
**East Meadow School District
2012-2013 Course Guide**

School District **EAST MEADOW**

2012-2013 Course Guide



www.eastmeadow.k12.ny.us

Curriculum and Course Offerings for

SECONDARY SCHOOLS

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PUBLIC NOTIFICATION

The East Meadow School District hereby advises students, parents, employees and the general public that it offers employment and educational opportunities, including vocational education opportunities, without regard to sex, race, color, national origin, or disability.

Inquiries regarding this nondiscrimination policy may be directed to:

Anthony Russo
Assistant Superintendent for Personnel and Administration
Leon J. Campo Salisbury Center
(516) 478-5552

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Director of Special Education and Pupil Personnel Services
Leon J. Campo Salisbury Center
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East Meadow School District

Established in 1814

OFFICE OF THE SUPERINTENDENT OF SCHOOLS

LOUIS R. DEANGELO
Superintendent of Schools

January 2012

Dear Students and Parents:

This course offerings guide has been designed to provide our students and families with the necessary information to make informed choices on courses for the 2012-2013 school year. As you proceed, please be mindful of the graduation requirements for your year of anticipated graduation.

Students' guidance counselors and teachers are available to assist with the understanding of course offerings and requirements. Please contact your guidance counselor for any assistance which might be needed during the process.

Choose wisely for a successful 2012-2013 school year!

Sincerely,

Louis R. DeAngelo
Superintendent of Schools

REQUIREMENTS FOR DIPLOMA ENDORSEMENTS

Four types of diplomas may be earned by graduating students:

1. East Meadow Scholars Diploma
2. Regents Diploma with Advanced Designation
3. Regents Diploma
4. East Meadow Diploma (Local Diploma)

Requirements:

Course and sequence requirements for graduating classes are described on the subsequent pages. Since State Education Department and East Meadow Board of Education mandates may change, students are expected to consult with their guidance counselor periodically. The requirements for a high school diploma are determined by the date the student entered the ninth grade.

Students will be expected to enroll in a minimum of 7 academic periods each semester for grades 11 and 12, and 8 academic periods for grades 9 and 10.

Academic Intervention Services:

Academic Intervention Services will be mandated for students who are not successful in passing the State Regents Assessments.

Please note that students must pass the following Regents Examinations:

Comprehensive Regents Examination in English

Regents Examination in Mathematics

1 Science Regents Exam (Living Environment, Earth Science, Chemistry, or Physics)

Regents Examination in Global History and Geography

Regents Examination in U.S. History and Government

EAST MEADOW SCHOLARS DIPLOMA *(See page iv)*

Students who successfully complete additional prescribed courses and course sequences, maintain an overall unweighted grade point average of 85% or better, and maintain a combined average of 85% or better for all Regents examinations, will be eligible for an East Meadow Scholars Diploma.

REGENTS DIPLOMA WITH ADVANCED DESIGNATION

Students entering grade 9 in 2008, and thereafter who meet the Regents Diploma requirements and successfully complete an additional Regents in Science, 3 Regents in Mathematics and the locally developed Checkpoint B examination for Languages Other Than English (LOTE) will receive a Regents Diploma with Advanced Designation. Students taking a sequence of not less than 5 units of credit in Career and Technical Education or Art/Music may substitute a 5-unit sequence in place of the units of LOTE.

REGENTS DIPLOMA

Students must successfully complete a minimum of 22 credits and the designated Regents exams, with scores of 65 or better on each exam, to be eligible for a Regents Diploma.

EAST MEADOW DIPLOMA

Students entering grade 9 in 2008, and thereafter must have a score of 65 or above on **all** five required Regents exams. Some special education students who entered grade 9 prior to 2011 may qualify for this diploma. Please see your counselor. This is not available to general education students as per the New York State Department of Education.

For students who achieve a minimum of a 90% average for all required Regents Examinations, their diplomas will be designated “WITH HONORS.”

EAST MEADOW SCHOLARS DIPLOMA

In order to meet the requirements for this diploma, students must complete a minimum of 26 units of credit, have an overall unweighted grade point average of 85% or better and have a combined average of 85% or better for all Regents exams taken. Course requirements will include the following:

- 4 Units of English
- 4 Units of Mathematics (must include Integrated Algebra, Geometry, and Algebra 2/Trigonometry)
- 4 Units of Science*
- 4 Units of Social Studies
- 3 Units of the same Language Other Than English (LOTE)
- 2 Units of Art and/or Music
- 1/2 Unit of Health
- 2 Units of Physical Education

*Note – This Diploma requires that students take an additional unit of science beyond the requirements for a Regents Diploma. A student may substitute 5 units in a single subject area in place of a fourth unit in science.

Students must also complete one additional requirement from the following options (units earned above may be counted towards the options shown below):

- A) 5 Units of Art, including Studio in Art 1
- B) 5 Units of Music, including at least three years of Performance Music, Music Theory 1, and Music Theory 2 or two years of Performance Music and Music Theory 1, 2, and 3
- C) 4 Units of the same Language Other Than English, including the appropriate LOTE Checkpoint B Examination
- D) 5 Units of Career Education (includes Business, Occupational, and Technology Education)
- E) 5 Units of Pre-Engineering

STATE/LOCAL GRADUATION REQUIREMENTS

Total Units of Credit

All students will acquire a minimum of 22 units of credit.

<i>Core Credit Requirements</i>		
<u>Regents Diploma</u>	<u>Subject Areas</u>	<u>Regents Diploma with Advanced Designation</u>
4	English	4
4	Social Studies	4
3	Mathematics	3
3	Science	3
1 (or 2*)	Arts	1 (or 2*)
.5	Health	.5
2	Physical Education	2
1	Languages Other Than English (LOTE)	3
3.5	Electives	1.5
22	TOTAL CREDITS	22

* A student may satisfy the Arts requirement by completing 2 units in Art or Music or 1 unit of Creative Experience

Students seeking a Regents Diploma with Advanced Designation must meet Regents Diploma Requirements along with an additional Regents in Science, 3 Regents in Mathematics, and the locally developed Checkpoint B examination for Languages Other Than English (LOTE). All students must have 1 unit in a LOTE, which can be earned by passing the locally developed Checkpoint A examination in grade 8 or by passing a high school course. Students acquiring 5 units in Career and Technical Education or Art/Music may be exempt from the 3-unit requirement in a LOTE for the Regents Diploma with Advanced Designation.

Individual Education Program (IEP) diplomas continue for students with severe disabilities. IEP diplomas require satisfactory completion of the learning program outlined in the Individual Educational Program. All IEPs will be based on attainment of State Learning Standards appropriate to the individual student's disability.

COLLEGE TESTING INFORMATION

Each student must make course selections that will satisfy individual diploma requirements. In addition, students should be familiar with any requirements that relate to post-secondary goals. Since most students will seek college admission, it is important for all students to be familiar with admission requirements. Most colleges use standardized tests as part of the admissions process. Exams such as SAT I/II and ACT help colleges in selecting potential enrollees, can help determine a student's placement level upon admission, and may be used by the college in awarding scholarships. Please review the following:

College Board Exams:

SAT I - The Scholastic Aptitude Test (SAT I) measures writing, mathematics, and critical reasoning. It is taken by most students in May of their junior year, though some students elect to take it earlier. Students looking to improve their scores may take the SAT I again during the Fall of their senior year. SAT I materials are available at each high school guidance office. Students must register directly with the College Board and may use the registration booklets found in the guidance office, or they may register by telephone or by using the Internet.

PSAT - The Preliminary Scholastic Aptitude Exam (PSAT) is offered only once a year in mid-October. While the PSAT is considered "practice" for the SAT I, juniors who achieve the highest scores may be considered for the National Merit Scholarship competition. Sophomores taking accelerated math and who have very strong verbal skills, are encouraged to take this exam as a practice for the following year, when their scores might qualify them for National Merit Scholar recognition. Unlike the SAT I/II, students register for this test at their guidance office.

SAT II - This exam is an achievement exam. Students who are applying to more selective or competitive colleges will want to be familiar with each school's SAT II requirements. Please note - students enrolled in honors science are encouraged to take the respective subject area SAT II.

American College Testing Service Exam:

ACT - The ACT is a test of skills in English, Mathematics, Reading, and Science reasoning. The test may be taken by students in addition to or as an alternative to the SAT I. Students should discuss the differences between the SAT I and the ACT with their guidance counselor to determine if taking the ACT exam should be considered.

NCAA COLLEGE ATHLETIC INFORMATION

NCAA requirements for students who expect to participate in College Athletics:

Students who plan to participate in Division I or II athletics as Freshmen in college must meet certain criteria, as outlined by the NCAA Initial Eligibility Clearinghouse. Students considering participation in college athletics should consult their guidance counselor early in their high school career to see that their course selections meet NCAA requirements. In addition, they should be aware of NCAA Clearinghouse grade point average and SAT/ACT requirements for participation in athletics. Students should file a Clearinghouse application, following their junior year, using forms provided at the guidance office or online at www.eligibilitycenter.org.

COURSE WEIGHTS

<u>Course Type/Level</u>	<u>Weighting Factors</u>
Regents	1.05
Regents Science	1.08
Honors (H)	1.10
Honors Science	1.13
Advanced Placement/College Level	1.16

ADVANCED PLACEMENT OR COLLEGE-AFFILIATED COURSES

The East Meadow School District provides students with a number of opportunities to experience college-level courses while still in high school. **These college-level courses are demanding and rigorous. Many of them require a summer assignment. Students enrolled in Advanced Placement courses are required to take the AP exam, and any state exam for that course.**

Entrance to an Advanced Placement course is based on teacher recommendations and student achievement. In the case of college-affiliated courses, that criteria is established by the individual college or university. Prerequisites are determined by the individual curriculum area department or the college.

Parents are encouraged to speak with their child and his/her teachers to understand the expectations and requirements of an Advanced Placement or college credit course so that students are willing and able to do the work required. Students should seriously consider the impact of taking a large number of Advanced Placement or college credit courses on their overall academic workload.

A summary of these advanced or college-level courses is provided on the next page for your review. For a full description of each course, refer to the appropriate departmental area in this course offering guide.

Please note that tuition at a reduced rate is required for college credit courses and the Educational Testing Service charges a nominal fee for Advanced Placement exams.

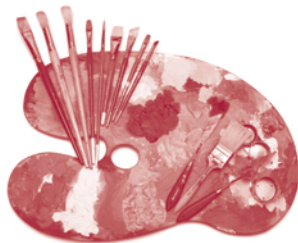
ADVANCED PLACEMENT OR COLLEGE-AFFILIATED COURSES

DEPARTMENT	COURSE TITLE	COLLEGE AFFILIATION OR AP EXAMINATION
ART	Advanced Placement Studio Art (2-D Design, which includes Photography, 3-D Design, or Drawing) Computer Graphics/Digital Illustration (SCALE)*	AP Portfolio C.W. Post College/Long Island University
BUSINESS	Business Law (SCALE)* College Accounting (SCALE)* Computer Literacy (SCALE)* Introduction to Contemporary Business and Economics/Government (SCALE)* Legal Environment of Business (SCALE)* Multimedia PC Applications 3 (SCALE)* Multimedia PC Applications 4 (SCALE)* Personal Finance (SCALE)*	C.W. Post College/Long Island University C.W. Post College/Long Island University C.W. Post College/Long Island University C.W. Post College/Long Island University C.W. Post College/Long Island University C.W. Post College/Long Island University C.W. Post College/Long Island University C.W. Post College/Long Island University
ENGLISH	Advanced Placement English Language and Composition Advanced Placement English Literature and Composition American Literature (SCALE)* English Literature (SCALE)* Syracuse University Project Advance	AP Examination AP Examination C.W. Post College/Long Island University C.W. Post College/Long Island University Syracuse University
LOTE	Advanced Placement Spanish Language ASL, French, Italian, Spanish (Level 4) ASL, French, Italian, Spanish (Level 5)	AP Examination in Level 5 Course Adelphi University St. John's University
MATH	Advanced Placement Calculus AB/BC Advanced Placement Computer Science A Advanced Placement Statistics Basic Calculus Pre-Calculus H	AP Examination AP Examination AP Examination Molloy College Molloy College
SCIENCE	Advanced Placement Biology Advanced Placement Chemistry Advanced Placement Environmental Science Advanced Placement Physics B/C Earth Science (SCALE)* Forensic Technology and Criminal Law (SCALE)* Marine Biology (SCALE)* Science Research in the High School Syracuse University Project Advance: Forensic Science	AP Examination AP Examination AP Examination AP Examination C.W. Post College/Long Island University C.W. Post College/Long Island University C.W. Post College/Long Island University State University of New York at Albany Syracuse University
SOCIAL STUDIES	Advanced Placement Comparative Politics and Government Advanced Placement European History Advanced Placement Psychology Advanced Placement U.S. Government and Politics Advanced Placement U.S. History Advanced Placement World History Forensic Technology and Criminal Law (SCALE)* Introduction to Contemporary Business and Economics/Government (SCALE)* Legal Environment of Business (SCALE)* The Civil War: America's Turning Point (SCALE)* U.S. History (SCALE)*	AP Examination AP Examination AP Examination AP Examination AP Examination AP Examination C.W. Post College/Long Island University C.W. Post College/Long Island University C.W. Post College/Long Island University C.W. Post College/Long Island University C.W. Post College/Long Island University
TECHNOLOGY	Electromechanical Sequence	N.Y. Institute of Technology <u>OR</u> SUNY Farmingdale
*NOTE- SCALE = Secondary Collegiate Articulated Learning Experience at C.W. Post College/Long Island University		

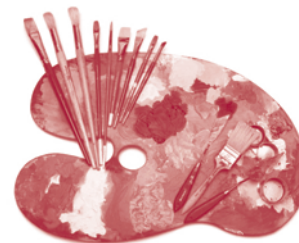
DESCRIPTION OF COURSE OFFERINGS

Courses will be offered based on the following conditions:

- Budgetary approval of equipment for new courses.
- Sequential courses beyond the first year with an enrollment of twelve or fewer students are subject to administrative and Board of Education review. First-level courses and elective courses must have an enrollment of at least fifteen students.



ART



ADVANCED PLACEMENT AND COLLEGE-LEVEL COURSES

ADVANCED PLACEMENT STUDIO ART

Prerequisite: Studio Art: Advanced and/or Departmental Approval

1 year, 1 credit

Weight: 1.16

Grade 12

Elective

Advanced Placement Studio Art enables highly motivated students to do college-level work while still in high school. This course is intended for students seriously committed to studying art. The Advanced Placement Program offers students the opportunity to complete a portfolio in the following areas: 2-D Design (includes Photography), Drawing, and 3-D Design. This course may be taken for a double period for two credits.

INTRODUCTION TO COMPUTER GRAPHICS

- **SCALE (WTCHS)**

Prerequisite: Studio Art 1 or Departmental Approval

1 year, 1 credit

Weight: 1.16

Grades 11-12

Elective

This course is an introduction to the computer as an art-making tool. Basic computer skills, drawing, collage, manipulation of text, palette and photographic information are covered. Emphasis is on creative thinking and its application within a digital environment. This course is offered in conjunction with C.W. Post College, as part of the SCALE offerings. Students may earn three college credits upon successful completion of this course.

