

2012

2012-2013 Program of Studies

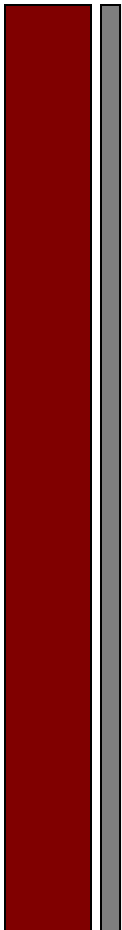
An Educational Planning Guide
for Students and Parents

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High School Staff



ADMINISTRATION:
Principal, Douglas A. Van Etten
Vice Principal, Karen M. Lang



GUIDANCE COUNSELORS:
Grades 10-12
Guidance Director, Mrs. Lisa Eves
Mrs. Darlene Latten
Grades 9-12
Mrs. Audrey Fairchild

TYPES OF DIPLOMAS

Advanced Regents Diploma:

Students must score 65 or above on 9 Regents exams and earn 22 units of credit.

Regents Diploma:

Students must score 65 or above on 5 Regents exams and earn 22 units of credit.

Local Diploma (*Special Education students only*):

Students must score 55-64 on 5 Regents exams and earn 22 units of credit.

REQUIRED REGENTS EXAMINATIONS:

Advanced Regents Diploma: Two Regents in Science, three Regents in Math, Global Studies (grade 10), US History & Gov't (grade 11), Comprehensive English (grade 11), Foreign Language (after third year).

Regents Diploma: One Regents exam in Science, Math, Global Studies (grade 10), US History & Government (grade 11), Comprehensive English (grade 11).

All students are expected to take FIVE subjects each year in addition to Physical Education AND earn 22 units of credit to earn a New York State Diploma.

PLANNING YOUR PROGRAM – REQUIREMENTS FOR GRADUATION

English	4 Units of Credit	Health	½ Unit of Credit
Social Studies	4 Units of Credit	Phys. Ed.	½ Unit of Credit
Science	3 Units of Credit	Art/Music or Technology	1 Unit of Credit
Math	3 Units of Credit		

Foreign Language -1 Unit of Credit for a Regents or Local Diploma or 3 units for an Advanced Regents Diploma.

*Successful completion of a Foreign Language in Junior High will earn a student one unit of credit. The Class of 2007 and beyond MUST pass the Foreign Language Proficiency Exam given at the end of 8th grade.

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CLASS RANK – G.P.A.

Students receive a weighted average their senior year to determine class rank and G.P.A. (grade point average) for college applications. Final class rank is determined after the 2nd marking period of their senior year (7 semesters).

Courses are weighted as follows:

- 1.10 College Courses
AP Courses (Advanced Placement)
CLEP
- 1.05 Honors classes
- 1.00 All other courses

An unweighted average will determine a student's eligibility for co-curricular activities, honor roll, parking privileges, National Honor Society, merit and senior honor study halls, and lunch privileges.

MISSION STATEMENT

The Homer Central School District promotes excellence in education through a variety of opportunities in a collaborative environment built on respect, equity, trust, and responsibility.



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ART

Studio in Art I

40 Weeks, 1 Credit

Note: This course may be utilized to satisfy the Regents requirement for 1 credit of Art, Music, or Technology.

The foundation program for crafts, architecture, and visual arts, students are presented with a variety of projects covering design, color, sculpture, graphics, art history, and 20 weeks of drawing.

Studio in Art II

40 Weeks, 1 Credit

Prerequisites: Studio in Art I and II, 88+ average recommended

Intensive study of the mechanics of drawing (i.e. line, shape, form, shading). Materials: ebony pencil, soft and hard lead pencils, charcoal pastels, oil pastels, conte, crayon and ink.

Techniques (types of lessons): anatomy, still life, landscape, design, fantasy, illustration, cartooning, printmaking. A sketchbook and colored pencils are required.

Studio in Art III

40 Weeks, 1 Credit

Prerequisites: Studio in Art I

While Studio III has been planned to meet state guidelines for “Advanced Drawing and Painting,” it has been expanded to offer a broader range of study. Students can expect to undertake advanced work in drawing, painting, design, sculpture, and three dimensional designs.

