment, application, and selection of students	Design Drawing for Production	1 unit
Tenth Grade	Materials I and II	1 unit
Eleventh Grade	Engineering and Robotics	1 unit
	Civil Engineering and Architecture	1 unit
Twelfth Grade	Engineering Development and Design	1 unit

Graduation - Certificate of Studies in Engineering in addition to Regents Diploma or Regents Diploma with an Advanced Designation

### Design and Drawing for Production (DDP)

Credit: 1 Unit      Length: 40 Weeks

\*Satisfies the Art / Music requirement

DDP provides you with opportunities to be creative and to apply your decision - making and problem solving skills to design problems. You'll use powerful computer hardware and software to develop 3D models or solid renderings of objects. Using a Computer Aided Design System, you will learn the product design process through creating, analyzing, rendering and producing a model. This course is an introduction to the universal language of technical drawing. Through the mastering of this language, utilizing the computer students will be able to express technical ideas with speed, clarity, and exactness. DDP is a vehicle for world-wide industrial communications and an integral step in the

process of designing and producing goods. Students will develop spatial visualization by solving practical design problems. The ideas become working drawings and students are encouraged to make scale models of their solution. Thereby the process of sketching ideas, drawing details of all parts, and the actual production of the product completes the design cycle.

### Materials Processing I

Credit: 1/2 Unit

Length: 20 Weeks

Through hands-on activities, demonstrations and assessments, the students will gain knowledge, skills and abilities that will enable them to construct small projects. Students build projects that they are able to bring home. Students will be given instruction in the safe operation of

woodworking machine tools, such as the table saw, surface planer, joiner, scroll saw, band saw, power sander, lathe and drill press. Students will also learn machine set-up with an emphasis on safety. This course is appropriate for 10th, 11th and 12th grade students.

### Materials Processing II

Credit: 1/2 Unit Length: 20 Weeks

Prerequisite: Materials Processing I

This hands-on intermediate woodworking course is a continuation of Material Processing I with a strong emphasis on safety, accuracy, craftsmanship in the finished product. Students will build upon the knowledge previously acquired to develop processes for design and fabrication of more complex projects. This class emphasizes teamwork, creativity and craftsmanship. Students may have to provide their own materials for their final project.

### Civil Engineering & Architecture

Credit: 1 Unit

Length: 40 Weeks

This course provides an overview of the fields of Civil Engineering & Architecture, while emphasizing the interrelationship and dependence of both fields on each other. Students use state of the art software to solve real world problems and communicate solutions to hands-on projects and activities. This course covers roles of civil engineers and architects, project planning, site planning, building design and project documentation and presentation.

### Engineering and Robotics

Credit: 1 Unit

Length: 40 Week

Engineering and Robotics is a high school-level survey course of engineering. The course exposes students to some of the major concepts that they will encounter in a

postsecondary engineering course of study. Students have an opportunity to investigate engineering and high tech careers. Engineering and Robotics gives students the opportunity to develop skills and understanding of course concepts through activity, project, and problem-based (APPB) learning. Used in combination with a teaming approach, APPB learning challenges students to continually hone their interpersonal skills, creative abilities, and problem solving skills based upon engineering concepts. It also allows students to develop strategies to enable and direct their own learning, which is the ultimate goal of education. To be successful in Engineering and Robotics, students should be concurrently enrolled in college preparatory mathematics and science. Students will employ engineering and scientific concepts in the solution of engineering design problems. Students will develop problem-solving skills and apply their knowledge of research and design to create solutions to various challenges.

### Engineering Design and Development (EDD)

Credit: 1 Unit

Length: 40 Week

In this course you will work as part of a team to design a solution to an engineering problem. The problems will involve a wide range of engineering applications (e.g., school robot-mascot, automated solar water heater, remote control hovercraft, to name a few ideas. You will apply the principles you developed in the previous courses. Each team will be responsible for delivering progress reports and making final presentations to an outside review panel. The completed portfolio will be invaluable when you begin applying to colleges.

# Film and Multimedia Concentration (East)

The Film and Multimedia Concentration is a senior level set of courses which will prepare students to enter college programs and career fields that require a broad range of experiences in the areas of film and multimedia production including experience with public speaking, communications, journalism and video production. The program emphasizes a multidisciplinary, team approach to creative endeavors and reproduces the environment of a small production company.