ADDITIONAL ART COURSES

ARCHITECTURAL DESIGN AND DRAWING 1 (EMHS)

Prerequisite: None

1 year, 1 credit

Weight: 1.05

Grades 9-12

Elective

This introductory course is designed to develop skills in technical drawing and architecture. Included are problem solving, creative design in various technical drawing areas, architectural design, floor plans and 3-D model houses.

ARCHITECTURAL DESIGN AND DRAWING 2 (EMHS)

Prerequisite: Architectural Design and Drawing 1

1 year, 1 credit

Weight: 1.05

Grades 10-12

Elective

Architectural Design and Drawing 2 treats advanced problems in creative product design using various methods: inks, markers, and water colors. Students will be given advanced design problems in architectural illustration and advanced 3-D model houses. Students will also be given an introduction to building information modeling, i.e. AUTOCAD, Revit.

ARCHITECTURAL DESIGN AND DRAWING 3 (EMHS)

Prerequisite: Architectural Design and Drawing 2

1 year, 1 credit

Weight: 1.05

Grades 11-12

Elective

Architectural Design and Drawing 3 provides advanced problems including furniture design, interior design, product design and stage design. Students will gain architectural experience in designing small commercial buildings, landscape planning and perspective drawings of buildings, using building information modeling.

ARCHITECTURAL DESIGN AND DRAWING 4 (EMHS)	1 year, 1 credit	Grade 12
Prerequisite: Architectural Design and Drawing 3	Weight: 1.05	Elective

Students will work on advanced architectural problems, as well as independent and special projects. Students will also continue to expand upon their knowledge of Building Information Modeling software.

ARTS AND MULTIMEDIA (WTCHS)	1 year, 1 credit	Grade 9
Prerequisite: None	Weight: 1.05	Elective

This course is a joint venture between the Art and Business Departments. The school year will be divided with students learning the art components and applications of the Adobe Creative Suite, specifically Adobe Photoshop and Adobe InDesign, as an artistic medium for one semester. During the Business semester, students will use Photoshop and Fireworks from that same software suite in addition to Microsoft Word, Microsoft Web Page Editor, Microsoft PowerPoint, Windows Sound Recorder, Windows Movie Maker, and SONY Sound Forge.

ARTS EXPLORATION (WTCHS)	1 year, 1/2 credit	Grade 9
Prerequisite: None	Weight: 1.05	Elective

This art course is a year-long exploration with an emphasis on the visual arts. It aims to provide a natural integration of the arts with other areas of the ninth-grade curriculum. The course is designed to meet every other day, aligning lessons with the New York State Standards in the Arts. The course provides students the opportunity to experience a natural integration of Visual Arts, Music, Environmental Science, Social Studies, ELA and Technology with its curriculum.

COMPUTER GRAPHICS	1 year, 1 credit	Grades 10-12
Prerequisite: None	Weight: 1.05	Elective

This course is an introduction to the use of the computer in art and design. Through exploration of the Adobe Photoshop and Illustrator software, students will scan, generate, manipulate and alter images. A varied selection of projects will help students to build an original and diverse digital portfolio. Individuality and self-expression are emphasized throughout this course.

CREATIVE CRAFTS 1	1 year, 1 credit	Grades 9-12
Prerequisite: None	Weight: 1.05	Elective

Students will explore various craft areas, to include: pottery and jewelry making, bookbinding, fiber arts, and work with leather and paper.

CREATIVE CRAFTS 2	1 year, 1 credit	Grades 10-12
Prerequisite: Creative Crafts 1	Weight: 1.05	Elective

This course concentrates on developing creative and technical skills. Students will create original designs in the various craft areas. Projects will include pottery and jewelry making, bookbinding, and work in fiber arts.

CREATIVE CRAFTS 3	1 year, 1 credit	Grades 11-12
Prerequisite: Creative Crafts 2	Weight: 1.05	Elective

Students will have the opportunity to further develop their craft skills and allow for more specialized concentration. Advanced work in pottery, jewelry making, bookbinding, and fiber arts will be included.

CREATIVE CRAFTS 4	1 year, 1 credit	Grade 12
Prerequisite: Creative Crafts 3	Weight: 1.05	Elective

This course will offer students the opportunity to develop their individual skills and personal expression using craft media. Students can choose an area of interest and create an individual course of study.

CREATIVE EXPERIENCE (EMHS)	1 year, 1 credit	Grades 11-12
Prerequisite: None	Weight: 1.05	Elective

Creative Experience is a one-year course of study that responds to the national direction for arts education. It serves to include and integrate the four arts disciplines – visual arts, music, drama, and theater. This course will offer a hands-on experience, providing students with an opportunity to recognize and appreciate the connections that exist among the four arts disciplines.

NOTE: The District Art/Music requirement calls for all students to take a minimum of two credits of Art, or Music, or 1 credit each of Art and Music. One unit of the Creative Experience may be used to satisfy this requirement in lieu of two units of Art and/or Music. Students may also use one unit of Introduction to Theater Arts, with participation in all associated Drama/Musical events, to satisfy one of the Art/Music units.

FASHION DESIGN/ILLUSTRATION (WTCHS)	1 year, 1 credit	Grades 10-12
Prerequisite: Studio Art 1 or Creative Crafts 1	Weight: 1.05	Elective

This course is designed to give the student who has an interest in fashion an introduction to design and illustrative drawing. Special emphasis will be placed on fashion history, drawing from the model, and garment and accessories design.

MULTIMEDIA PC APPLICATIONS 1 (EMHS)	1 year, 1 credit	Grades 9-12
Prerequisite: None	Weight: 1.05	Elective

Students will work on various computer programs. Emphasis will be placed on computer graphics, animation, the Internet, multimedia presentation software, desktop publishing and web page programs. Students will learn how to use various technologies and explore basic design techniques as they relate to the visual arts and business. This course may qualify for Art or Business credit.

PHOTOGRAPHY 1	1 year, 1 credit	Grades 10-12
Prerequisite: Studio Art 1 or Departmental Approval	Weight: 1.05	Elective

Photography 1 is a comprehensive course which introduces the student to the use of the 35mm camera, basic processing techniques for black and white film, and includes the history of photography. Students must have access to a 35mm camera.

PHOTOGRAPHY 2	1 year, 1 credit	Grades 11-12
Prerequisite: Photography 1	Weight: 1.05	Elective

This course is designed to encourage students to use the camera creatively. Students will become more familiar with the technical aspects of photography by working with black and white techniques, which include lighting, composition, developing, printing and enlarging, cropping and mounting. Students must have access to a 35mm camera.

PHOTOGRAPHY: ADVANCED LEVEL 3 & 4	1 year, 1 credit	Grades 11-12
Prerequisite: Photo 2 or Departmental Approval	Weight: 1.05	Elective

This course is for the student who is considering a college major in photography or working in the field after high school. This course will offer students the opportunity to develop their individual styles. Students must have access to a 35mm camera.

PRINTMAKING 1 semester, 1/2 credit Grades 10-12
Prerequisite: Studio Art 1, Creative Crafts 1, or Departmental Approval Weight 1.05 Elective

This course is an introduction to a variety of printmaking methods. Students will gain an understanding of lino print, collograph, etching and silkscreen.

SCULPTURE 1 semester, 1/2 credit Grades 10-12
Prerequisite: Studio Art 1, Creative Crafts 1, or Departmental Approval Weight 1.05 Elective

In this course, students will explore space and volume in three dimensions. Emphasis will be placed on creative use of a variety of media, including clay, wood and found objects.

STUDIO ART 1 1 year, 1 credit Grades 9-12
Prerequisite: None Weight: 1.05 Elective

This course provides an introduction to the fundamentals of drawing, color, design and sculpture. It develops skills and facility in the use of various media. Appreciation and creative expression in design and representation are stressed. Studio Art 1 is required for those planning a major sequence in art. Upon completing the course, a portfolio/comprehensive assessment will be given as an integral component of the instructional program.

STUDIO ART 2 1 year, 1 credit Grades 10-12
Prerequisite: Studio Art 1 Weight: 1.05 Elective

Studio Art provides instruction in drawing, painting, and 2-dimensional design. While applying their creative energies in a variety of media, students will develop individual talents and skills. Each student will execute a series of projects in a variety of media.

STUDIO ART 3 1 year, 1 credit Grades 11-12
Prerequisite: Studio Art 2 Weight: 1.05 Elective

Studio Art 3 is designed for the art major seeking to complete a four- or five-year sequence in art studies. This course provides the opportunity for a wide variety of in-depth experiences in the areas of drawing, painting, mixed media, sculpture, and printmaking. Students will be exposed to using pencil, acrylic, watercolor, mixed media, and three-dimensional materials. Throughout the course, discussions of artists and art movements will be stressed. This course may be taken for a double period for two credits.

STUDIO ART 4 1 year, 1 credit Grade 12
Prerequisite: Studio Art 3 Weight: 1.05 Elective

Building on skills learned in earlier studio art classes, this course investigates the practice of drawing and painting as expressive and descriptive art media. Students will use a variety of materials and techniques, learning about the past, present and (possible) future use of drawing and painting. This course may be taken for a double period for two credits.





CAREER EDUCATION

CAREER ACADEMIES

In concert with Long Island Works Coalition and the Ford Partnership for Advanced Studies (PAS), both East Meadow High School and W.T. Clarke High School are offering interdisciplinary courses in the form of Career Academies. This industry-driven initiative prepares a new generation of students to be career ready in a 21st Century world.

The Career Academy is offered to twelfth graders as part of the curriculum of the Introduction to Contemporary Business and Economics/Government class.

BUSINESS COURSES

ADVANCED PLACEMENT AND COLLEGE-LEVEL COURSES

BUSINESS LAW - SCALE (EMHS)

Prerequisite: Acceptance to SCALE Program

1 year, 1 credit

Weight: 1.16

Grades 11-12

Elective

Students will study criminal and civil issues with an emphasis on business law. This course explores how law affects everyday life. Topics covered include origins of our courts and laws, how ethics affect our law, torts, contracts, consumer, property, marriage, international, agency and employment law. Students will learn how business law affects individuals and business organizations. Upon successful completion of the course, students may earn three college credits from C.W. Post College.

COLLEGE ACCOUNTING - SCALE

Prerequisite: Acceptance to SCALE Program

1 year, 1 credit

Weight: 1.16

Grades 11-12

Elective

This course is designed to give students the foundation upon which they can build a career as an accountant, business administrator, or as a proprietor of a business enterprise. This course will include all aspects of accounting related to single proprietorship, partnerships, and corporate accounting. Students may earn up to six college credits from C.W. Post College.

COMPUTER LITERACY - SCALE

Prerequisite: Acceptance to SCALE Program

1 semester, 1/2 credit

Weight: 1.16

Grades 11-12

Elective

Students will fully explore the powerful potential of Microsoft Office Suite: Excel, Word, PowerPoint, and Access. Emphasis will be placed on developing presentations, résumé writing, formatting letter styles, budgeting techniques, database development, flyers, and much more. After students are trained in the Microsoft Office Suite, students will take the Microsoft Certified Application Specialist exam through the Microsoft Business Certification Program and become recognized as a certified Microsoft Office Specialist (MOS). With this certification, students are recognized as possessing a mastery level of knowledge in the Microsoft Office Suite in a specific area--Word, PowerPoint, Excel, and Access. With this certification students remain competitive in the academic and professional environments. Upon successful completion of the course, students may earn three college credits from C.W. Post College.

INTRODUCTION TO CONTEMPORARY BUSINESS AND ECONOMICS/GOVERNMENT - SCALE

Prerequisite: Acceptance to SCALE Program

1 year, 1-2 credits

Weight: 1.16

Grade 12

Elective

Note: This course can be taken in lieu of the required Participation in Government and Economics courses.

This course examines the role of business in American society, the interrelated activities through which business provides the goods and services essential to contemporary society, and the interrelationship of business and government, labor, and society at large. General areas of study: foundations of business, management of the enterprise, marketing, finance, financial services, contemporary problems, and developments. Upon successful completion of this course, students may be able to earn three college credits from C.W. Post College.

MULTIMEDIA PC APPLICATIONS 3 - SCALE (EMHS)Prerequisite: Multimedia PC Applications 2
Acceptance to SCALE Program1 year, 1 credit
Weight: 1.16Grades 11-12
Elective

This course is project oriented and will incorporate the most up-to-date software to create dynamic, interactive web pages and other multimedia projects using the Adobe Suite. Advanced features in Dreamweaver will be used to create web pages. Elements of video creation, production, and editing will also be explored. Students will create Flash movies and animated gifs in Fireworks. Upon successful completion of the course, students may earn six college credits from C.W. Post College.

MULTIMEDIA PC APPLICATIONS 4 - SCALE (EMHS)Prerequisite: Multimedia PC Applications 3 and
Acceptance to SCALE Program1 year, 1 credit
Weight: 1.16Grades 11-12
Elective

This course is the culmination of the multimedia experience. Students will continue to enhance web design skills while exploring audio editing techniques and produce video media. Students will engage in a realistic hands-on experience and will be expected to function at a professional level. In addition, students are expected to become proficient in the use of Microsoft Office Suite and become certified as Microsoft Office Specialists (MOS). Upon successful completion of the course, students may earn three college credits from C.W. Post College.

PERSONAL FINANCE - SCALE (WTCHS)

Prerequisite: Acceptance to SCALE Program

1 semester, 1/2 credit
Weight: 1.16Grades 11-12
Elective

This course gives students an overview of how to manage their individual financial circumstances. Topics covered will include basic financial recordkeeping, personal, auto, mortgage and home equity loans, investing fundamentals, property and casualty insurance, life insurance, health insurance, and tax planning. This course is offered in conjunction with C.W. Post College, as part of the SCALE offerings. Students may earn three college credits upon successful completion of this course.

ADDITIONAL BUSINESS COURSES

21ST CENTURY SKILLS

Prerequisite: None

1 year, 1/2 credit
Weight: 1.05Grades 9-10
Elective

By exposing students to the differences between the middle school and high school environments, students will find the transition easier with 21st Century Skills. Students find that study time is greatly reduced and that grades improve when they conscientiously apply study skills. In this course, students will improve academic performance skills as a precursor to college. In addition, they will learn to improve reading, writing, and computer skills for 21st Century learning.

ARTS AND MULTIMEDIA (WTCHS)

Prerequisite: None

1 year, 1 credit
Weight: 1.05Grade 9
Elective

This course is a joint venture between the Art and Business Departments. The school year will be divided with students learning the art components and applications of the Adobe Creative Suite, specifically Adobe Photoshop and Adobe InDesign, as an artistic medium for one semester. During the Business semester, students will use Photoshop and Fireworks from that same software suite in addition to Microsoft Word, Microsoft Web Page Editor, Microsoft PowerPoint, Windows Sound Recorder, Windows Movie Maker, and SONY Sound Forge.

BUSINESS MANAGEMENT

Prerequisite: None

1 year, 1 credit
Weight: 1.05Grades 10-12
Elective

This course provides students with the opportunity to study the problems encountered in the ownership and operation of a small business enterprise. Specific application will be made to determine location, purchasing practices, sales, advertising, and the financial aspects of a small business. The students will utilize various computer applications, attend field trips, hear from guest speakers, and participate in business-based competitions in order to foster "real life" experience as business owners.