Studio in Art IV/V

40 Weeks, 1 Credit

Prerequisites: Studio in Art I, II, and III, 88+ average recommended and teacher recommendation

Studio IV offers advanced versions of the problem areas undertaken in Studio III, with a strong emphasis on creative problem solving. Only students who are Regents Art majors and have done well in Studio III should attempt this course. *Students may be required to purchase materials throughout the year (ex: colored pencils, matt boards).*

3D Design and Sculpture

40 Weeks, 1 Credit

Prerequisite: Studio in Art I

This class is an in depth exploration into sculpture and 3D jewelry design. Students will work with metal, silver, copper, bronze, nickel, castings, hammer forging, plaster and clay. In 3D Design we will become accustomed to the uses of adobe photo shop and jewelry design as well as product production and advertising. There will be studio costs associated with this class for market prices of precious metal.

Adobe Photo and Digital Photography

20 Weeks, ½ Credit

Prerequisite: Students must have successfully completed Studio Art I

Grades 11 and 12

This art elective introduces students to the techniques of creating and manipulating images using a digital camera and Adobe Photoshop. The emphasis of the course will be the production of creative concurrent graphics and printer photography. Students will learn to use imaging scanning printers. A studio fee will be assessed. This class can only accommodate 15 students – preference will be given to under classmen.

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ENGLISH

Emphasizing reading and writing skills on all levels, the 9th grade program focuses on genre. The English Department offers in grades 10, 11, and 12 a multi-level program: Honors, Academic (Regents), and non-Regents (NR). The 10th grade curriculum focuses on American Literature, the 11th grade curriculum on British Literature, and the senior year of English provides work in World Literature.

The New York State Comprehensive English Regents Examination is given in June of the junior year.

REQUIRED COURSES

English 9 R

40 Weeks, 1 Credit

This course offers a study of each of the literary genres: short story, drama, poetry, the epic, the novel, and nonfiction. Composition, vocabulary, research, oral interpretation, and outside reading are important components of the course. In addition, students receive instruction in the use of the library and computer lab.

English 9 Honors

40 Weeks, 1 Credit

Prerequisite: 8th Grade Teacher Recommendation

The course follows the English 9 curriculum, offering a study of each of the literary genres: short story, drama, poetry, the epic, novel, and nonfiction. The honors program emphasizes the listening and speaking strand to prepare for the junior year's Regents exam. Supplementary readings and writings will expose students to a more enriched literary background in preparation for English 12AP.

English 10 R

40 Weeks, 1 Credit

This course is a survey of American Literature from the Puritan Era to the Modern Era. American ideas and philosophies are the focus. Other requirements include: public speaking, one research paper, and monthly essay writing.

English 10 Honors

40 Weeks, 1 Credit

Prerequisite: Teacher Recommendation

This elective course is a survey of select American Literature from the Puritan to the Modern Era. Public speaking is required. Emphasis is on higher-level problem-solving and writing skills, reading comprehension, and class discussion. A yearlong Humanities project may be assigned instead of a final exam. Also, challenging pieces of literature are taught in preparation for English 12AP.

English 11 R

40 Weeks, 1 Credit

British Literature is studied in chronology. In addition to continued practice in writing and vocabulary, there is a special unit on career planning. The NYS Comprehensive English Regents exam is given in June.

English 11 Honors

40 Weeks, 1 Credit

Prerequisite: Participation in Honors 10 and/or teacher recommendation

English 11 Honors involves the intensive study of select writers/eras of British Literature. The focus is on study, discussion, vocabulary, and writing at the college level. Literature is selected in preparation for students continuing on to English 12 AP. The NYS Comprehensive English Regents exam is given in June.

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English 12 R

20 Weeks, ½ Credit

This course offers a chronological study of World Literature. Students will begin with epic readings from the ancient cultures and will proceed through other genres into the Modern Age. Composition, vocabulary, speech, and a portfolio project are also an integral component of the course. Students will complete the English 12 credit by completing at least one of the following three courses.