The concentration consists of two courses: Film and Multimedia Production (technology), and Creating Narrative Cinema (English - Counts as Senior year of English). The program will culminate in a student produced film-fest at the end of the year. Hosted in the Auditorium by students, the East Senior Film Fest will be open to parents, relatives and students.

## Concentration Courses

• Senior Year Program •

<u>Course</u>	<u>Department</u>	<u>Credit</u>
Film and Multimedia Production	Technology	1 unit
Creating Narrative Cinema	English	1 unit

\*Must take both courses

### Film and Multimedia Production

Credit: 1 Unit Length: 40 Weeks

Prerequisite: Seniors Only and required for concentration

Students will be introduced to the technological aspects of film and multimedia production. Emphasis will be on the software, equipment and techniques that would be found in a small production company. They will learn introductory and intermediate editing techniques using Adobe Premier Pro. Students will use a variety of digital video recording equipment and lighting equipment. Students will be required to incorporate thoughtful use of titling and text, transitions, effects, narration and musical accompaniment. Emphasis will be placed on using technology as an effective storytelling tool. This course is required as

part of the Film and Multimedia Concentration and will culminate in a film festival highlighting the students' work.

### Creating Narrative Cinema

Credit: 1 Unit Length: 40 weeks

Prerequisite: Grade 12 and enrolled in Film and Multimedia Production, satisfies 4th unit of English

This course will focus on the creation of narrative cinema using basic narrative principles of English Language Arts (character, conflict, dialogue, point of view, and plot but with a screenwriting focus) in addition to incorporating film analysis to gain further insight into the visual, literary, aural, and performance aesthetics that comprise a work of cinema. By the end of the course, students will have acquired the knowledge and skills of reading film,

developing personal meanings and interpretations of film, and written/visual cinematic composition as it pertains to film production (creative writing, script writing, storyboarding, brainstorming, literary adaptation, etc.). Students will produce various scripts tackling a wide range of formats: public service announcements (PSAs), commercials, comic and dramatic sketches and skits, a short documentary film and a short narrative film. This course is offered as part of the Film and Multimedia Senior Concentration and will culminate in a film festival highlighting student work. This course will satisfy the 4th unit of English.

# World Languages

Language is our single most important connection to our community and to the world. Through language we identify the world around us, express our concerns, our dreams, and it allows us to share our experiences and ideas.

The ability to communicate in a language other than English provides a unique opportunity to gain access to other people and their cultures. It is through language that each culture leaves an indelible mark on society as a whole. Recent world events bear witness to the importance of communicating in another language and understanding cultures other than our own. Change is accelerating at a pace that far exceeds our own conceptions. Our interdependence with other cultures makes it even more crucial for us to acquire skills for communication and cross-cultural understanding.

The concept of a global community is no longer abstract but rather quite concrete. Our membership and involvement in this arena necessitates strong communication and cultural skills. Buffalo and Western New York are in a strategic position to act as major players in this new world setting. These worldwide connections are no longer sporadic, but rather an integral part of doing business on a daily basis. The recognition of being proficient in a language other than English is a definite necessity!

## COURSE OFFERINGS

<u>Course</u>	<u>Credit</u>	<u>Length</u>	<u>Type of Exam</u>
French I (East)	1 unit	40 weeks	Local Proficiency Exam
French II	1 unit	40 weeks	Local
French III	1 unit	40 weeks	Regents Equivalent
French IV	1 unit	40 weeks	Local
French V/Hilbert	1 unit	40 weeks	Hilbert
Spanish I	1 unit	40 weeks	Local Proficiency Exam
Spanish II	1 unit	40 weeks	Local
Spanish III	1 unit	40 weeks	Regents Equivalent
Spanish IV	1 unit	40 weeks	Local
Spanish V/Hilbert	1 unit	40 weeks	Hilbert

### French I/Spanish I

Credit: 1 Unit      Length: 40 Weeks

This course is a beginning and foundational course that stresses the four language skills: Listening, speaking, reading and writing - with primary vocabulary and structure dealing with the student, his/her school, activities, family, etc. These topics are integrated into a course by using them in

conversation, as well as written structure. Videos, podcasts, movies, and various other aids are used to help the student experience Spanish/French-speaking cultures. Teacher and student target language use will increase throughout the year.



## French II/Spanish II

Credit: 1 Unit      Length: 40 Weeks

Prerequisite: Level I

This course is a continuation of the first year course which builds on previously learned material. However, the degree of difficulty of grammatical concepts increases. Training in the four skills of listening, speaking, reading and writing is continued. Students are asked to master new grammatical structures and topics as well as new vocabulary. They are also asked to apply the newly acquired topics in conversations about practical topics and in their writing.