BUSINESS MATH	1 year, 1 credit	Grades 11-12
Prerequisite/Co-requisite: Algebra and an additional Math or Departmental Approval	Weight: 1.05	Elective

This course will prepare students for situations they will encounter when they venture out into the real world. The course is geared towards everyday encounters involving basic skills which can be difficult for some students. This course satisfies one year of the mathematics requirement beyond successful completion of a Regents math course.

CAREER AND COLLEGE PLANNING (WTCHS)	1 semester, 1/2 credit	Grades 9-12
Prerequisite: None	Weight: 1.05	Elective

This course is designed to assist students in making long- and short-range decisions, while further enhancing critical life skills. Topics that will be integrated throughout the semester are career awareness, planning the college application process, the use of technology in the research process, and communication skills.

DECA (WTCHS)	1 semester, 1/2 credit	Grades 10-12
Prerequisite: None	Weight: 1.05	Elective

This class is specially designed for all DECA club members who are interested in competing in regional, state, and national business events. The course briefly reviews all major aspects of business, including economics, accounting, marketing, management, law, and ethics. This interactive course also allows for students to rehearse role-playing and sharpen their presentation skills in order to compete and succeed at every level of competition.

FASHION MERCHANDISING 1	1 year, 1 credit	Grades 10-12
Prerequisite: None	Weight: 1.05	Elective

This course introduces students to the fashion industry. Students will explore the fashion cycle beginning with designing, manufacturing, and buying and selling of clothes. Exposure to the many careers in the fashion industry will be an integral part of the course.

FASHION MERCHANDISING 2	1 year, 1 credit	Grades 11-12
Prerequisite: Fashion Merchandising 1	Weight: 1.05	Elective

This course will provide students with a more in-depth study of the fashion industry. Students will learn visual merchandising techniques by participating in hands-on activities. The course will involve creation of a portfolio, using individual and group projects as its basis.

INTRODUCTION TO LAW	1 year, 1 credit	Grades 9-10
Prerequisite: None	Weight: 1.05	Elective

This course will include the following major components: 1) Writing for the Law, which will include information gathering, research, legal briefs, petitions, and critical writing; 2) Speaking for the Law will include presentations, critical discussions, introduction to oral arguments and extemporaneous speaking; 3) Legal Multimedia presentations will focus on the integration of multimedia and relevant technology to develop presentations related to contemporary issues; 4) The Legal Speakers Bureau will incorporate various professionals into the classroom experience. These professionals will include attorneys, police officers, legal secretaries, judges, probation officers, corrections officers, social workers, legal consultants, forensic scientists, and others, in an effort to introduce careers related to law.

INTRODUCTION TO MARKETING (WTCHS)	1 year, 1 credit	Grades 10-12
Prerequisite: None	Weight: 1.05	Elective

This is an introductory course that explores the four Ps of Marketing: Price, Place, Product, and Promotion. Advertising is heavily emphasized through interactive projects. Some projects include Superbowl commercial analysis, promoting a virtual reality rock band online, and competing in the TV hit *Apprentice* marketing contests. In the course, students will increase their marketing skills and ultimately construct a professional portfolio highlighting the marketing projects created.

INTRODUCTION TO SERVICE LEARNING

1 semester, 1/2 credit

Grades 10-12

Prerequisite: None

Weight: 1.05

Elective

This course is designed to promote the philosophy and practice of community and public service. Students will outline social issues, study and discuss concepts in community service disciplines, learn professional skills, explore service careers, and utilize their varied abilities to promote and complete service-learning projects. Students will examine and develop a range of skills in a number of interpersonal areas: group dynamics, decision-making, managing differences, and leadership and influence as they pertain to primarily non-profit organizations and their ability to lead a volunteer workforce. Through a business and computer-based technology curriculum, the students will receive a foundation in financial planning and utilize state-of-the-art computer applications, including Office Suite and In-Design, in order to produce promotional information for community service projects.

INTRODUCTION TO STOCK MARKET

1 year, 1 credit

Grades 11-12

Prerequisite: None

Weight: 1.05

Elective

This course will provide students with an overview of the financial and securities industry, which include the New York Stock Exchange, American Stock Exchange and NASDAQ. Students will be involved in a hands-on interactive environment that will allow them to trade stocks and compete with other schools by using virtual websites. The class will also explore investing strategies outside the direct major financial sectors, such as mutual funds, treasury notes and commodities.

MICROSOFT OFFICE SKILLS (WTCHS)

1 semester, 1/2 credit

Grades 9-12

Prerequisite: None

Weight: 1.05

Elective

Students will fully explore the powerful potential of the new Microsoft Office Suite 7: Excel, Word, PowerPoint, and Access. Emphasis will be placed on developing presentations, résumé writing, formatting letter styles, and enhancing communication skills. Students will also utilize software programs to create memorable personalized movies and slide shows.

MULTIMEDIA PC APPLICATIONS 1 (EMHS)

1 year, 1 credit

Grades 9-12

Prerequisite: None

Weight: 1.05

Elective

Students will work on various computer programs. Emphasis will be placed on computer graphics, animation, the Internet, multimedia presentation software, desktop publishing and web page programs. Students will learn how to use various technologies and explore basic design techniques as they relate to the visual arts and business. This course may qualify for Art or Business credit. The next level course in the Multimedia sequence is Multimedia PC Applications 2.

MULTIMEDIA PC APPLICATIONS 2

1 year, 1 credit

Grades 10-12

Prerequisite: Multimedia PC Applications 1

Weight: 1.05

Elective

This course will introduce students to advanced techniques associated with the utilization of the Internet, computer graphics, multimedia presentation, and web page design as they apply to real-life situations and personal portfolio development. These skills give a concrete foundation for students to progress to Multimedia 3, in which they can develop multimedia portfolios for colleges. The next level course in the Multimedia sequence is Multimedia PC Applications 3 (6 college credits).

PRINCIPLES OF MARKETING (EMHS)

1 year, 1 credit

Grades 10-12

Prerequisite: None

Weight: 1.05

Elective

This comprehensive hands-on course is intended for the serious business student and covers a variety of contemporary issues in marketing. The following components will be highlighted: market segmentation, marketing research, advertising and design, promotional techniques, distribution, sales, pricing, and e-commerce. In this project-driven course, students will work with local professional sports teams and businesses in the East Meadow community, in a professional workshop environment. This course will increase the student's practical marketing skills and assist in constructing a professional portfolio highlighting the projects created.

SCHOOL SERVICE Prerequisite: None	1 year, 1 credit Weight: 1.05	Grades 11-12 Elective
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This course is designed to provide practical experience and school offices serve as real world venues.

SPORTS MARKETING 1 Prerequisite: None	1 semester, 1/2 credit Weight: 1.05	Grades 10-12 Elective
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This course will focus upon the marketing aspects of the sports industry. The following topics will be discussed: essentials related to the field of marketing, supply and demand of sports promotional products, marketing information systems as related to the field of sports, and the special nature of sports marketing.

SPORTS MARKETING 2 Prerequisite: Sports Marketing 1 or Departmental Approval	1 semester, 1/2 credit Weight: 1.05	Grades 10-12 Elective
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This course will focus upon marketing aspects as related to the sports industry. The following components will be highlighted: areas of entertainment as they apply to the sports industry; associated legal aspects, including contracts; in-depth analysis of the sports agency; and projects geared towards on-site promotions using specific marketing skills.

TRAVEL AND TOURISM (WTCHS) Prerequisite: None	1 year, 1 credit Weight: 1.05	Grades 9-12 Elective
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This course will provide students with an introduction to the major segments of the travel/tourism industry. It will teach solid marketing concepts within the context of the industry. Students will be involved in hands-on activities involving travel/tourism marketing foundations, the economic impact of the industry, technology and sales. This project-driven course will also include the field of hospitality and expose students to the many careers involved in these areas.

TRIAL LAW (EMHS) Prerequisite: None	1 year, 1 credit Weight: 1.05	Grades 10-12 Elective
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This course is designed for students to investigate the foundations of our trial system. Throughout the year, students will research our court system and perform mock trials for hands-on experience. The mock trial preparation will provide a technical introduction to the major components of a trial: opening statements, direct and cross examinations, and closing arguments. Oral presentations are designed to assess a student's comprehension of course content through the use of various multimedia tools including PowerPoint, Photoshop and Inspiration.

VIRTUAL ENTERPRISE Prerequisite: none	NEW COURSE 1 year, 1 credit Weight 1.05	Grades 11-12 Elective
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This course is designed around a virtual business environment, allowing students to experience all facets of employment in an actual business setting while remaining in the classroom. Students enrolled in this course will work collaboratively to develop an original business concept and become immersed in every aspect of business management, including human resources, accounting, product development, production, distribution, marketing and sales. During the daily classroom simulation, students will engage in trade with other virtual, or practice, firms around the world, enabling them to understand how employees, workgroup teams, and departments interact and work together toward the achievement of established company goals. Students will be exposed to a rigorous curriculum, richly enhanced by hands-on applications, and covering a wide range of academic skills. The skills and experiences gleaned from this course may better prepare students for advancement to a post-secondary institution and a career in business.

ENGINEERING PREPARATORY PROGRAM AT W.T. CLARKE HIGH SCHOOL

This program is designed to prepare students for all college engineering disciplines. It can also serve to prepare students to enter the industry as electrical, mechanical, or electromechanical technicians. Students completing the entire Electromechanical sequence may receive up to seven college credits from the New York Institute of Technology or two college credits from SUNY Farmingdale.

PRINCIPLES OF ENGINEERING

Prerequisite: None

1 year, 1 credit

Weight 1.05

Grades 10-12

Elective

The goal of this course is for students to apply mathematic and scientific principles to real-world problem solving. This is a project-oriented class. Some examples of the topics that will be studied include: buoyancy, flight, propulsion, and structural and gear ratios.

ELECTROMECHANICAL TECHNOLOGY DESIGN

Prerequisite: None

1 year, 2 credits

Weight 1.10

Grades 11-12

Elective

The course is designed for students to gain the knowledge and to be able to design and build electronic and mechanical projects. Topics include: mechanical drawing, computer-aided design, 3-dimensional design, computer repair, electricity/electronics, microprocessors and microcontrollers.

ROBOTICS AND ELECTROMECHANICAL SYSTEMS

Prerequisite: None

1 year, 2 credits

Weight 1.16

Grade 12

Elective

This class will allow students the opportunity to design and build electromechanical projects. Topics will include manufacturing processes, CAD/CAM, robotics, and electromechanical systems.

TECHNOLOGY AND TRADE COURSES

AUTO TECHNOLOGY 1 (WTCHS)

Prerequisite: None - Refer to Description Below

1 year, 1 credit

Weight: 1.05

Grades 10-12

Elective

AUTO TECHNOLOGY 2 (WTCHS)

Prerequisite: Auto Technology 1 - Refer to Description Below

1 year, 1 credit

Weight: 1.05

Grades 11-12

Elective

AUTO TECHNOLOGY 3 (WTCHS)

Prerequisite: Auto Technology 1 & 2

1 year, 1 credit

Weight: 1.05

Grades 11-12

Elective

Auto Technology 1, 2, and 3 provide students an opportunity to learn basic and intermediate skills needed for entry level in the Auto Service industry. These courses provide theory of operation as well as hands-on practical experience. A segment of this occupational education course will be devoted to occupationally-related math and related communication skills for the world of work. These courses may be taken for a double period for two credits.

CABINETMAKING 1 (EMHS)

Prerequisite: None - Refer to Description Below

1 year, 2 credits

(2 periods)

Weight: 1.05

Grades 10-12

Elective

CABINETMAKING 2 (EMHS)

Prerequisite: Cabinetmaking 1

1 year, 3 credits

(3 periods)

Weight: 1.05

Grades 11-12

Elective

CABINETMAKING 3 (EMHS)

Prerequisite: Cabinetmaking 1 & 2

1 year, 3 credits
(3 periods)
Weight: 1.05Grades 11-12
Elective

Cabinetmaking 1, 2, & 3 teach the skills that are necessary to be a cabinetmaker. Students build many projects for the community, school and for their own families. Some of these projects include night stands, small and large tables, desks, hutches, dry sinks, TV stands, stereo units, and many other fine pieces of furniture. In addition, students learn to design and construct kitchen cabinets, bathroom vanities, and plastic-laminated countertops and furniture. Students will complete a portfolio which showcases projects completed in class. Skills acquired in this program can lead to employment in various cabinet shops and woodworking industries throughout Long Island. A segment of this occupational education course may be devoted to occupationally related math and related communication skills for the world of work. Projects contracted by Jones Beach will also address carpentry skills. Upon completion of this course sequence, students are eligible to earn a Certificate of Completion in Carpentry and Cabinetmaking, which lists each student's acquired skill and is held in high regard by both the trade unions and future employers.

CARPENTRY 1 (WTCHS)

Prerequisite: None - Refer to Description Below

1 year, 1 credit
Weight: 1.05Grades 10-11
Elective**CARPENTRY 2 (WTCHS)**

Prerequisite: Carpentry 1

1 year, 1 credit
Weight: 1.05Grades 11-12
Elective**CARPENTRY 3 (WTCHS)**

Prerequisite: Carpentry 1 & 2

1 year, credit
Weight: 1.05Grades 11-12
Elective

The Carpentry courses (1, 2, 3) are designed to provide hands-on training in the ever-changing Building Trades Industry. New technology and building products are introduced, along with hand machinery and power equipment. Production methods for translating blueprints to wall plates, framing a model house to scale from the foundation, introduction of trade-related theory, correlating construction of full-size projects such as sheds, gazebos and various major carpentry structures for both school and community are included. A segment may be devoted to a program known as the "School to Work: Partnership with New York State Parks Department" that involves construction of pre-fab structures for Jones Beach. Upon the completion of this course sequence, students are eligible to earn a Building Trades Certificate of Completion, which lists each student's acquired skill and is held in high regard by both the trade unions and future employers. Assessment is through individual projects. These courses may be taken for a double period for two credits.

**TECHNICAL THEATRE LIGHTING, SOUND,
AND DESIGN 1 (WTCHS)**

Prerequisite: None

1 year, 1 credit
Weight: 1.05Grades 10-12
Elective**TECHNICAL THEATRE LIGHTING,
SOUND, AND DESIGN 2 (WTCHS)**

Prerequisite: Technical Theatre Lighting, Sound, and Design 1

1 year, 1 credit
Weight: 1.05Grades 10-12
Elective

These courses will explore the basics of technical theatre involving stage lighting, scenery construction with design, stage rigging and sound systems. The class will be a mixture of lectures in technical theatre and hands-on projects, with emphasis on safety, and the use of hand and power tools and equipment. Students will be familiarized with the use of all equipment, the scene shop, auditorium, and little theater. The class will also participate in the building of stage sets and the striking of all school productions.

TECHNOLOGY EDUCATION (WTCHS)

Prerequisite: None

1 year, 1 credit
Weight: 1.05Grades 9-12
Elective

Technology Education is an exploratory program of instructional resources, materials, and systems. Students will study how technology impacts the world and society. Through hands-on activities and group projects, the student will explore aerospace, land and marine transportation systems, as well as design and manufacturing systems.