Technical Writing (12 R)

20 Weeks, ½ Credit

This course includes an emphasis on the writing of reports, essays, letters, resumes, grants, and research methods. The APA citation would be taught. Literature would be largely non-fiction, including trade journals, science manuals, newspapers, memoirs, and essays.

Writing from Literature (12 R)

20 Weeks, ½ Credit

This course includes an emphasis on the writing of all types of expository essays. Analysis and argument will be a focus. Research methods will also be employed, using the MLA citation form. Literature would be largely fiction, including a comparative literature approach.

Writing with a Focus on Technology/Mass Media (12 R)

20 Weeks, ½ Credit

This course includes an emphasis on various personal response/analysis of literature, non-fiction, film, and other print or online mediums. There will be a focus on journalism and analysis of online sources. Involvement in blogging and web publication/design/online writing will also be a component.

English 12 AP

40 Weeks, 1 Credit

Prerequisite: Participation in Honors 11 and teacher recommendation

English 12 AP is a course designed for those who will sit for the English Literature and Composition AP exam in May. The curriculum has been approved by the National AP Audit board. The first twenty weeks is an intense study of ancient writing: Sumerian, Greek, Roman, and Arabic writings will be examined. The second twenty weeks is a survey of classical world literature (novels, non-fiction, drama) from French, Italian, Russian, British and American writers commonly used on the AP exam. Students will submit papers throughout the forty weeks. These papers will include exercises in: analysis, argument, comparison, and research. In addition to the AP exam, there is a comprehensive final exam.

ELECTIVE COURSE OFFERINGS *(Contingent on staffing)*

Creative Writing

20 Weeks, ½ Credit

This workshop course will expose the novice writer to a variety of writing projects designed to foster self-expression and individual growth in multiple forms. We will practice short fiction, drama, poetry, and the modern essay through published models and peer-response. The student's pieces will move through private writing to public writing in forms chosen by and comfortable to the individual. Students will be evaluated according to personal growth toward the standards of published works. Students will do a lot of work with grammar, punctuation, and effective sentence structure.

As this is a workshop course, each student will be expected to proceed in an engaged and timely manner through the assignments to the completion of a semester project in consultation with the teacher.

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Death and Society

20 Weeks, ½ Credit

The idea of death will be examined in three ways: through literature and film, through discussion of controversial issues (abortion, suicide, euthanasia, AIDS), and through a pragmatic approach examining funeral practices in our community. The exploration of death in various areas will enable students to deepen their understanding of their world and themselves.

FOREIGN LANGUAGES

The high school foreign language program is designed to meet the NYS Regents standards. Language Level II is to be a continuation of the junior high Level I (grades 7 and 8). Language Levels II and III courses are called “intermediate,” and covers material for success in the local Regents Comprehensive Exam taken at the end of the year. Levels IV and V are “advanced” foreign language electives, and they can result in a student taking exams to earn college credits.

Homer offers a choice of three modern languages – French, German, and Spanish. The program begins in the junior high school, currently at grade 7. As students conclude their two years of foreign language study at the end of grade 8, they will take a local Foreign Language Proficiency Exam. Upon passing the exam as well as language classes in grades 7 and 8, students who will be earning an Advanced Regents Diploma will enter grade 9 foreign language study at Level II. They could complete Level III in their sophomore year.

High school students must study only one foreign language for the Advanced Regents Diploma, but are welcome to study another foreign language if their schedule allows. Also, when the foreign language teachers and students find it possible, exchange and travel opportunities are made available. Foreign language teachers conduct student trips to Quebec, France, Germany, Mexico, Spain, and Costa Rica. In addition, the department maintains an International Club composed of students who study foreign languages. The club sponsors various trips and activities and raises funds to support this travel, along with student scholarships and awards.

COURSE OFFERINGS

French I, Spanish I

40 Weeks, 1 Credit

This course is offered at the high school to those students who want to study a second foreign language at the beginning level or who did not successfully complete their requirements at the end of 8th grade.