Their acquisition of new concepts and vocabulary, both active and passive, is strengthened. As much as possible of the class will be conducted in the target language on behalf of the teacher as well as the students. Student target language use will continue to be strengthened and assessed through conversations with a classmate, small groups, and/or the teacher. Students continue to be exposed to cultural elements. These may be introduced in discussions as well as in cultural readings, movies, videos, etc. These items will offer students greater insight into the culture of the countries where the language they are studying is spoken.

## French III/Spanish III

Credit: 1 Unit      Length: 40 Weeks

Prerequisite: Level II

Training in the four skills of listening, speaking, reading and writing is continued in the level 3 course. Students are asked to master new grammatical structures and topics as well as new vocabulary which continue to build upon previously learned material.

They are also asked to apply the newly acquired vocabulary and grammar in authentic conversations about practical

topics and in their writing. Their acquisition of new concepts and vocabulary, both active and passive, is strengthened. Reading comprehension as well as writing proficiency and speaking proficiency will be emphasized. The class will be conducted in the target language as much as possible. Student target language use will continue to be strengthened and assessed through conversations with a classmate, small groups, and/or the teacher. Students continue to be exposed to cultural elements. These may be introduced in discussions as well as in cultural readings, movies, videos, etc. These items will offer students greater insight into the life and people of the countries where the language they are studying is spoken. In addition, this course has a Regents equivalent as a final evaluation. Because of this, time will be devoted throughout the year to review and prepare students for this examination, which emphasizes reading, writing, listening and speaking.

## French IV

Credit: 1 Unit      Length: 40 Weeks

Prerequisite: French III

Training and application in the four skills of listening, speaking, reading and writing continues at this level. Students are asked to review and apply grammatical structures and topics they have learned in the past. Some specific details are added to that prior knowledge. Students greatly expand their knowledge of vocabulary. In Level IV, French is used extensively in the class. Much of the year is focused on helping students to further develop their ability to speak in French and comprehend both the teacher and their classmates during discussions. They are asked to apply acquired vocabulary in conversations about practical topics and in their writing. Their prior knowledge of

concepts and vocabulary, both active and passive, is strengthened. They may be asked to write short essays, stories, skits, commercials, etc. in order to apply their knowledge and be creative with it. Reading comprehension will be emphasized through the use of authentic materials. Newspaper and magazine articles will expose students to vocabulary in their interest areas. They will also gain a wealth of knowledge about the cultures of French-speaking countries from readings, class discussions, viewing films, and listening to French music.

### Spanish IV

Credit: 1 Unit                      Length: 40 Weeks

Prerequisite: Spanish III

Training and application of the four skills of listening, speaking, reading and writing continue at this level. Students are asked to review and apply grammatical structures and topics they have learned in the past. Some specific details are added to that prior knowledge. Students do expand their knowledge of vocabulary through readings, discussions and projects. In Level IV, Spanish is used extensively in the class. Much of the year is focused on helping students to further develop their ability to speak in Spanish and comprehend both the teacher and their classmates during extended discussions. They are asked to apply acquired vocabulary in conversations about practical topics, topics of interest, and in their writing. Their prior knowledge of concepts and vocabulary, both active and passive, is strengthened. They may be asked to write and present short essays, short stories, skits, commercials, political slogans, research projects, etc. in small and large groups in order to apply their knowledge and be creative with it. Listening comprehension will be emphasized through the use of podcasts of native speakers. They

will also gain a wealth of knowledge about the cultures of Spanish-speaking countries from readings, class discussions, viewing films, and listening to Spanish music.

### French V

Credit: 1 Unit                      Length: 40 Weeks

Prerequisite: French IV or teacher recommendation

Level 5 French is an advanced French course for high school students who have completed 4 high school units of study. As such, the course will emphasize advanced oral communication and listening skills. Students will add to their already extensive vocabulary bank with concentration on those words necessary to enhance the students' communicative abilities. This new vocabulary will enhance the everyday skills necessary for effective communication.