ENGLISH/LANGUAGE ARTS

REQUIRED ENGLISH COURSES

ENGLISH 9

Prerequisite: None

1 year, 1 credit
Weight: Dependent on Level

Grade 9
Required

Ninth-grade students continue the study of classical literature, reading novels, plays, and poetry by recognized authors. This literacy core curriculum includes creative and expository writing, reinforcement of oral and written language skills, and continued development of research and reading skills that contribute to the appreciation of the content of multicultural world literature.

ENGLISH 10

Prerequisite: English 9

1 year, 1 credit
Weight: Dependent on Level

Grade 10
Required

Tenth-grade students continue studies of multicultural world literature. The novel, poetry, plays, and short stories serve as the core curriculum. Students will be introduced to various types of writing: persuasion, narration, exposition, description and the development of the research paper.

ENGLISH 11

Prerequisite: English 10

1 year, 1 credit
Weight: Dependent on Level

Grade 11
Required

American classics will be the major focus for the year, with particular attention to the development of our culture through studies of the authors that reflect these themes. Composition and preparation for the English/Language Arts Examination is emphasized. Continued practice in language skills includes usage, vocabulary, and semantics. The course terminates with the required Comprehensive English Regents Examination.

ENGLISH 12

Prerequisite: English 11

1 year, 1 credit
Weight: Dependent on Level

Grade 12
Required

English literature, world literature, and topics of inquiry are among the fields of study covered in this course. Major poets, playwrights, novelists, and essayists are studied thematically and across cultures. Portfolio activities, including a research paper, presentations, and independent reading, will also be conducted in this course, in addition to an individualized senior project.

ADVANCED PLACEMENT AND COLLEGE-LEVEL COURSES

ADVANCED PLACEMENT IN LANGUAGE & COMPOSITION

Prerequisite: Departmental Approval

1 year, 1 credit
Weight: 1.16

Grade 11
Elective

This course concentrates on works of non-fiction. The reading material will focus on essays, biographies, and autobiographies. The emphasis of the writing component will focus on the development of skills of analyzing the rhetoric of prose passages. Students will be required to take the Advanced Placement Examination in Language Composition. This course terminates with the required Comprehensive English Regents Examination for 11th grade students. Summer reading is required for this course.

ADVANCED PLACEMENT IN LITERATURE & COMPOSITION

Prerequisite: Departmental Approval

1 year, 1 credit
Weight: 1.16

Grade 12
Elective

This is a college-level course for students who have demonstrated their capabilities and interest in the study and analysis of literature, as well as a high degree of competency in writing. Selected works of British, American and Continental literature will be read. Frequent writing assignments are designed to develop the capacity to write coherent, graceful and intelligent commentary on the reading. Students will be contractually required to take the College Board Advanced Placement Examination. Summer reading is required for this course.

AMERICAN LITERATURE - SCALE

Prerequisite: English 10, Departmental Approval, and Acceptance to SCALE Program

1 year, 1 credit
Weight: 1.16Grade 11
Elective

This course will focus upon the study of American literary works. Composition and preparation for the English Language Arts Comprehensive Regents Examination will be emphasized. This course is offered in conjunction with C.W. Post College, as part of the SCALE program. Students may earn up to six college credits upon successful completion of this course. This course terminates with the required Comprehensive English Regents Exam.

ENGLISH LITERATURE - SCALE (EMHS)

Prerequisite: Acceptance to SCALE Program and Departmental Approval

1 year, 1 credit
Weight: 1.16Grade 12
Elective

This course will provide students with exposure to introductory college-level courses in literature and composition. Students will read works of English and world literature, as well as respond to literary essays and critical reviews. Frequent writing assignments will provide students the opportunity to develop the necessary skills for writing argumentative, persuasive, and personal essays. The year culminates with a Senior Project Research paper. This course is offered in conjunction with C.W. Post College, as part of the SCALE offerings. Students may earn six college credits upon successful completion of this course.

SYRACUSE ENGLISH (WTCHS)

Prerequisite: 85 average in English 11 and Departmental Approval

1 year, 1 credit
Weight: 1.16Grade 12
Elective

Syracuse University Project Advance is a college-level course divided into two semesters. ETS 105 is a writing studio driven by a specific topic of inquiry in which students engage in experimentation with a variety of writing styles. Students are exposed to the work of their peers through the seminar method of editing. Personal observation papers, ethnographies, research papers, and literary analysis papers provide the framework for this course. ETS 141 is a course designed to explore "how" we read texts. It includes a survey of the history of literary criticism with emphasis given to recent movements: new criticism, deconstruction, reader-response theory, as well as the feminist and historical and Marxist approaches. Summer reading is required. Students enrolled in this course may earn six college credits.

ADDITIONAL ENGLISH/LANGUAGE ARTS COURSES**CREATIVE WRITING**

Prerequisite: None

1 year, 1 credit (EMHS)
1 semester, 1/2 credit (WTCHS)
Weight: 1.05Grades 11-12
Elective

The one-semester course places emphasis on individual and group investigation of techniques of good writing. It stresses the imaginative forms of writing, including description, narration, poetry, humor, and drama. Students are encouraged to develop not only creative imagination, but also clarity and effectiveness of expression.

EXPLORING THE GRAPHIC NOVEL (WTCHS)

Prerequisite: None

1 semester, 1/2 credit
Weight 1.05Grades 11-12
Elective

Graphic novels are the fastest growing literary genre worldwide. Graphic novels are an infusion of art and literature and merge together the best of both artistic media. This course is designed to examine graphic texts as literature and will seek to define the graphic novel as a unique body of work. It is the aim of this class to explore both classical and contemporary cultural themes in graphic novels, analyze texts for meaning through language and art, and trace the history of storytelling through a wide variety of traditional and modern graphic novels.

FILM STUDIES 1

Prerequisite: None

1 semester, 1/2 credit
Weight 1.05Grades 11-12
Elective

Film is not so different from literature. Both employ the art of storytelling to explore the rich mysteries of life, culture and personality. This course explores American and International cinema through a study of genre, director and era in an attempt to reveal film as the emerging contemporary literary form of the new century. Class viewings, analysis papers, note-taking/observation skills and class discussion form the basics of this elective.

FILM STUDIES 2

Prerequisite: Film Studies 1

1 semester, 1/2 credit

Weight 1.05

Grades 11-12

Elective

This course builds on the foundation of Film Studies 1 by further exploring the use of basic filmmaking techniques to create and convey meaning in films. The relationship between literature and film explored in Film Studies 1 is broadened to include in-depth genre studies, the role of imagery and symbolism in films, and the role of film director as “author.” Unlike Film Studies 1, this course will afford students the opportunity to view multiple films by one director, including films directed by Kubrick, Hitchcock, Allen, Eastwood, Fellini, Spielberg, Lucas, Scorsese, and Coppola. Students in this class take on the role of the film critic and will share insights during class discussions and through written film analyses.

JOURNALISM 1

Prerequisite: None

1 year, 1 credit

Weight 1.05

Grades 9-12

Elective

This is an introductory course that provides a general overview of all aspects of journalism. This includes writing (information, fact finding, and interview techniques), photography, advertising, layout, design, and publication. This course focuses on the fundamentals of news writing.

JOURNALISM 2 (EMHS)

Prerequisite: Journalism 1

1 year, 1 credit

Weight: 1.05

Grades 10-12

Elective

The focus for this course is to expand and apply basic skills and information learned in Journalism 1 to actual production of articles in the school newspaper and special media-oriented projects. In the Journalism 2 class, students work in a laboratory setting using desktop publishing and layout programs to publish their written assignments.

LITERARY NEW YORK, NEW YORK (WTCHS)

Prerequisite: None

1 semester, 1/2 credit

Weight 1.05

Grades 11-12

Elective

This course will focus on exposing the students to the history, culture and literature of New York City. It will allow students the opportunity to explore the vast wealth of literature focused on this great city. In order to enhance their knowledge of New York City, the class will explore literature that focuses on the writers that have employed the city as a character and not merely a setting. These writers include Arthur Miller, Neil Simon, E. L. Doctorow, Stephen Crane, Allen Ginsberg, Langston Hughes, Walt Whitman and Hart Crane. The students will learn about such New York-based literary movements as the immigration movement, the Harlem Renaissance, and the Bohemian movement of the 1950s.

PUBLIC SPEAKING 1

Prerequisite: None

1 semester, 1/2 credit

Weight: 1.05

Gr. 9-12 (EMHS)

Gr. 10-12 (WTCHS)

Elective

This course is designed as an introduction to the techniques, strategies, and preparations for oral and written speech. It is the aim of this course to offer students practical approaches to ease anxiety about speaking in front of an audience. Students will study a plethora of speech styles for a variety of audiences, including those in the academic, professional, and social realms.

PUBLIC SPEAKING 2 (EMHS)

Prerequisite: Public Speaking 1

1 semester, 1/2 credit

Weight: 1.05

Grades 9-12

Elective

This advanced level course serves to enhance the techniques taught in Public Speaking 1, with a greater emphasis on the craft, rhetoric, and delivery of speech. Students will examine the art of oratorical debate, audience analysis, and structures of sound argumentation. Emphasis will be placed on research techniques and the application of those techniques in speech.

SCIENCE FICTION, MYSTERY & HORROR

Prerequisite: 9th and 10th Grade English

1 semester, 1/2 credit
Weight: 1.05Grades 11-12
Elective

This class will use literature to discuss the nature of society and its impact on the world around us. Edgar Allen Poe as the precursor to contemporary science fiction and horror writers will be read. Students will also examine fiction as well as non-fiction, by such authors as Ray Bradbury, Isaac Asimov, Stephen King, Arthur Clarke, Philip K. Dick and others. Students will study the concepts of horror and the macabre in relation to the American experience, as well as look at the impact and popularity of sci-fi movies and series.

SHAKESPEAREAN DRAMA (EMHS)

Prerequisite: English 10

1 semester, 1/2 credit
Weight: 1.05Grades 11-12
Elective

This course will focus upon the reading of Shakespearean plays and the staging, acting and production of various scenes. A survey of genres of Shakespeare's art, the great tragedies, comedies, romances, and relevant poetry will also be explored.

SPORTS LITERATURE

Prerequisite: None

1 semester, 1/2 credit
Weight: 1.05Grades 11-12
Elective

This class will use the lens of athletics to expose students to literature and journalism. In this class, students will focus on various perspectives of athleticism, including the sportswriter, coach, player and spectator. Works studied will include authors such as Mike Lupica, Rick Reilly, Jack Kinsella and John Wooden.

THEATRE ARTS - INTRODUCTION

Prerequisite: None

1 year, 1 credit (EMHS)
1 semester, 1/2 credit (WTCHS)
Weight: 1.05Grades 10-12
Elective

This course is designed to increase appreciation for the work put into a successful dramatic production and will include exposure to all areas of the theater arts. Students will read plays for dramatic understanding and address theater history from the early Greek dramatists to modern theater. There will be work on voice and movement in preparation for performing monologues and scenes, but understanding of the texts will also be expressed through offstage/backstage activities such as scenic design, publicity and direction. This course may include trips to live performances.

THEATRE ARTS - ADVANCED

Prerequisite: Theatre Arts - Introduction

1 year, 1 credit (EMHS)
1 semester, 1/2 credit (WTCHS)
Weight: 1.05Grades 10-12
Elective

This course will build upon work done in the introductory course and will be geared strongly towards students interested in performance. Activities will include a number of performances and direction of a one-act play and/or the writing of a scene. This course may include trips to live performances.



ENGLISH AS A SECOND LANGUAGE (ESL) PROGRAM AT EAST MEADOW HIGH SCHOOL

Students whose native language is other than English, and who need to demonstrate proficiency in speaking, listening comprehension, reading comprehension, and writing in English, will be placed in English as a Second Language (ESL) courses to fulfill diploma requirements.

ESL BASIC ENGLISH	1 year, 1 credit	Grades 9-12
Prerequisite: None	Weight: 1.05	Requirement of ESL

This course introduces the student to the English language via development of the four basic skills of listening, speaking, reading, and writing. Emphasis is placed on the development of communicative competency within the school and society.

ESL ENGLISH 2	1 year, 1 credit	Grades 9-12
Prerequisite: None	Weight: 1.05	Requirement of ESL

Listening, speaking, reading, and writing skills are further developed in English for students with a native language other than English. This course continues with emphasis on reading and writing for academic purposes. Language skills include usage, semantics, and vocabulary. Literature and the writing process are introduced as part of the curriculum.

ESL ENGLISH 3	1 year, 1 credit	Grades 9-12
Prerequisite: None	Weight: 1.05	Requirement of ESL

This is an English course for ESL students with a high level of English proficiency. Students have the opportunity to improve their writing, reading and speaking skills. The course covers grammar, vocabulary, and literature. Students are guided through a research project and the writing of a short research paper.

ESL ENGLISH PREPARATION	1 year, 1 credit	Grades 11-12
Prerequisite: None	Weight: 1.05	Requirement of ESL

ESL students will become familiar with all aspects of the New York State Regents Examination in English. Skills required for each competency will be emphasized. Literary analysis, listening, and reading comprehension, and writing development will be the focus of instruction.

ESL ENGLISH SUPPORT	1 year, 0 credit	Grades 9-12
Prerequisite: None		Requirement of ESL

Students who have recently entered mainstream English courses after having been in ESL English receive support to help them succeed in their mainstream English classes.

ESL GLOBAL HISTORY 9/10	1 year, 1 credit for each course	Grades 9-12
Prerequisite: None	Weight: 1.05	Requirement of ESL

This course is designed for the ESL student and will focus on the study of Global History and Geography. Upon the conclusion of the 10th grade course, students will take the Comprehensive Regents Examination in Global History and Geography.

ESL LITERATURE/GRAMMAR	1 year, 1 credit	Grades 9-12
Prerequisite: None	Weight: 1.05	Requirement of ESL

ESL students are introduced to various types of literature and to literary elements and devices. Through the study of literature and grammar, students improve their reading, writing, speaking, and listening skills.

ESL MATH

Prerequisite: None

1 year, 1 credit

Weight: 1.05

Grades 9-12

Requirement of ESL

The course is designed for ESL students who either need basic math instruction before moving on to study algebra and/or need more time to improve their English before they are able to succeed in a mainstream math course.

ESL SOCIAL STUDIES COMPOSITION

Prerequisite: None

1 year, 1 credit

Weight: 1.05

Grades 10-12

Requirement of ESL

The course is designed for students in ESL Global 10 or ESL U.S. History and Government. It is primarily a composition course that prepares students for the essay portions of the Social Studies Regents Exams. Themes common to both curricula are covered. Students present to the class, write essays, and read for information.

ESL STUDY CENTER

Prerequisite: None

1 year, 0 credit

Grades 9-12

Requirement of ESL

This course offers academic support in all content areas.