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French II, Spanish II

40 Weeks, 1 Credit

Prerequisite: Passing Grades 7 and 8 Foreign Language and passing Foreign Language Local Proficiency Exam

Level II is a continuation of the skills development of Level I. It is the beginning of the “intermediate” level. More in-depth information is given with greater emphasis on speech patterns and correct structures. Cultural enrichment is an on-going part of this course through the use of language CD’s, video programs, texts and workbooks. Readers and authentic materials are used in a variety of ways.

French III, German III, Spanish III

40 Weeks, 1 Credit

Prerequisite: Level II

Level III, the completion year of the “intermediate” level, ends the year with the local Regents Exam. The course involves the review of all grammar points and structures, with equal emphasis on the skills of listening, speaking, reading, and writing. Video programs, texts and workbooks, language readers, language tapes and authentic materials are used in the course. Cultural enrichment is continually emphasized.

French IV, German IV, Spanish IV

40 Weeks, 1 Credit

Prerequisite: Completion of Level III

Level IV studies are considered to be “advanced.” The methods of teaching the courses involve formal discussion, reading and writing. Surveys of foreign literature, histories and cultures enhance the course. Oral reporting, role-playing, letter and composition writing, and research will be frequent. A review of more advanced grammar and language is included.

French V, German V, Spanish V

40 Weeks, 1 Credit

Prerequisite: Level IV and teacher recommendation

This advanced course is offered in French, German, and Spanish to students who have completed Level IV in the language. College level work is presented, as well as expected of these students. Seniors in this course will prepare to take an optional foreign language exam for college credits.

C.L.E.P. –College Level Examination Program

HEALTH

Sports Medicine

20 Weeks, ½ Credit

Prerequisite: Health - Grades 11 and 12

Designed for entry-level student's initial exposure to the athletic training profession. This course is intended to serve as an interview to the vast science of athletic health care.

Health

20 Weeks, ½ Credit

Prerequisite: Health

Health is a mandated subject in New York State. A student cannot graduate without having a passing grade of 65. Topic areas included in this curriculum are wellness, nutrition, physical fitness, disease prevention and control, alcohol, tobacco and other drugs, interpersonal relationships, human sexuality, and HIV/AIDS.

Psychology

20 Weeks, ½ Credit

Prerequisite: Health Seniors only

This is a general psychology course that includes the study of human relations; awareness and perception, memory and thought, body and behavior, psychological growth, personality theories and disturbance and breakdown. The course is fashioned after college Psychology 101. Good reading and vocabulary skills are necessary along with a high level of interest.

MATH

The emphasis of the Math Program is to develop logical thinking and reasoning skills. We hope to provide a basis for further study for those going beyond high school, as well as a background in necessary math skills for those choosing not to continue.

Algebra I

40 Weeks, 1 Credit

Prerequisite: Successful completion of 8th Grade Math

This course is parallel to the Algebra program but moves at a less rigorous pace. This is the first course of a two-year program leading to the Regents exam in Algebra at the end of the second year.

Algebra I R

40 Weeks, 1 Credit

Prerequisite: Algebra I

This is the second year of the Algebra I curriculum with the Algebra Regents exam given in June.

Algebra R

40 Weeks, 1 Credit

Prerequisite: Successful completion of 8th Grade Math

This is the first course of a three-year sequence. Among topics considered are polynomials, equations, verbal problems, factoring, powers, roots, radicals, ratio, portions, systems of equations, graphing, quadratics, probability, statistics, logic, right triangle trigonometry, and introduction to geometry. The Integrated Algebra Regents exam will be taken in June.

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Geometry I

40 Weeks, 1 Credit

Prerequisite: Algebra I R

This is a course parallel to the geometry program but moves at a less rigorous pace. This is the first course in the geometry program that allows students to understand the basics of geometry but is not as rigorous as Geometry R. The Regents exam is not required.

Geometry R

40 Weeks, 1 Credit

Prerequisite: Algebra and a 75 or higher on the Algebra Regents exam

This is the second year of a 3-year sequence in Mathematics. Topics included are sets and operations, conic section, Euclidean and coordinate geometry proofs, indirect proofs and solid geometry. The Geometry Regents exam will be given in June.