Reading at an advanced level will introduce some literature and stress comprehension. Writing skills will be enhanced to include personal narrative through journals, persuasive and expository style. Grammar will be an integral part of the course. Previously learned structures will be reviewed and reinforced, while advanced grammatical structures will be introduced for mastery. With today's emphasis on global interdependence, cultural awareness will be explored through the use of visual media, research projects and presentations and other means that will further the students' knowledge of the French speaking countries and their people. Students are also able to earn Hilbert College credit through this course and taking the final exam. More information regarding the  
Final Exam: Teacher-created Hilbert Exam (All students take the exam regardless of whether or not they pay for the credits.)

Students may also register for course credit through Hilbert for a fee. This is optional, but would guarantee

college credit if a passing grade is earned in the course.



### Spanish V

Credit: 1 Unit

Length: 40 Weeks

Prerequisite: Spanish IV or teacher recommendation

Level 5 Spanish is an advanced Spanish course for high school students who have completed 4 high school units of study. As such, the course will emphasize advanced oral communication and listening skills. Students will add to their already extensive vocabulary bank with concentration on those words necessary to enhance the students' communicative abilities. This new vocabulary will improve the everyday skills necessary for effective communication.

Reading at an advanced level will introduce some literature and stress comprehension. Writing skills will be practiced and will include personal narrative through journals, persuasive and expository style. Grammar will be an integral part of the course. Previously learned structures will be reviewed and reinforced, while advanced grammatical structures will be introduced for mastery. With today's emphasis on global interdependence, cultural awareness will be explored through the use of visual media, research projects and presentations and other means that will further the students' knowledge of the Spanish speaking countries

and their people. Students are also able to earn Hilbert College credit through this course and taking the final exam. Final Exam: Teacher-created Hilbert Exam (All students take the exam regardless of whether or not they pay for the credits.)

Students may also register for course credit through Hilbert for a fee. This is optional, but would guarantee college credit if a passing grade is earned in the course.

### **French and Spanish Honor Society**

French & Spanish Honor Society is made up of honor students who maintain a French or Spanish average above 90.

Students participate in special events such as trips, cultural activities, and dinner at ethnic restaurants. The students serve the school by helping language teachers and tutoring peers. Fundraising is done to support activities and to create funds for annual scholarships.

#### **French Honor Society** [West Senior](#)

Students are invited to apply during their sophomore year while in French 3. Students eligible for membership must have completed two years of high school French and must maintain a 90% average in French and an 80% overall in other subjects. To maintain membership students must be enrolled in French 4 and 5 and serve as either a peer tutor, teacher aide, or an officer to the organization.

#### **French Honor Society** [East Senior](#)

Students are invited to apply after their third year of study in the fall of their junior year. For induction students must have a 90 average or higher in French and an 85 average in the rest of their studies. To maintain membership students must continue to have a 90 average in French taken each year and complete a total of 8 hours of service and attend 2 cultural events before May of their senior year.

#### **Spanish Honor Society** [West Senior](#)

Students are eligible to apply in their sophomore year when enrolled in Spanish 3 and have maintained a 90 average or higher in Spanish and an 80 average or higher in all other subjects. To maintain their membership students must be enrolled in Spanish 4 and 5 and serve as a peer tutor, teacher aide, or an officer.

#### **Spanish Honor Society** [East Senior](#)

Students are invited to apply after their third year of study in the fall of their junior year. For induction students must have a 90 average or higher in Spanish and an 80 average in the rest of their studies. To maintain membership students must continue to have a 90 average in Spanish taken each year until graduation and participate in service activities. Students are asked to assist with the induction ceremony and annual language event, and attend at least one Spanish Club event.

## **NYS Seal of Biliteracy**

Some language students may be recommended by their teachers to pursue the NYS Seal of Biliteracy. This is an award given by a school, school district or county office of education that formally recognizes students who have attained a high level of proficiency in two or more world languages (one of which must be English) by high school graduation. This includes students whose first language is not English and may be part of the district ENL program.

The Seal of Biliteracy is affixed to the students diploma and is noted on the students official high school transcript and graduation program.