ESL U.S. HISTORY & GOVERNMENT

Prerequisite: None

1 year, 1 credit

Weight: 1.05

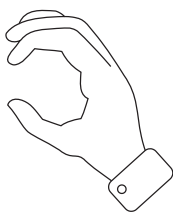
Grades 11-12

Requirement of ESL

This course is designed to introduce ESL students to the government and history of the United States, beginning with an overview of pre-colonial and colonial America, and focusing on the events that led to America's independence from British rule. This course includes the study of the Constitution, the functions of the three branches of government, and changes in the economy from agricultural to industrial to technological. The most important domestic and foreign policies of American presidents and the role of the United States in today's world are included. At the end of this course, all ESL students will take the Regents Examination in United States History and Government, either in English or in a native language.



BONJOUR!
¡HOLA!
BUONGIORNO!



LANGUAGES OTHER THAN ENGLISH (LOTE)

The primary goal of the language curriculum is to foster functional communication in a language other than English. The understanding and appreciation of another culture is an integral part of language study and the basic context for all the courses. The courses outlined here will emphasize the four language skills – listening, speaking, reading, and writing – in order to achieve functional communication. In American Sign Language (ASL), the emphasis will be on receptive and expressive skills.

Language proficiency is measured at the following instructional levels:

Checkpoint A — after the successful completion of two units of study (LOTE 7 and 8) and passing the locally developed Checkpoint A examination in grade 8.

Checkpoint B — after the successful completion of three units of LOTE credits through the locally developed Checkpoint B examination (LOTE 3R and 3H).

Checkpoint C — after the successful completion of five units of LOTE credits through a departmental examination (Level 5 LOTE).

The LOTE program at the high school level is sequential and articulated with the middle school program, which determines grade 9 placement in the high school.

ADVANCED PLACEMENT AND COLLEGE-LEVEL COURSES

ADVANCED PLACEMENT IN SPANISH (LEVEL 4)

Prerequisite: Spanish 3R/3H

1 year, 1 credit

Weight: 1.16

Grades 11-12

Elective

This introductory course is a college-level elective that is a precursor for students who are interested in following an Advanced Placement sequence. This course is structured for serious upper-level students and is conducted entirely in the target language. Coursework is intended to prepare students for either the Level 5 Language Course or for the Advanced Placement Course and Examination in Language, that could be taken the following year.

ADVANCED PLACEMENT IN SPANISH (LEVEL 5)

Prerequisite: Spanish 4H or Advanced Placement in Spanish 4

1 year, 1 credit

Weight: 1.16

Grade 12

Elective

This culminating course is a college-level elective that will prepare students for the rigors of the Advanced Placement Language Examination, which they will be required to take at the end of this course. It refines and expands linguistic skills and builds cultural awareness, stressing formal structures of the language, vocabulary and the four proficiencies of listening, speaking, reading, and writing.

ASL, FRENCH, ITALIAN, AND SPANISH 4H

Prerequisite: ASL, French, Italian, or Spanish 3R/3H

1 year, 1 credit

Weight: 1.16

Grades 11-12

Elective

This level involves the refinement of the linguistic structures of the foreign language with a deeper knowledge of advanced grammar and syntax. Students are introduced to foreign literature with readings of short stories, newspaper and magazine articles and selections from all genres of literature. The ASL course is an advanced-level course that will examine ASL through its cultural contributions. Various aspects of ASL art, poetry, storytelling techniques and conversational strategies will be explored. Students enrolled in any of these courses may earn up to six college credits.

ASL, FRENCH, ITALIAN, OR SPANISH 5H

Prerequisite: ASL, French, Italian, or Spanish 4H

1 year, 1 credit

Weight: 1.16

Grade 12

Elective

This course extends the study of the foreign language. Students will experience more advanced forms of literature and culture and will be required to demonstrate oral and written competence in the foreign language. The ASL course is an advanced-level course that will examine ASL through its cultural contributions. Various aspects of ASL art, poetry, storytelling techniques and conversational strategies will be explored. Students may earn up to six college credits and must meet the criteria of St. John's University: minimum 80 average and 1,000 SAT score, not including the writing portion.

ADDITIONAL ASL, FRENCH, ITALIAN, AND SPANISH COURSES**ASL, FRENCH, ITALIAN, AND SPANISH 1R**

Prerequisite: None

1 year, 1 credit

Weight: 1.05

Grades 9-12

Elective

This level is designed for students who have not met the initial proficiency requirements needed to earn a diploma. The emphasis for this course will be placed on developing the four basic skills of listening, speaking, reading and writing. American Sign Language is an introductory course which will enable the student to communicate through basic vocabulary, body language, and facial expressions. Students will learn the cultural and linguistic differences of the Deaf Community. This course meets the LOTE requirement for graduation.

ASL, FRENCH, ITALIAN, AND SPANISH 2R/2H

Prerequisite: ASL, French, Italian, or Spanish 1R/1H

1 year, 1 credit

Weight: 1.05/1.10

Grades 9-12

Elective

This level is a continuation of the integration and further development of the four basic skills, with emphasis on the use of the language. Multicultural awareness of the foreign language in relation to the rest of the world's cultures is broadened at this level. American Sign Language expands the student's knowledge of ASL grammar, syntax and vocabulary development. Dialogues, short stories and narratives will focus on expansion of comprehension. Topics that are culturally significant to the Deaf Community will be discussed. This course meets the LOTE requirement for graduation.

ASL, FRENCH, ITALIAN, AND SPANISH 3R/3H

Prerequisite: ASL, French, Italian, or Spanish 2R/2H

1 year, 1 credit

Weight: 1.05/1.10

Grades 10-12

Elective

This level continues to stress communicative proficiency. The four basic skills are expanded so that students will be able to comprehend written, spoken and visual presentations in various media. American Sign Language will focus upon receptive and expressive storytelling, advanced grammatical concepts and improved expression. Students will be expected to work individually, in addition to participating in group activities. This course terminates with the locally developed Checkpoint B examination and fulfills the LOTE requirement for a Regents Diploma with Advanced Designation.

SPANISH 4R - CONVERSATION AND CULTURE 1

Prerequisite: Spanish 3R/3H

1 year, 1 credit

Weight: 1.05

Grades 11-12

Elective

This course is designed to reinforce and fine-tune previous grammatical structures and vocabulary that will allow the student to improve proficiency in the language. Students will be exposed to culturally authentic readings that will give them further insight into the variations of cultures in the Spanish-speaking world; this will help students move from the concrete to the abstract levels of proficiency. Topics such as careers, physical well-being and other social issues will be explored throughout this course. Coursework will prepare students for the 5R course the following year.

SPANISH 5R - CONVERSATION AND CULTURE 2

Prerequisite: Spanish 4R - Conversation and Culture 1

1 year, 1 credit

Weight: 1.05

Grade 12

Elective

This sequential course is designed to explore the rich history and culture of the Hispanic heritage. Students will delve into topics such as current events, journalism, immigration, human rights and other real-world-based themes. Assessments will include individual and group projects.



MATHEMATICS

REGENTS MATHEMATICS PROGRAM

Required Math Courses (for accelerated 8th graders and Regents students entering grade 9)

Students entering ninth grade will begin a curriculum required by New York State for a high school Regents diploma with Advanced Designation. Students will take three courses - **Algebra, Geometry, and Algebra II/Trigonometry** - which culminate in Regents exams for each course.

ALGEBRA

Prerequisite: None

1 year, 1 credit

Weight: 1.05

Grades 9-10

Required

This one-year course introduces the student to the fundamentals of algebra with some geometry and trigonometry included. This course and passing the Regents are requirements for graduation in New York State. Topics include solving linear and quadratic equations, graphing linear and quadratic equations, ratio and proportion, basic trigonometry, system of equations, factoring, operations with radicals, algebraic fractions, probability, and statistics. Students will be introduced to the graphing calculator in the course. At the conclusion of the course, students will take the State Regents Examination in Integrated Algebra.

ALGEBRA WITH LAB (WTCHS)

Prerequisite: None

1 year, 1 credit

Weight: 1.05

Grades 9-10

Required

This one-year course introduces the student to the fundamentals of algebra with some geometry and trigonometry included. This course and passing the Regents are requirements for graduation in New York State. Topics include solving linear and quadratic equations, graphing linear and quadratic equations, ratio and proportion, basic trigonometry, system of equations, factoring, operations with radicals, algebraic fractions, probability, and statistics. Students will attend nine periods in a six-day cycle and will be introduced to the graphing calculator in the course. At the conclusion of the course, students will take the State Regents Examination in Integrated Algebra.

ALGEBRA 1 (EMHS)

Prerequisite: None

1 year, 1 credit

Weight: 1.05

Grades 9-10

Required

This is the first of a two-year extended course in algebra. At the conclusion of the second year, students will take the State Regents Examination in Integrated Algebra, which is a requirement for graduation in New York State. Students will be introduced to the graphing calculator in the course.

ALGEBRA 2 (EMHS)

Prerequisite: None

1 year, 1 credit

Weight: 1.05

Grades 9-10

Required

This is the second of a two-year extended course in algebra. At the conclusion of the second year, students will take the State Regents Examination in Integrated Algebra, which is a requirement for graduation in New York State.

GEOMETRY H

Prerequisite: Algebra

1 year, 1 credit

Weight: 1.10

Grades 9-10

Elective

This one-year course is the second year of a three Regents sequence in math needed for the advanced diploma in New York State. It introduces the students to the fundamentals of geometry. This course exceeds the requirements of the New York State core curriculum. It covers additional topics, exploring them more in depth; this is a much more challenging course than Regents Geometry. Topics include logic, geometry proofs, coordinate geometry proofs, transformations, quadrilaterals, locus, and ratio and proportion. Students will take the State Regents Examination in Geometry at the conclusion of the course.

GEOMETRY AND GEOMETRY WITH LAB

Prerequisite: Algebra

1 year, 1 credit

Weight: 1.05

Grades 10-12

Elective

Both of these courses are one-year courses that conclude with the State Regents Examination in Geometry, which is the second of the three Regents needed for the advanced diploma in New York State. The Geometry class meets the traditional five periods per week and the Geometry with Lab class meets nine periods in a six-day cycle. Topics include logic, geometry proofs, coordinate geometry proofs, transformations, quadrilaterals, locus, and ratio and proportion.

ALGEBRA 2/TRIGONOMETRY H

Prerequisite: Algebra and Geometry

1 year, 1 credit

Weight: 1.10

Grades 10-11

Elective

This one-year course continues the three-year sequence for the advanced diploma in New York State. This course exceeds the requirements of the New York State core curriculum. It covers additional topics and explores them more in depth. The course is much more challenging than Regents Trigonometry. Topics include advanced algebra, exponential and logarithmic functions, trigonometry, the complex number system, probability, and statistics. Students will take the State Regents Examination in Algebra 2/Trigonometry at the conclusion of the course.

**ALGEBRA 2/TRIGONOMETRY AND
ALGEBRA 2/TRIGONOMETRY WITH LAB**

Prerequisite: Algebra and Geometry

1 year, 1 credit

Weight: 1.05

Grades 10-12

Elective

Both of these courses are one-year courses that conclude with the State Regents in Algebra 2/Trigonometry, which is the third of the three Regents needed for the advanced diploma in New York State. The Algebra 2/Trigonometry class meets the traditional five periods per week while the Algebra 2/Trigonometry with Lab class meets nine periods in a six-day cycle. Topics include advanced algebra, exponential and logarithmic functions, trigonometry, the complex number system, probability, and statistics. Students will take the State Regents Examination in Algebra 2/Trigonometry at the conclusion of the course.

ADVANCED PLACEMENT AND COLLEGE-LEVEL COURSES**ADVANCED PLACEMENT IN CALCULUS AB**

Prerequisite: Pre-Calculus or Departmental Approval

1 year, 1 credit

Weight: 1.16

Grade 12

Elective

This is a college-level course in calculus and related analytic geometry. The curriculum includes the “rule of four,” where concepts are investigated numerically, verbally, algebraically, and graphically. Students are required to take the College Board Advanced Placement Calculus Examination.

ADVANCED PLACEMENT IN CALCULUS BC

Prerequisite: Pre-Calculus or Departmental Approval

1 year, 1 credit

Weight: 1.16

Grade 12

Elective

This is a college-level course in calculus and analytic geometry. The content will cover two full semesters of college-level work. Students will be required to take the Advanced Placement Examination in Calculus BC and will be given both AB and BC scores.

ADVANCED PLACEMENT IN STATISTICS

Prerequisite: Departmental Approval

1 year, 1 credit (WTCHS)

2 years, 1 credit (EMHS)

Weight: 1.16

Grade 12

Elective

This college-level course will prepare students for the College Board Advanced Placement Examination in Statistics. Statistics is a wide-reaching branch of mathematics that has importance in fields as varied as medicine, psychology, sociology, education, business, sports, and many more. This class will help students prepare for the statistics they will take in college as nearly all majors require some statistics background. It will also help a student understand the statistics that they are confronted with every day in newspapers and on television. Students will learn how to work with data numerically and graphically, and be able to understand the story a set of data is trying to tell.

BASIC CALCULUS (MOLLOY COLLEGE)

Prerequisite: Pre-Calculus R or H

1 year, 1 credit
Weight: 1.16Grade 12
Elective

An intuitive approach to differentiation and integration of algebraic and transcendental functions. This course is designed for the student who is interested in a basic introduction to calculus in preparation for college coursework, which will include calculus of one variable, limits, continuity, differentiation of algebraic functions, applications of differentiation, anti-derivatives, and the definite integral. Upon successful completion of the course, students may earn three college credits from Molloy College.

PRE-CALCULUS H (MOLLOY COLLEGE)

Prerequisite: Algebra 2/Trigonometry

1 year, 1 credit
Weight: 1.16Grades 11-12
Elective

An integrated approach to pre-calculus and calculus. Coursework includes the elements of algebra and analytic geometry necessary to study calculus of one variable, as well as functions, limits, continuity, differentiation of algebraic functions, and applications of differentiation. Upon successful completion of the course, students may earn three college credits from Molloy College.

ADDITIONAL MATHEMATICS COURSES**BUSINESS MATH**Prerequisite/Co-requisite: Algebra and an additional Math
or Departmental Approval1 year, 1 credit
Weight: 1.05Grades 11-12
Elective

This course will prepare students for situations they will encounter when they venture out into the real world. The course is geared toward everyday encounters involving basic skills which can be difficult for some students. This course satisfies one year of the mathematics requirement, beyond successful completion of a Regents math course.

COLLEGE ALGEBRA AND TRIGONOMETRYPrerequisite: Intermediate Algebra 1 (EMHS)/Intermediate
Algebra 2 (WTCHS) or Departmental Approval1 year, 1 credit
Weight: 1.05Grade 11-12
Elective

This course provides an alternative to pre-calculus. Students successfully completing this course will be prepared to succeed in a higher college algebra and/or trigonometry course. The emphasis of this course is to strengthen fundamental algebra and computational skills and further the student's knowledge of both algebra and basic trigonometric concepts in preparation for a freshman course in college algebra.

INTERMEDIATE ALGEBRA 1

Prerequisite: Algebra & Departmental Approval

1 year, 1 credit
Weight: 1.05Grades 11-12
Elective

Students may choose this course to continue their study of mathematics without the rigor of a Regents course. This course provides students with a third year of math, which extends the student's understanding of algebraic equations and graphing functions.