Trigonometry I

40 Weeks, 1 Credit

Prerequisite: Geometry I

This is a course parallel to the trigonometry program but moves at a less rigorous pace with no Regents exam at the end of the course. This is designed for students planning on furthering their education but not strong math students. The Regents exam is not required.

Trigonometry R

40 Weeks, 1 Credit

Prerequisite: Geometry and 65 or higher on Geometry Regents

This is a third year of a 3-year sequence in Mathematics. Topics included are sets and operations, factoring, posers, roots, radicals, exponents, systems of equations, complex numbers, graphing functions and higher degree equations, variations, trigonometric functions, application of trigonometry functions, statistics, and binomial theorem. The Trigonometry Regents will be given in June.

Math Applications

40 Weeks, 1 Credit

This course is designed for the student who has successfully completed two years of Math and needs a third year of Math in order to meet graduation requirements. It covers topics such as gross and net income, creating a budget, cash purchases such as buying a home and buying a car, as well as credit cards and charge accounts. The course teaches basic banking skills, such as handling checking and saving accounts, making investments (stocks and bonds), mortgage loans, and both homeowners and life insurance.

Pre-Calculus I

20 Weeks, ½ Credit

Prerequisite: Trigonometry R

Students planning a college major that requires Calculus, especially Mathematics or Science majors, should take this course. Topics include fundamentals of algebra with an emphasis on the principles needed for calculus, functions and their graphs, and applications of both linear and quadratic functions.

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Pre-Calculus II

20 Weeks, ½ Credit (3 units college credit)

Prerequisite: Pre-Calculus I

This course is a continuation of Pre-Calculus I. Topics include the study of the four conic sections, polynomial and rational functions, synthetic division along with the factor, remainder and rational root theorems, composition and decomposition of functions, radical functions, inverse functions, exponential and logarithmic functions, and trigonometric functions. The emphasis is placed on how these functions are used in the study of Calculus.

Calculus I-AP

40 Weeks, 1 Credit (4 units college credit)

Prerequisite: Pre-Calculus I/II

This is a college course offered in conjunction with TC3 for 4 units of college credit. Topics include: fundamentals of algebra, linear, rational, radical, exponential and logarithmic functions and equations, trigonometry, the circular functions, sequences and series, limits, techniques of differentiation and integration, related rates and applied maximum and minimum problems. Calculus I-AP is a course is intended to prepare students who will sit for the Calculus A/B AP exam in May.

Calculus II-AP

40 Weeks, 1 Credit (4 units college credit)

Prerequisite: Calculus II

This course is a continuation of Calculus I. Topics include: differentiation and integration of elementary functions, parametric equations, polar coordinates, arc length, curvature, L'Hopital's Rule, and improper integrals. Use of the graphing calculator is required. Use of the TI-83 Plus in class and the TI-89 will be permitted. The course is intended for engineering, liberal arts, and computer science students. Calculus II-AP is a course is intended to prepare students who will sit for the Calculus B/C AP exam in May. Instructional mode is primarily lecture.

Chess Theory I and II

20 Weeks, ½ Credit

Prerequisite: One year of high school mathematics before taking this course.

Students in the class will learn and improve their thought process and reasoning skills through game strategy. Students will learn the benefits of thinking ahead; not only by thinking of immediate reactions, but of consequences far beyond an initial event. Students may earn ½ credit each semester taken. Chess I will be offered in the fall followed by Chess II in the spring.

MUSIC

Participation in music groups and classes is fun and rewarding! Homer High School provides students with the opportunity to experience excellent band, choral, as well as in-depth historical, theoretical, and computer-assisted instruction in music. Offerings for students are broken down into:

Curricular offerings, with little or no after school requirements, include, Concert Choir, Band, Band Lessons, Beginner Instrumental Instruction, Music Theory I and II, Bach to Rock, and many small ensembles.

Extra-curricular offerings (membership in which normally involves a co-requisite membership in a curricular ensemble) include Instrumental Jazz Ensemble, the “Blue Notes” Vocal Jazz Ensemble, the annual Holiday Ensemble, “Ruby Rhythms” Women’s Choir, Pep Band, Indoor Color Guard, and the annual High School Musical with its Theatre Orchestra.