This program serves to:

- recognize the value of language diversity
- provide universities with a method to recognize and give credit to applicants for attainment of high level skills in multiple languages
- provide employers with a method of identifying people with language skills
- prepare students with 21st century skills



# College Credit/Articulation Agreements

Department	High School Course	High School Credit	College	College Course	College Credit
Art	AP Studio Design	1.0	SUNY Erie CC or CollegeBoard	AT 230 Design 1	3
Art	AP Studio Drawing	1.0	SUNY Erie CC or CollegeBoard	AT 200 Drawing 1	3
Art	Art Portfolio Dev	1.0	SUNY Erie CC	AT 210 Painting 1	3
Art	Comp Graphics	.5	SUNY Erie CC	AT 260 Computer Art and Design	3
Business	Accounting	1.0	SUNY Erie CC	BU 120 Introduction to Accounting	3
Business	Business & Criminal Law	1.0	SUNY Erie CC	PA 205 Introduction to Law	3
Business	College & Career Portfolio	.5	SUNY Erie CC	GS 111 College Success Skills	3
Business	Personal Finance	1.0	SUNY Erie CC	BU 233 Consumer Finance	3
Business	Programming	.5	SUNY Erie CC	DA 105 Intro to Structured Programming	3
English	English 11 Honors/Enr Eng IV	1.0	Hilbert College	EN 101 College Writing	3
English	English 12 Honors	1.0	Hilbert College	EN 102 Writing Across the Humanities	3
Math	NU Statistics	1.0	Niagara University	MAT 102 Statistics	3
Math	Precalculus	1.0	SUNY Erie CC	MT 180 Precalculus Mathematics	4
Science	HC Forensics	1.0	Hilbert College	FS 101 Forensic Science	3
Science	Adv Forensics	1.0	Syracuse University	CHE 113 Forensic Science	4
Social Studies	AP US Govt & Politics	.5	APCollegeBoard & Hilbert College	PS 102 American Government	3
Social Studies	AP World History	1.0	APCollegeBoard & Hilbert College	HI 289 World History & Geography II	3
Social Studies	SUPA Human Behavior	.5	Syracuse University	PSY 205 Foundations of Human Behavior	3
Social Studies	SUPA Sociology	.5	Syracuse University	SOC 101 Introduction to Sociology	3
Technology	Engineering Design and Development	1	SUNY Erie CC	ME106 Technical Drawing & AutoCAD	3
World Language	French 5	1.0	Hilbert College	FR 103 Intermediate French	3
World Language	Spanish 5	1.0	Hilbert College	SP 103 Intermediate Spanish	3

# NCAA Eligibility

## **IMPORTANT INFORMATION FOR STUDENT ATHLETES (NCAA FRESHMEN ELIGIBILITY):**

Many colleges athletic programs are regulated by the National Collegiate Athletic Association (NCAA), an organization founded in 1906 that has established rules on eligibility, recruiting and financial aid. The NCAA has three membership divisions -- Division I, Division II and Division III. Institutions are members of one or another division according to the size and scope of their athletic programs and whether they provide athletic scholarships.

If you are planning to enroll in college as a freshman and you wish to participate in Division I or Division II athletics, you must be certified by the NCAA Initial-Eligibility Center. The Center was established by the NCAA member institutions in January 1993. The Center ensures consistent application of NCAA initial- eligibility requirements for all prospective student athletes at all member institutions.

NYS Regents diploma requirements do not necessarily make a student eligible for participation in college level athletics. Eligibility requirements are clearly defined at <https://web3.ncaa.org/ecwr3/>. This can be a very complicated area and it is suggested that athletes and their parents refer to the website to have an understanding of the requirements. Prospective college athletes should register with the center at the beginning of their sophomore year and request that a transcript be sent from the Student Service Center to the NCAA. Early on in their high school education (prior to sophomore year), students should be notifying their counselor that they are interested in playing a sport at a division I or II level so that appropriate course planning can be made in order to ensure the student will be academically eligible.

College-bound student- athletes will need to meet certain academic requirements to practice, receive athletics scholarships, and/or compete during their first year. Please visit [www.ncaa.org/student-athletes](http://www.ncaa.org/student-athletes) for additional information. It is important that students speak with their counselor about their intent to play a Division I or II sport so that they can ensure students are in NCAA approved courses to meet eligibility requirements.

## **Division I Academic Requirements**

Core Course Requirement - 16 (Must be NCAA Approved Courses)

- 4 years of English
- 3 years of Math
- 2 years of Natural/Physical Science (1 year of lab)
- 1 year of additional Math, English or Natural/Physical Science
- 2 years of Social Science
- 4 years of additional courses (any above area, Foreign Language or comparative religion/Philosophy)

For Division I, 10 of your 16 NCAA approved core course credits must be completed before the start of your seventh semester, including seven in English, math or science.

### **Grade Point Average**

The eligibility center calculates your core-course GPA based on the grades you earn in NCAA-approved core courses.