INTERMEDIATE ALGEBRA 2 (WTCHS)

Prerequisite: Intermediate Algebra 1 & Departmental Approval

1 year, 1 credit
Weight: 1.05Grades 11-12
Elective

This course provides students with the fundamental processes of arithmetic and algebra, factoring, linear and fractional equations, exponents, radicals, quadratic equations and right triangle trigonometry. It will also prepare students for college entrance exams.

PRE-CALCULUS R

Prerequisite: Algebra 2/Trigonometry

1 year, 1 credit
Weight: 1.05Grades 11-12
Elective

This course provides a background in those topics that are needed for success in calculus. Topics include graphing techniques, systems of equations, functions, logarithms and trigonometry.

COMPUTER LANGUAGE COURSES AT EAST MEADOW HIGH SCHOOL

ADVANCED PLACEMENT AND COLLEGE-LEVEL COURSES

ADVANCED PLACEMENT COMPUTER SCIENCE A

1 year, 1 credit
Weight: 1.16

Grades 11-12
Elective

Prerequisite: Computer Programming 2 or Departmental Approval

This is a college-level course in computer math using Java. Students are challenged in this course to complete several independent projects. Topics include the design of software systems and data structures. All students are required to take the College Entrance Examination Board Advanced Placement in Computer Science.

ADDITIONAL COMPUTER LANGUAGE COURSES

COMPUTER PROGRAMMING 1

1 year, 1 credit
Weight: 1.05

Grades 9-12
Elective

Prerequisite: Integrated Algebra (May be taken concurrently)

Students will learn to analyze, flowchart, and write programs to solve problems using structured algorithmic techniques in both BASIC and C++.

COMPUTER PROGRAMMING 2

1 year, 1 credit
Weight: 1.05

Grades 10-12
Elective

Prerequisite: Concepts of Computer Programming 1
or Departmental Approval

In this Pre-AP Java course, students explore the concepts of object-oriented programming, hardware and software interaction, and the Java language. The focus of the course is on building, using, and modifying objects, the use of primitive data, logical structures, data structures, and inheritance.





MUSIC

PERFORMING MUSIC ENSEMBLES

Performing music students are afforded a wide array of extracurricular opportunities, including various performing field trips, community service events, and participation in outside musical festivals such as All-County and the New York State School Music Association (NYSSMA) Solo and Ensemble Festival. Students enrolled in Performing Music Ensembles participate in a rotating sectional program in which individual performance skills are enhanced.

CONCERT CHOIR (EMHS)/CHORALE (WTCHS) Prerequisite: Departmental Approval	1 year, 1 credit Weight: 1.05	Grade 10-12 Elective
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This elite performing group emphasizes the finest in choral literature. Works performed include a wide range of styles, from classical to jazz. The Choir performs at school concerts, community events, choral festivals and other appropriate functions.

FRESHMAN BAND (EMHS) Prerequisite: Departmental Approval	1 year, 1 credit Weight: 1.05	Grade 9 Elective
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The Freshman Band is an ensemble consisting of students in grade 9 who will rehearse and perform music of a moderate level of difficulty. This course is designed to prepare students for continued participation in Symphonic Band.

FRESHMAN ORCHESTRA (EMHS) Prerequisite: Departmental Approval	1 year, 1 credit Weight: 1.05	Grade 9 Elective
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The Freshman Orchestra is an ensemble consisting of students in grade 9 who will rehearse and perform music of a moderate level of difficulty. This course is designed to prepare students for continued participation in Symphonic Orchestra.

MIXED CHORUS Prerequisite: Departmental Approval	1 year, 1 credit Weight: 1.05	Grades 9-12 Elective
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This performing group is an introduction to four-part choral singing, with emphasis on the fundamentals of proper vocal technique realized through a wide variety of musical styles.

SYMPHONIC BAND Prerequisite: Departmental Approval	1 year, 1 credit Weight: 1.05	Grades 9-12 Elective
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This is a performing organization that emphasizes the finest music literature for wind and percussion ensemble. Members of this group participate in marching band, regular school concerts, community service events and other appropriate musical performances. Through an audition process, band members are also eligible for membership in Jazz Ensemble and other performing ensembles. Performances at home football games and scheduled parades are course requirements.

SYMPHONIC ORCHESTRA
Prerequisite: Departmental Approval

1 year, 1 credit
Weight: 1.05

Grades 9-12
Elective

This performing group explores orchestral literature from every time period in musical history from Vivaldi and Mozart to Andrew Lloyd Webber and John Williams. The Symphony Orchestra affords select band members the opportunity to perform with this organization. Students from the orchestra are also eligible to perform with various school chamber ensembles at school functions.

MUSIC THEORY

MUSIC THEORY 1 (EMHS)
Prerequisite: Departmental Approval

1 year, 1 credit
Weight: 1.05

Grades 9-12
Elective

This course has been designed to develop a student's skills in music fundamentals, music notation, melodic dictation, music history, harmony, composition, and rhythmic dictation, using the new computer music lab. This course will also serve as an introduction to basic keyboard and computer skills for the musician.

MUSIC THEORY 2
Prerequisite: Music Theory 1 or Intro to Music Technology and Theory

1 year, 1 credit
Weight: 1.05

Grades 10-12
Elective

This course has been designed to further develop a student's Theory I skills in music fundamentals, music notation, melodic dictation, music history, harmony, composition and rhythmic dictation, using the new computer music lab. In addition, this class must be used as a component of the five-year sequence when combined with Theory I.

MUSIC THEORY 3 AND ADVANCED COMPOSITION
(Using Music Computer Technology)
Prerequisite: Music Theory 1 and 2 and Departmental Approval

1 year, 1 credit
Weight: 1.05

Grades 11-12
Elective

Students will study music composition, structure and style components. In addition, this course will cover the use and integration of melodic, harmonic, textural, rhythmic, historical and stylistic aspects of music. The ultimate goal is to prepare students to recognize, understand and accurately describe the basic components heard or presented in a musical score using the new computer music lab. Computers, keyboards, and MIDI will be used as tools for these compositions, as well as live performance and recording. Students will be provided the opportunity to take the Advanced Placement Music Theory Exam.

MUSIC ELECTIVES

CHAMBER MUSIC
Prerequisite: Departmental Approval & student must
be a current member of the Band, Orchestra, or Choral Program

1 year, 1 credit
Weight: 1.05

Grades 9-12
Elective

Students will have the opportunity to explore the chamber music repertoire through coaching and performance. Due to the extensive amount of material available and chamber music grouping alternatives, this course may be taken several times throughout the high school period.

CREATIVE EXPERIENCE (EMHS)
Prerequisite: None

1 year, 1 credit
Weight: 1.05

Grade 12
Elective

The Creative Experience is a one-year course of study that responds to the national direction for arts education. It serves to include and integrate the four arts disciplines – visual arts, music, drama, and theater. This course will offer a hands-on experience, providing students with an opportunity to recognize and appreciate the connections that exist among the four arts disciplines.

NOTE: The District Art/Music requirement calls for all students to take a minimum of two credits of Art or Music, or 1 credit each of Art and Music. One unit of the Creative Experience may be used to satisfy this requirement in lieu of two units of Art and/or Music. Students may also use one unit of Introduction to Theater Arts, with participation in all associated Drama/Musical events, to satisfy one of the Art/Music units.

INTRO TO MUSIC TECHNOLOGY AND THEORY (WTCHS)	1 year, 1 credit	Grades 10-12
Prerequisite: Departmental Approval	NEW COURSE	Elective
	Weight: 1.05	

This course is an introduction to the fundamentals of music technology and music theory. Students will become familiar with notation software such as Finale and Sibelius and sound production applications such as iMovie, iDVD, Garage Band and Logic. The class will compose, record, analyze, and arrange musical pieces. Students will also learn basic song construction and piano skills to aid in writing and recording music. In addition, students will participate in school events that require audio and video recording. This course will serve as a prerequisite for Music Theory 2 and/or Music Production and Recording 2.

JAZZ COMBO & IMPROVISATION (EMHS)	1 year, 1 credit	Grades 9-12
Prerequisite: Departmental Approval & student must be a current member of the Band, Orchestra, or Choral Program	Weight: 1.05	Elective

Students will learn the elements of jazz, including history, style, techniques, improvisation, writing and performance. The use of computer technology will be applied to the aforementioned topics, where appropriate.

MUSIC PRODUCTION AND RECORDING 1 (EMHS)	1 year, 1 credit	Grades 10-12
Prerequisite: Music Theory 1 or Departmental Approval	Weight 1.05	Elective

This course is designed to introduce the student to the fundamental techniques of recording audio, MIDI technology, and studio design. The Apple Computer Lab and Recording Studio will incorporate the iLife suite of multimedia-based applications such as Garage Band, iMovie, iPhoto, iLife, iTunes, iDVD, and iWeb. Basic Music Theory, song writing and arranging will be introduced to facilitate working with recorded media. Students will also participate in school events that take place that require audio/video recording. In this one-year course, students are offered the opportunity to take the Apple Level 1 certification test and obtain that certificate for Logic Pro at East Meadow High School.

MUSIC PRODUCTION AND RECORDING 2	1 year, 1 credit	Grades 11-12
Prerequisite: Music Production and Recording 1 or Intro to Music Technology and Theory	Weight 1.05	Elective

This is a sequential course that will build upon prior knowledge and experience from the first course. Programs such as Logic Express, Reason and Final Cut Express will be used as the primary lab applications. Students will learn how to record with professional programs such as Pro Tools and Digital Performer; they will integrate their work with video programs such as Final Cut Pro. Students will also participate in school events that take place that require audio/video recording. In this one-year course, students are offered the opportunity to take the Apple Level 2 certification test and obtain that certificate for Logic Pro at East Meadow High School.

MUSIC PRODUCTION AND RECORDING 3	1 year, 1 credit	Grades 11-12
Prerequisite: Music Production and Recording 2	Weight 1.05	Elective

This level-three course will further advance the student's knowledge in multimedia production with programs such as Pro Tools, Logic Pro, Final Cut Pro, Soundtrack Pro and Adobe Creative Suite. Students will learn to master the audio console and related audio and video techniques that are recording in the auditorium. Students will also participate in school events that take place that require audio/video recording.

PHYSICAL EDUCATION/HEALTH



REQUIRED PHYSICAL EDUCATION/HEALTH COURSES

HEALTH EDUCATION

Prerequisite: None

1 semester, 1/2 credit
Weight: 1.05

Grades 10-12
Required

Health Education is the study of the five components of health. This course is designed to allow the students to demonstrate the capacity to develop their physical, emotional, and intellectual potential through the process of self-assessment, goal setting and lifelong independent learning. This course is required for graduation.

PHYSICAL EDUCATION

Prerequisite: None

1/4 credit each semester
Weight: 1.05

Grades 9-12
Required

Physical Education is a required subject in grades 9-12, meeting three times during a 6-day cycle for a full year. Class participation in every class is required of each student. In order to participate, students must be dressed in appropriate attire for health and safety reasons. The program is designed to develop and improve current levels of physical fitness and to stimulate students to maintain their personal fitness in wholesome forms of physical activity for lifetime benefits.

Physical Education is a sequential educational program based on physical activities undertaken in an active and supportive learning environment. Every student is challenged, however, they are provided with a learning environment that may be modified when necessary to allow for maximum participation. The interdisciplinary nature of physical education provides opportunities for all students to achieve knowledge, skills, and values that will develop and enhance the quality of their lives.

For students whose physical ability is restricted, an Adaptive Physical Education Class is available. Any student unable to participate in Physical Education due to a temporary medical condition will be given written coursework to satisfy their Physical Education requirements.

ADDITIONAL PHYSICAL EDUCATION/HEALTH COURSES

ADVANCED FITNESS TRAINING (EMHS)

Prerequisite: None

1 year, 1/2 credit
Weight: 1.05

Grades 11-12
Elective

This course is designed to develop the knowledge and competencies necessary to achieve optimum physical fitness. Students will assess personal fitness levels and develop individualized programs to achieve improvement. Areas of emphasis will include resistance training, plyometrics, speed training and nutrition.

INTRODUCTION TO ATHLETIC TRAINING (WTCHS)

Prerequisite: Health

1 semester, 1/2 credit
Weight: 1.05

Grades 11-12
Elective

This course focuses on athletic training and many other related careers. Students participate in a hands-on approach and are given a behind-the-scenes look at the various professions. After being introduced to the different opportunities available, many of the students have chosen careers along these paths. They will learn American Red Cross Standard First Aid and Adult CPR for the professional rescuer.

INTRODUCTION TO EXERCISE PHYSIOLOGY (WTCHS)

Prerequisite: Health

1 semester, 1/2 credit
Weight: 1.05

Grades 11-12
Elective

Exercise physiology is a discipline involving the study of how exercise alters the structure and function of the human body. Topics studied in this course include human energy transfer and expenditure, evaluation of energy-generating capacities, and the effects of exercise on the body, as well as training methods. This course is highly suited for students interested in careers in physical education, personal training, and physical rehabilitation and therapy.

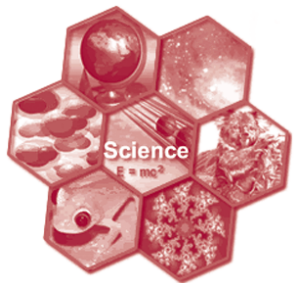
SENIOR HEALTH AND CONTEMPORARY ISSUES (EMHS)

Prerequisite: Health Education

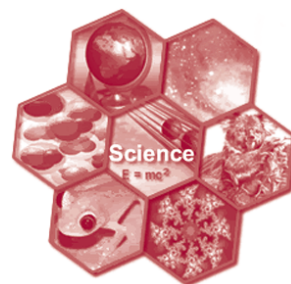
1 year 1/2 credit
Weight: 1.05

Grade 12
Elective

Students in this course will explore current societal issues in health, as well as various health-related situations and concerns that they might encounter following high school.



SCIENCE



BIOLOGY COURSES

ADVANCED PLACEMENT AND COLLEGE-LEVEL COURSES

ADVANCED PLACEMENT BIOLOGY

1 year, 1 credit

Grades 10-12

Prerequisite: 3 years of Mathematics and 1 year

Weight: 1.16

Elective

of Living Environment and Chemistry, or Departmental Approval

Labs: Included in 10-period-per-week course.

This course is designed to be the equivalent of a college introductory biology course. The goal of this course is to provide students with the conceptual framework, factual knowledge, and analytical skills necessary to understand the rapidly changing field of biology. The course will examine the molecular and cellular levels of life by examining cellular structure, metabolism, molecular genetics, division, and control mechanisms. Students will also study life on the level of the organism and the ecosystem. Plant and animal systems are examined as their role in evolution and interactions with their environment are explored.

ADDITIONAL BIOLOGY COURSES

LIVING ENVIRONMENT: HONORS BIOLOGY

1 year, 1 credit

Grades 9-10

Prerequisite: Departmental Approval

Weight: 1.13

Required

Labs: Included in 7.5-period-per-week course

This course is based on all areas of the New York State Living Environment Core Curriculum. In addition, students consider topics included in the College Board Achievement Examination in Biology. Students are required to take the New York State Regents Examination and are encouraged to take the College Board SAT II Examination in Biology.