Elective offerings: In addition to a full complement of band instruments, students have access to computers, synthesizers, and mixing and sound reinforcement equipment for technology-assisted student instruction in arranging, composition, sequencing, music theory, and sound reinforcement/recording studies.

CURRICULAR OFFERINGS

Vocal Music

Concert Choir

40 Weeks, 1 Credit

The Concert Choir is a major performing ensemble of the high school. Participation in the numerous performances are required of all members. Major performances include a Holiday Concert, an All-District Choral Concert, NYSSMA choral competition, and a Spring Concert. The Concert Choir may also travel to other locations for exchange concerts, workshops, and festivals whenever possible.

The ensembles studies many genres of music including classical, folk, pop, show tunes, vocal jazz, ethnic, etc...Selected students are also given solo performance opportunities. This is a high level ensemble that has a history of performing very difficult music (Level V and VI) with strong ratings of silver and gold.

Students receive one unit of credit for the year’s participation in Concert Choir; however, Concert Choir members who are also Band members and who therefore attend rehearsals of each organization on alternate days will receive ½ credit for the year from each organization.

***Note: Students may not request Choir every other day to participate in another class or study hall.**

Students in Concert Choir have the option of receiving group voice lessons during the school day, which is highly encouraged. Students may also select to prepare a NYSSMA solo, which can qualify them for participation in All-County and Area All-State in the following year.

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Vocal Music

Chamber Choir

40 Weeks, 1 Credit

The Chamber Choir is a performing ensemble designed to ease the transition from Junior High to High School level music. Major emphasis is placed on music reading, ear training, intonation, sight-reading, tone, balance, and blend. Required performances include The Winter Concert, All-District Vocal Concert, and the Spring Concert. Participation in all performances is required of all members. As a member of the Chamber Choir, students are eligible for participation in Ruby Rhythms, Blue Notes, and Christmas Ensemble.

The Chamber Choir studies many genres of music including classical, folk, pop, show tunes, vocal jazz, ethnic, etc...All students will have the opportunity to audition for solo performance opportunities in choral pieces. This is a chamber ensemble, where students will have more individualized attention and the opportunity to hone their skills in preparation for participation in Concert Choir the following year.

Students in the Chamber Choir have the option of receiving group voice lessons during the school day, which is highly encouraged. Students may also select to prepare a NYSSMA solo, which can qualify them for participation in All-County and Area All-State in the following year.

Instrumental Music

Senior High Band

40 Weeks, 1 Credit

Co-requisite: weekly lessons

This group, meeting during school every day, performs public concerts and judged performances throughout the year. Out-of-town competitions, and optional small-group performances, are also arranged.

The organization's repertoire explores many different styles of music – classical, show tunes, concert Marches, pop selections, ethnic music, jazz, etc...The band has a tradition of performing challenging music (Level V or VI) to high standards (silver or gold). The ensemble has won awards in competitions in Canada and the United States, and in 1995 was proud to release a compact disc recording.

Members of band may be selected for the Area all-State, or (the highest honor) the All-State music ensembles based on participation in the state's spring solo festival.

Students may, on an individual basis, request band every other day for ½ credit, if chorus is scheduled during the same period. ***Note: Students may not request Band every other day to participate in another class or study hall.**

When enrollment permits, a second, more select "Wind Ensemble" is formed throughout auditions.

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Instrumental Lessons

Senior High Band

40 Weeks, ¼ Credit

Certain conditions apply – see instrumental music teacher

One lesson per week for students not enrolled in concert band and for extracurricular co-requisite lesson requirement.

EXTRA-CURRRICULAR OFFERINGS

Jazz Band

Co-requisites: Membership in Senior High Band OR weekly school lessons and permission of Director. All students must be in good academic standing to be eligible to perform.

The Jazz Ensemble participates in competitions, school assemblies, and concerts performing all types of jazz, swing, and rock music. Through this group, an opportunity is provided for the interested students to perform, in a serious way, this important facet of the American music scene.

Marching Band

Co-requisites for winds and percussions:: Membership in Senior High Band OR weekly school lessons and permission of Director. All students must be in good academic standing to be eligible to perform.