- Division I require a minimum 2.3 core-course GPA

## **Division II Academic Requirements**

Core Course Requirement - 16 (Must be NCAA Approved Courses)

- 3 years of English
- 2 years of Math
- 2 years of Natural/Physical Science (1 year of lab)
- 3 years of additional Math, English or Natural/Physical Science
- 2 years of Social Science
- 4 years of additional courses (any above area, Foreign Language or comparative religion/Philosophy)

### **Grade Point Average**

The eligibility center calculates your core-course GPA based on the grades you earn in NCAA-approved core courses.

- Division II requires a minimum 2.2 core-course GPA

### **Test Scores**

In January 2023, NCAA Divisions I and II adopted legislation to remove standardized test scores from initial-eligibility requirements. Students should check with the NCAA school they plan to attend regarding whether standardized test scores are necessary for admission or scholarship requirements.

## **Numeric Grade Conversion**

- A = 91 -100 (4.0)
- B = 82 - 90 (3.0)
- C = 73 - 81 (2.0)
- D = 65 - 72 (1.0)
- F = 0 – 64 (0.0)

# NCAA Approved Core Courses

East Approved Courses (Subject to change)

<u>English</u>	<u>Social Science</u>	<u>Math</u>	<u>Natural/Physical Science</u>	<u>Additional Core Courses</u>
English 9	Global History I	Algebra 1A (.5)	Adv Forensics (No Lab)	French I
English 10	Global History 1 Honors	Algebra 1B (.5)	AP Biology	French II
English 11	Global History 2	Enr Algebra 1 CC	AP Environmental Sci	French III
English 3 CC	US History	Algebra 1	Chemistry w/ lab	French IV
English 4	Part in Govt	Algebra 2 CC	AP Chemistry	French V
Creative Writing	Economics	Algebra 2A (.5 credit max)	Earth Sci Enr	Spanish I
English 9 Honors	AP World History	Algebra 2B (.5 credit max)	Earth Science w/ lab	Spanish II
English 10 Honors	AP US History	Geometry	Enriched Living Env	Spanish III
English 11 Honors	AP US Gov & Pol	Geometry CC	Forensics (No Lab)	Spanish IV
English 12 Honors	Enr Economics	Intro to Stats (.5)	Living Env/ Lab	Spanish V
Enr English 3 CC	Psychology	AP Statistics	Physics w/ Lab	
Enr English 4	Sociology	AP Calculus	Physics AP	
AP Eng Lit & Comp	Adv Sociology	Precalculus	Science 21 <sup>st</sup> Century (No Lab)	
Hero Legend Lore	Adv Human Behavior	NU Statistics	HC Forensics	
Sports Adv Lit Writing	AP Gov & Enr Econ	Math Applications	Liv Env Honors	
Wicked Fiction		Honors Geometry		



West Approved Courses (Subject to change)

<u>English</u>	<u>Social Science</u>	<u>Math</u>	<u>Natural/Physical Science</u>	<u>Additional Core Courses</u>
AP English Lit & Comp	Adv Human Behavior	Algebra 1	Adv Forensics	French I
Comm Skills 21st Century	Adv Sociology	Algebra 1A (.5)	AP Biology	French II
English 1 CC	AP Gov & Politics	Algebra 1B CC (.5)	AP Chemistry	French III
English 2 CC	AP US History	Algebra 2 CC	Chemistry w/Lab	French IV
English 3 CC	Business & Criminal Law	Algebra 2A CC (.5)	Gen Chemistry	French V
English 4	Economics	Algebra 2B CC (.5)	Earth Science w/Lab	Spanish I
Enr English 1 CC	Global History 1	AP Calculus	Enriched Living Env	Spanish II
Enr English 2 CC	Global History 1 Honors	NU Statistics	Forensics	Spanish III
Enr English 3CC	Global History 2	Pre-Calculus	Living Env/Lab	Spanish IV
Enr English 4	Participation in Govt	Geometry	Physics w/Lab	Spanish V
Enr English 4 CC	AP World History	Geometry CC	Physics AP	
English 9	US History	Intro to Statistics (.5)	Science 21st Century	
English 9 Honors	AP Economics	Geometry Honors	LSA Anatomy & Physiology	
English 10		Enr Geometry CC	LSA Biotech Eng.	
English 10 Honors		Algebra 1 CC		
Wicked Fiction				
Heroes Legend & Lore				
Sports Adv. Writing				