LIVING ENVIRONMENT: REGENTS BIOLOGY

1 year, 1 credit

Grades 9-12

Prerequisite: None

Weight: 1.08

Required

Labs: Included in 7.5-period-per-week course

This course is based on the New York State Living Environment Core Curriculum. Teachers provide instruction in all required areas and selected optional areas of the program. Students are required to take the New York State Regents Examination.

CHEMISTRY COURSES

ADVANCED PLACEMENT AND COLLEGE-LEVEL COURSES

ADVANCED PLACEMENT CHEMISTRY

Prerequisite: 3 years of Mathematics
and 1 year of Chemistry, or Departmental Approval

Labs: Included in 10-period-per-week course

1 year, 1 credit
Weight: 1.16

Grades 10-12
Elective

The AP Chemistry course is designed to be the equivalent of the general chemistry course usually taken during the first college year. Students in such a course will attain a depth of understanding of fundamentals and a reasonable competence in dealing with chemical problems. The course will contribute to the development of the students' abilities to think clearly and to express their ideas, orally and in writing, with clarity and logic. Topics such as the structure of matter, kinetic theory of gases, chemical equilibrium, chemical kinetics, and the basic concepts of thermodynamics will be presented in considerable depth.

ADDITIONAL CHEMISTRY COURSES

PHYSICAL SETTING: HONORS CHEMISTRY

Prerequisite: Departmental Approval
Labs: Included in 7.5-period-per-week course

1 year, 1 credit
Weight: 1.13

Grades 10-12
Elective

This course is based on areas of the New York State Chemistry Core Curriculum. In addition, students consider topics included in the College Board SAT II Examination in Chemistry. Students are required to take the New York State Regents.

PHYSICAL SETTING: REGENTS CHEMISTRY

Prerequisite: Minimum 75 on Algebra & Geometry Regents
Labs: Included in 7.5-period-per-week course

1 year, 1 credit
Weight: 1.08

Grades 10-12
Elective

This course is based on the New York State Chemistry Core Curriculum. Teachers provide instruction in all required areas and selected optional areas of the program. Students are required to take the New York State Regents Examination.

EARTH SCIENCE COURSES

ADVANCED PLACEMENT AND COLLEGE-LEVEL COURSES

ADVANCED PLACEMENT IN ENVIRONMENTAL SCIENCE

Prerequisite: 3 years of Regents Science, including
Earth Science and 3 years of Regents Math or
Departmental Approval

Labs: Included in 7.5-period-per-week course

1 year, 1 credit
Weight: 1.16

Grade 12
Elective

This course will provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world. Students will identify and analyze environmental problems, both natural and man-made, and will examine alternative solutions for resolving and/or preventing them.

EARTH SCIENCE - SCALE

Prerequisite: Acceptance to SCALE Program, course average of
85 or greater in Earth Science, and Departmental Approval

Labs: Included in 5-period-per-week course

1 year, 1 credit
Weight: 1.16

Grades 11-12
Elective

This college-level course is an introduction to physical geography, the earth and its relationship to the sun, map projections, and meteorology and world climates. It includes a consideration of the biogeographical features, including world soils and vegetations. The course considers basic principles of geomorphology (the study of landforms), and the use of topographic maps and air photographs in landform interpretation. Minerals, rocks, and geological structures are studied as factors in the evolution of surface topography. Upon successful completion of the course, students may earn up to eight college credits from C.W. Post as part of its SCALE offerings.

ADDITIONAL EARTH SCIENCE COURSES

PHYSICAL SETTING: REGENTS EARTH SCIENCE

Prerequisite: None

Labs: Included in 7.5-period-per-week course

1 year, 1 credit

Weight: 1.08

Grades 9-12

Required

This course is based on the New York State Earth Science Core Curriculum. Students are required to take the New York State Regents Examination.

PHYSICS COURSES

ADVANCED PLACEMENT AND COLLEGE-LEVEL COURSES

ADVANCED PLACEMENT PHYSICS

Prerequisite: 3 years of mathematics and 3 years of Regents science, or Departmental Approval

Labs: Included within a 10-period-per-week course

1 year, 1 credit

Weight: 1.16

Grades 11-12

Elective

The AP Physics course is designed to be the equivalent of an introductory college course. The Physics B course includes topics in both classical and modern physics. The Physics C courses include topics in mechanics, electricity, and magnetism. The major goal of this course is to get students to understand the basic principles of physics and to apply these principles in the solution of problems. The course will utilize guided inquiry and student-centered learning to foster the development of critical thinking skills. Topics included in this course are: Newtonian mechanics, fluid mechanics and thermal physics, electricity and magnetism, waves and optics, and atomic and nuclear physics. The course also includes a hands-on laboratory component comparable to an introductory college-level physics laboratory. Students are expected to take the Regents examination at the end of this course.

ADDITIONAL PHYSICS COURSES

PHYSICAL SETTING: HONORS PHYSICS (EMHS)

Prerequisite: Departmental Approval

Labs: Included in 7.5-period-per-week course

1 year, 1 credit

Weight: 1.13

Grades 10-12

Elective

This course is based on all areas of the New York State Physics Core Curriculum. In addition, students consider topics included in the College Board SAT II Examination in Physics. Students are required to take the New York State Regents Examination and are encouraged to take the College Board SAT II Examination in Physics.

PHYSICAL SETTING: REGENTS PHYSICS

Prerequisite: Successful completion of Algebra and Geometry or Departmental Approval

Labs: Included in 7.5-period-per-week course

1 year, 1 credit

Weight: 1.08

Grades 11-12

Elective

This course is based on the New York State Physics Core Curriculum. Students are required to take the New York State Regents Examination.



SCIENCE ELECTIVES

ADVANCED PLACEMENT AND COLLEGE-LEVEL COURSES

FORENSIC TECHNOLOGY AND CRIMINAL LAW - SCALE (WTCHS)	1 year, 1 credit Weight: 1.16	Grades 11-12 Elective
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Prerequisite: Living Environment and Acceptance to SCALE Program

This course analyzes forensic technological techniques used in the identification and apprehension of criminals, consisting of an in-depth evaluation of physical evidence including identification of fingerprints, hair and fiber samples, DNA evidence, and serology. Additionally, it will examine the application of criminal law in the American judicial system. Preservation and protection of life and property through the law are discussed. This course is offered in conjunction with C.W. Post College as part of the SCALE offerings. Students may earn six college credits upon successful completion of this course.

MARINE BIOLOGY - SCALE (EMHS)	1 year, 1 credit Weight: 1.16	Grades 11-12 Elective
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Prerequisite: Acceptance to SCALE program and a course average of 85 or better in the Living Environment

This course introduces life in marine waters. Topics include physical and biological properties of marine waters, identification and characteristics of major groups of marine plants and animals, adaptive modifications to marine environments and the special nature and diversity of marine ecosystems. Students may earn three college credits upon successful completion of this course as part of the offerings through C.W. Post College.

FORENSIC SCIENCE (EMHS)	1 year, 1 credit Weight: 1.16	Grades 11-12 Elective
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Prerequisite: Completion of Chemistry Regents course and 2 other Regents-level science courses

This course is intended to provide an introduction to understanding the science behind crime scene detection. Scientific methods specifically relevant to crime detections and analysis will be presented with emphasis based upon the techniques used in evaluating physical evidence. Laboratory exercises will include techniques commonly employed in forensic investigations. Students enrolled in this course may earn college credits through Syracuse University.

ADDITIONAL SCIENCE ELECTIVE COURSES

APPLIED CHEMISTRY	1 year, 1 credit Weight: 1.05	Grades 11-12 Elective
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Prerequisite: Completion of 2 Regents-level science courses

This course provides students with instruction that is directly related to daily living. Topics include: scientific measurement, composition and properties of matter, structure of atoms and molecules, acids, bases, salts, gases in the atmosphere, the chemistry of water, household chemicals and the chemistry of food. This class meets for one period every day. Any lab activity is completed during that one period.

APPLIED PHYSICS (EMHS)	1 year, 1 credit Weight: 1.05	Grades 11-12 Elective
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Prerequisite: Completion of 2 Regents-level science courses

This course provides students with instruction that is directly related to daily living. Topics include: scientific measurement, kinematics, forces, energy and momentum, electricity and magnetism, basic circuitry, waves and lenses. This class meets for one period every day. Any lab activity is completed during that one period.

ASTRONOMY	1 semester, 1/2 credit Weight: 1.05	Grades 11-12 Elective
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Prerequisite: Completion of 2 Regents-level science courses

This course serves as an introduction to astronomy and will include the motions of the stars and planets across the night sky, the motion of our sun, as well as other objects associated with the "heavens." Additional topics will include stars and their "life cycles," as well as theories relating to the formation of the universe.

CRIMINOLOGY AND FORENSIC SCIENCE (EMHS)	1 year, 1 credit Weight: 1.05	Grades 11-12 Elective
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Prerequisite: Completion of 2 Regents-level science courses

This is an interdisciplinary course that provides students with the legal and scientific aspects of civil and criminal law. Teachers will team the instruction so that students can study the technical and social aspects of the law. As a result, it will combine science and social studies, and instruct students about rights and protections under the criminal justice system.

DESTRUCTIVE FORCES OF NATURE

Prerequisite: Completion of 2 Regents-level science courses

1 semester, 1/2 credit
Weight: 1.05Grades 11-12
Elective

This course studies various forces of nature such as hurricanes, tornadoes, earthquakes, volcanoes, tsunami, floods, blizzards, drought, avalanche, types of precipitation and coastal erosion. The impact of these forces will be discussed as related to changes in the Earth's physical conditions.

GENETICS (WTCHS)Prerequisite: Living Environment plus one other
Regents-level science course1 semester, 1/2 credit
Weight: 1.05Grades 11-12
Elective

Labs: Included in the daily lesson

This course investigates the mechanisms of human inheritance. Students will examine the basic concepts of DNA, along with normal and abnormal gene function. The past discoveries of Gregor Mendel, James Watson and Francis Crick will be studied. Students will investigate current topics in genetics such as stem cell research, gene therapy and cancer research.

HORTICULTURE (EMHS)Prerequisite: Living Environment plus one other
Regents-level science course1 semester, 1/2 credit
Weight: 1.05Grades 11-12
Elective

This course is designed to introduce students to the field of horticulture, which is the study of growing garden plants. This course is not your typical classroom experience. Students use practical experience related to the culture of plants, during which students will use the school greenhouse daily to put classroom lectures into hands-on practice. In addition, this course emphasizes knowledge and understanding of the importance of establishing, maintaining and managing a horticulture business (florist, nursery, landscaping, etc.).

HUMAN PHYSIOLOGYPrerequisite: Living Environment
Labs: Included in the daily lesson1 year, 1 credit (EMHS)
1 semester, 1/2 credit (WTCHS)
Weight: 1.05Grades 11-12
Grades 11-12
Elective

Human Physiology is a course of study for students who are interested in understanding human anatomy and functions. It is recommended for all students who have taken Living Environment.

METEOROLOGYPrerequisite: Earth Science, Living Environment,
or Integrated Algebra1 semester, 1/2 credit
Weight: 1.05Grades 11-12
Elective

This course will provide an in-depth study of the weather, including atmospheric properties and the processes that control temperature, wind, precipitation and storm systems. Topics will include weather forecasting, climate change, and air pollution.

NUTRITION AND WELLNESS

Prerequisite: Living Environment

1 semester, 1/2 credit
Weight: 1.05Grades 11-12
Elective

This course will investigate how good nutrition interacts with our bodies and contributes to our overall wellness. The following topics will be explored: physiology of the digestive system, diagnosing nutritional deficiencies, the nutritional analysis of food, and hunger awareness.

OCEANOGRAPHY/MARINE BIOLOGY (EMHS)Prerequisite: Living Environment
Labs: Included in the daily lesson1 year, 1 credit
Weight: 1.05Grades 11-12
Elective

Oceanography considers the biological, chemical, physical, and geological aspects of the oceans. Lab investigations, field trips, the operation of saltwater tanks, and the opportunity to work and learn on a research vessel are included. The course teaches about the various forces that form the oceans and influence their present condition. Students learn about coral reefs, ocean topography, waves, tsunamis, tides, currents, and barrier beaches. Students gain special consideration of Long Island and how it interacts with the Atlantic Ocean.

ADVANCED RESEARCH PROGRAM

The science research program is an in-depth program that prepares students to propose, conduct and present research projects for competition.

There are a series of elective courses in which students choose a topic and carry out an original research project on that topic. The student does ALL that professional researchers do: journal reading, finding a mentor, planning a project and carrying it out to an appropriate research conclusion. As the work progresses, the student writes research papers, creates posters, and presents research findings at competitions and symposia as determined by the instructor. Students may take the course for college credit for a total of up to **12 credits with the State University of New York at Albany** when they are in the 11th or 12th grade.

The only prerequisite is that the candidate be self-motivated and hardworking.

RESEARCH 1	1 year, 1 credit	Grade 9
Prerequisite: None	Weight: 1.13	Elective

Students entering 9th grade will be able to explore a particular interest as this is a student-centered course. This program will guide them through the process of reading scientific journal articles, developing hypotheses, collecting and analyzing data and eventually presenting their research findings. Students will present their findings to their class, to the school district, and also when competing in science competitions.

RESEARCH 2	1 year, 1 credit	Grade 10
Prerequisite: Research 1 or Departmental Approval	Weight: 1.16	Elective
Co-Requisite: Statistics in Research		

This course enables students to practice original scientific research in an independent manner. Motivation, enthusiasm and dedication are essential for success in pursuing an in-depth research project. This course will allow students the opportunity to participate in the community of science research and scholarship as part of their high school experience. Students are encouraged to work in conjunction with research scientists and professionals within their field of research such as the life sciences, physical sciences, psychology and the social sciences. All students are expected to enter their research projects in local, regional, national, and/or international scientific competitions. Students will use the same professional methods employed by scientists, developing poster and oral presentations accompanied by slides or PowerPoint graphics. This program is an elective course taken in addition to the traditional sciences (Earth Science, Living Environment, Chemistry, and Physics). All students will present their research projects at their high school science symposium prior to the end of the school year (April/May).

RESEARCH 3

Prerequisite: Research 2

Co-Requisite: Statistics in Research (if not fulfilled in Research 2)

1 year, 1 credit

Weight 1.16

Grades 11-12

Elective

This course will enable the students to continue working on their original scientific research from Research 2. At this point, they may be working with a research scientist in their field of study. All students are expected to enter their research projects in local, regional, national and/or international scientific competitions. Students will use the same professional methods employed by scientists, developing poster and oral presentations accompanied by slides or PowerPoint graphics. This program is an elective course taken in addition to the traditional sciences (Earth Science, Living Environment, Chemistry, and Physics). All students will present their research projects at their high school symposium prior to the end of the school year (April/May).

Students will be expected to enter in national competitions such as Siemens and ISEF Competitions. By the end of Research 3, students must have a lab placement with a department-approved mentor. Students not placed in a lab by the end of Research 3 must receive departmental approval in order to continue in the program.

RESEARCH 4

Prerequisite: Research 3 and Department-Approved Mentor

1 year, 1 credit

Weight 1.16

Grades 11-12

Elective

Students will complete original research in a lab with a qualified mentor or in school with departmental approval. They will enter in competitions such as Siemens Competition, INTEL-Science Talent Search, Long Island Science & Engineering Fair, Junior Science & Humanities Symposium, and many more.

STATISTICS IN RESEARCH

Prerequisite: Must be enrolled in Science Research 2 or 3

1 year, 1/2 credit

Weight 1.13

Grades 10-12

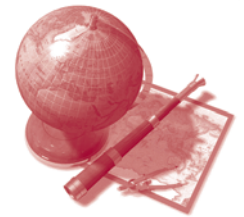
Elective

The purpose of this course is to introduce students to major concepts and tools for collecting, analyzing, and drawing conclusions from data. This course acts as an enhancement to the research course program and will meet on the opposite day.





SOCIAL STUDIES



REQUIRED SOCIAL STUDIES COURSES

GLOBAL HISTORY AND GEOGRAPHY 9

Prerequisite: None

1 year, 1 credit

Weight: Dependent upon Level

Grades 9-12

Required

The syllabus for grade 9 provides for the opportunity to begin the study of significant eras in Global History. Various areas of the world will be studied in chronological context. Students will learn the development of cultures, societies, religions, values, economics, and political systems from their origins in ancient and classic civilizations to the middle of the 18th Century. This course will begin with a study of geography and its influences in history.

GLOBAL HISTORY AND GEOGRAPHY 10

Prerequisite: Global History and Geography 9

1 year, 1 credit

Weight: Dependent upon Level

Grades 10-12

Required

The syllabus for grade 10 continues the study of significant Global History eras which began in grade 9. Using a chronological and thematic approach, the scope of history from the mid-18th century through modern times is developed. This course will terminate with the two-year Comprehensive Regents Examination in Global History and Geography.

UNITED STATES HISTORY & GOVERNMENT

Prerequisite: Global History and Geography 10

1 year, 1 credit

Weight: Dependent upon Level

Grades 11-12

Required

This one-year course is designed to provide students with a culminating survey of major forces of United States history. Major components of this course include constitutional issues, industrial and technological development within the United States, and our country's increasing involvement in international and global concerns. This course will terminate with the Regents Examination in United States History and Government.

ECONOMICS

Prerequisite: U.S. History and Government

1 semester, 1/2 credit

Weight: 1.05

Grade 12

Required

This course is designed to help the student understand the economic challenge of an ever-changing world. Basic units in the course include: Introduction to Economics and Economic Systems, Elements of the Economy, Bringing Economic Systems Together, and the United States and the World Economy.

PARTICIPATION IN GOVERNMENT

Prerequisite: U.S. History and Government

1 semester, 1/2 credit

Weight: 1.05

Grade 12

Required

This course emphasizes the interaction between citizens and government at the local, state, and federal levels. The development of student participation in the processes of government is included in this course.

ADVANCED PLACEMENT AND COLLEGE-LEVEL COURSES

ADVANCED PLACEMENT

COMPARATIVE POLITICS (EMHS)

Prerequisite: U.S. History and Government and Departmental Approval

1 year, 1 or 2 credit option

Weight: 1.16

Grade 12

Elective

This course involves the study of the general concepts needed to interpret the politics of Great Britain, Russia, China, Iran, Nigeria, and Mexico. Students may take the American Government and Politics, as well as the Comparative Politics exam. This course satisfies the economics and government requirement for graduation.

ADVANCED PLACEMENT EUROPEAN HISTORY

Prerequisite: Departmental Approval

1 year, 1 credit

Weight: 1.16

EMHS Grade 10

WTCHS Grade 12

Elective

This course is a survey of political, economic, social, and cultural developments in European history from 1450 to the present. Students will develop an understanding of major themes in European history and culture, an ability to analyze historical information, and an ability to write various kinds of historical essays. Grade 10 students will be required to take the New York State Regents Examination in Global History and Geography.

ADVANCED PLACEMENT PSYCHOLOGY (EMHS)

Prerequisite: Departmental Approval

1 year, 1 credit

Weight: 1.16

Grades 11-12

Elective

This course is an introductory college-level course in psychology. The following areas of study will be discussed: methods, approaches, history of psychology, biological bases of behavior, sensation and perception, states of consciousness, learning, cognition, motivation and emotion, developmental psychology, personality, testing, individual differences, abnormal psychology, and psychological disorders. Students will be required to take the Advanced Placement Examination in Psychology.

**ADVANCED PLACEMENT U.S. GOVERNMENT
AND POLITICS**

Prerequisite: U.S. History and Government and Departmental Approval

1 year, 1 credit

Weight: 1.16

Grade 12

Elective

This course involves the study of general concepts needed to interpret United States politics. Students will study the various groups that comprise our political systems and institutions, and policies of our federal government. This course satisfies the economic and government requirements for graduation.

ADVANCED PLACEMENT U.S. HISTORYPrerequisite: Global History and Geography 10, and
Departmental Approval

1 year, 1 credit

Weight 1.16

Grade 11

Elective

Note: This course can be taken in lieu of the required U.S. History & Government course

This course is a one-year survey of the social, economic, and political developments of the United States from the colonial period to the present. Emphasis is on the various interpretations of major historical themes and problems in our history. Students will be required to take the New York State Regents Examination in U.S. History.

ADVANCED PLACEMENT WORLD HISTORY (WTCHS)

Prerequisite: Global History and Geography 9H

1 year, 1 credit

Weight 1.16

Grade 10

Elective

Note: This course can be taken in lieu of the required Global History and Geography 10 course

This course is the culmination of a two-year study of world history. Beginning with the Foundations Period (8000 BCE) and proceeding to present-day history, this course offers students a balanced global history of Africa, Asia, Europe, and the Americas. Emphasis will be placed on comparing and contrasting societies, and studying their global interaction and how these societies have changed over time. Following completion of the ninth and tenth-grade curricula, students will be required to take the New York State Regents Examination in Global History and Geography.

**INTRODUCTION TO CONTEMPORARY BUSINESS
AND ECONOMICS/GOVERNMENT - SCALE**

Prerequisite: Acceptance to SCALE Program

1 year, 1-2 credits

Weight: 1.16

Grade 12

Elective

Note: This course can be taken in lieu of the required Participation in Government and Economics courses.

This course examines the role of business in American society, the interrelated activities through which business provides the goods and services essential to contemporary society, and the interrelationship of business and government, labor, and society at large. General areas of study: foundations of business, management of the enterprise, marketing, finance, financial services, contemporary problems, and developments. Upon successful completion of this course, students may be able to earn three college credits from C.W. Post College.

THE CIVIL WAR: AMERICA'S TURNING POINT - <u>SCALE</u> (EMHS)	1 year, 1 credit	Grades 11-12
Prerequisite: Global History and Geography 9 and 10 and Acceptance to SCALE Program	Weight: 1.16	Elective

This course will examine the causes of the Civil War, as well as its impact on American history. The focus of this course will include such topics as Civil War battles, military strategies, and the social, political, and cultural changes that resulted from the war.

U.S. HISTORY - <u>SCALE</u>	1 year, 1 credit	Grade 11
Prerequisite: Global History and Geography 10, Departmental Approval, and Acceptance to SCALE Program	Weight: 1.16	Elective

Note: This course can be taken in lieu of the required U.S. History & Government course

The focus of this course will be the major developments in American history from the colonial period to the present. This course is offered in conjunction with C.W. Post College as part of the SCALE offerings. Students may earn six college credits upon successful completion of this course. This course culminates with the Regents Examination in United States History and Government.

LAW PROGRAM COURSES

BUSINESS LAW - <u>SCALE</u> (EMHS)	1 year, 1 credit	Grades 11-12
Prerequisite: Acceptance to SCALE Program	Weight: 1.16	Elective

Students will study criminal and civil issues with an emphasis on business law. This course explores how law affects everyday life. Topics covered include origins of our courts and laws, how ethics affect our law, torts, contracts, consumer, property, marriage, international, agency and employment law. Students will learn how business law affects individuals and business organizations. Upon successful completion of the course, students may earn three college credits from C.W. Post College.

INTRODUCTION TO LAW	1 year, 1 credit	Grades 9-10
Prerequisite: None	Weight: 1.05	Elective

This course will include the following major components: 1) Writing for the Law, which will include information gathering, research, legal briefs, petitions, and critical writing; 2) Speaking for the Law will include presentations, critical discussions, introduction to oral arguments and extemporaneous speaking; 3) Legal Multimedia presentations will focus on the integration of multimedia and relevant technology to develop presentations related to contemporary issues; 4) The Legal Speakers Bureau will incorporate various professionals into the classroom experience. These professionals will include attorneys, police officers, legal secretaries, judges, probation officers, corrections officers, social workers, legal consultants, forensic scientists, and others, in an effort to introduce careers related to law.

FORENSIC TECHNOLOGY AND CRIMINAL LAW - <u>SCALE</u> (WTCHS)	1 year, 1 credit	Grades 11-12
Prerequisite: Living Environment and Acceptance to SCALE Program	Weight: 1.16	Elective

This course analyzes forensic technological techniques used in the identification and apprehension of criminals, consisting of an in-depth evaluation of physical evidence including identification of fingerprints, hair and fiber samples, DNA evidence, and serology. Additionally, it will examine the application of criminal law in the American judicial system. Preservation and protection of life and property through the law are discussed. This course is offered in conjunction with C.W. Post College as part of the SCALE offerings. Students may earn six college credits upon successful completion of this course.

FOUNDATIONS OF LAW (WTCHS)

Prerequisite: Introduction to Law

1 year, 1 credit
Weight: 1.05Grades 9-10
Elective

This course is designed to allow students to investigate the foundations of our legal system. Throughout the year, students will research and perform trial simulations that set precedents for our legal and court procedures. It will also provide a technical introduction and training for trial preparation. Opening arguments, direct and cross examinations, and closing arguments will be explored. Students will be engaged in various multimedia presentations and oral presentations designed to assess their comprehension of the course content.

LEGAL ENVIRONMENT OF BUSINESS - SCALE (WTCHS)

Prerequisite: Introduction to Law and Acceptance to SCALE Program

1 year, 1 credit
Weight: 1.16Grades 11-12
Elective

This course examines the origins of law, civil law, business ethics, court system, business-related torts, contracts, agency, partnership, corporations, employment law, intellectual property and international business law. This course is offered in conjunction with C.W. Post College as part of the SCALE offerings. Students may earn three college credits upon successful completion of this course.

TRIAL LAW (EMHS)

Prerequisite: None

1 year, 1 credit
Weight: 1.05Grades 10-12
Elective

This course is designed for students to investigate the foundations of our trial system. Throughout the year, students will research our court system and perform mock trials for hands-on experience. The mock trial preparation will provide a technical introduction to the major components of a trial: opening statements, direct and cross examinations, and closing arguments. Oral presentations are designed to assess a student's comprehension of course content through the use of various multimedia tools including PowerPoint, Photoshop and Inspiration.

ADDITIONAL SOCIAL STUDIES COURSES**DEVELOPMENTAL PSYCHOLOGY (EMHS)**

Prerequisite: None

1 semester, 1/2 credit
Weight: 1.05Grades 10-12
Elective

This course is an introduction to the concepts associated with developmental psychology. Developmental psychology is a branch of psychology that focuses on the physical, cognitive, and social changes throughout the life span. Using case studies, videos and interactive simulations, students will learn about this field of psychology. This course will guide students toward a greater understanding of their own capacity and growth.

HISTORY AND PERSPECTIVES ON LEARNING (EMHS)

Prerequisite: None

1 year, 1 credit
Weight: 1.05Grades 11-12
Elective

This course is designed for the high school student interested in a career in education. Students will explore the historical aspects of teaching through the works of Socrates, Plato, Aristotle, Calvin, Locke, DuBois, Darwin, and Dewey, in order to formulate a sociological and philosophical perspective relative to education.

HOLOCAUST STUDIES

Prerequisite: None

1 semester, 1/2 credit
Weight: 1.05Grades 11-12
Elective

This course will examine the roots and developments that led to one of the most infamous periods of human history, the Holocaust. The goal of this course is to provide students with an understanding of these tragic events and nurture a respect for all human life. This course will include media related to the Holocaust and a field trip to the Nassau County Holocaust Memorial and Educational Center in Glen Cove.

NEW YORK, NEW YORK

Prerequisite: Global History and Geography 10

1 semester, 1/2 credit

Weight: 1.05

Grades 11-12

Elective

This course is designed to explore the rich history and culture of New York City. Particular attention will be given to such topics as early New York, immigration, city culture, geography, social and political reform, and the 100th anniversary of the consolidation of the five boroughs into one city. The city will be used as a resource. Field trips will be used to enhance in-class studies.

INTRODUCTION TO PSYCHOLOGY 1

Prerequisite: None

1 semester, 1/2 credit

Weight: 1.05

Grades 10-12

Elective

This elective course is an introduction to the principles of psychology and provides insights into personal and interpersonal development. Some of the topics that will be discussed are learning and memory, intelligence, the senses, and abnormal behavior. The course will use hands-on experiments and multimedia to explore psychological issues.

INTRODUCTION TO PSYCHOLOGY 2 **NEW COURSE**

Prerequisite: Introduction to Psychology

1 semester, 1/2 credit

Weight: 1.05

Grades 10-12

Elective

Introduction to Psychology 2 expands upon the topics that were studied in Introduction to Psychology 1 and also introduces new topics of study. In this class, students will explore topics such as Developmental Psychology, Altered States of Consciousness, Social Psychology, and various psychological disorders. These topics will be explored through the use of case studies, experiments, and interactive lessons. Students must have successfully completed Introduction to Psychology 1 in order to enroll in this class.

SOCIETY AND MUSIC

Prerequisite: None

1 year, 1 credit (EMHS)

1 semester, 1/2 credit (WTCHS)

Weight: 1.05

Grades 11-12

Elective

This course examines the connections between American culture and popular music from 1900 to the present. Students will learn about this relationship by analyzing cultural trends, key events, influential performers and song lyrics. A number of music genres are presented: Ragtime, Dixieland, Swing, Jazz, Blues, Rockabilly, Surf, Motown, British Invasion, Classic Rock, Heavy Metal, Reggae, Punk and Rap.

SOCIOLOGY

Prerequisite: None

1 semester, 1/2 credit

Weight: 1.05

Grades 10-12

Elective

This elective focuses on the study of the structure and the functioning of human groups, including the social relationships which people develop in their interactions with one another. The course will consider such topics as the origins of culture, cultural diversity, and most important, the cultural heritage of the individual student in terms of his or her own personality and relationship to the group. It is anticipated that the students, through application of fundamental concepts discussed in the course, will approach the problems of their own society with greater objectivity.

THE WORLD AT WAR

Prerequisite: None

1 semester, 1/2 credit

Weight: 1.05

Grades 11-12

Elective

This will be a course that will allow students to focus on the events and implications of World War I, World War II, and the Cold War. This course will cover the various battles, actions, and the policies associated with these 20th Century events. A variety of media (movies, newspapers, projects, etc.) will be incorporated and some declassified facts about this era will also be included in the course.