Co-requisites for Color Guard: Participation in Fall or Winter Guard.

The Marching Band performs in the Spring for various local parades including the Memorial Day and Dairy parades. Students are instructed in proper marching technique, the playing techniques specific for the outdoors, and the memorization of music. In appreciation for their participation, students receive points on their band average or weekly average as well as an exemption from performing a final exam.

Pep Band

Co-requisites for winds and percussions: Membership in Senior High Band OR weekly school lessons and permission of Director. All students must be in good academic standing to be eligible to perform.

The Pep Band performs during home football games during the regular school year. Students entertain themselves and others by playing a wide array of popular music which includes movie sound tracks, jazz, rock, and funk. Student's musical arrangements are encouraged. Students receive extra credit on their band or weekly lesson averages for each football game they participate in.

Pit Orchestra

Co-requisites for winds and percussions: Membership in Senior High Band OR weekly school lessons and permission of Director. All students must be in good academic standing to be eligible to perform.

The Pit Orchestra provides the accompaniment for the school musical which takes place in early March. The music (which is the exact same music that the professionals on Broadway use) is difficult and demanding, but at the same time rewarding and a terrific musical learning experience. Rehearsals take place one 9th period per week starting in January. As the musical gets close to its performance time, the orchestra meets nightly with cast, crew, and tech to put the whole show together. Students receive extra credit on their band or weekly lesson averages.

Winter Color Guard

Prerequisite: Successful audition (Participation in the Cadet Winter Guard Program and/or Marching Band – Color Guard is recommended though not required)

The activity is called "The Sports of the Arts." It combines elements of musical theater, dance, and Color Guard equipment with the athleticism and competitive aspects of sports. Members perform a show that visually interprets music using flags, rifles, sabers, and dance. The ensemble competes with other units around New York State as a member of the Mid-York Color Guard Circuit and nationally in competitions sponsored by Winter Guard International.

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Blue Notes

Co-requisites: Membership in the Chamber Concert

While the main focus of this ensemble is vocal jazz, other styles such as rock, swing, and popular music are studied and performed. Emphasis is placed on vocal style, blend, tone, intonation, balance and music reading. This vocal jazz ensemble rehearses once a week and performs concerts for the school, parents, and community throughout the year. The Blue Notes also competes at the NYSSMA Choral competition and performs at local festivals.

Ruby Rhythms

Prerequisite: Membership in the Chamber Concert

Ruby Rhythms is a select women's chorus. They perform a varied repertoire of music from classical to contemporary selections. Concerts include the Winter Concert, Cabaret, the Spring Concert, competitions, as well as various performances in and around the community.

ELECTIVE COURSE OFFERINGS

Bach to Rock

40 Weeks, 1 Credit

This is a project based course that covers a broad range of topics related to music. Many styles of music will be discussed from ethnic to jazz, to classical, to pop/rock. It will discuss the role of music in television and film, and on the internet and related careers in music. It will also look at how music is created from acoustic instruments to the use of modern synthesizer.

***Note: This course may be utilized to satisfy the Regents requirement for one art, music, or technology credit.**

Independent Study Music

40 Weeks, ½ to 1 Credit

Prerequisite: High ability and interest in music, and permission of the Music department

This course, designed especially for each specific student, allows for intensive preparation for the theoretical and historical part of college auditions. Ear training, dictation, composition, beginning through advanced theory, and computer assisted instruction are some of the topics of past independent studies.

Music Theory I

40 Weeks, 1 Credit

Prerequisite: Students must be enrolled in Band or Choir or permission of instructor

This course is a study of the components of music notation and structure, including intervals, triads, harmonization, melodic, structure, and basic music composition. Instruction will include use of music notation and sequencing programs on computers. The course is designed for serious music students.

Music Theory II

40 Weeks, 1 Credit

Prerequisite: Students must be enrolled in Band or Choir or permission of instructor

This course will help students develop advanced knowledge of musical structure, composition, and analysis with the intent of preparing students for study of music at the college level and the AP Music Theory Exam. Students will develop aural skills, oral music reading skills, and keyboard skills.

PHYSICAL EDUCATION

INTRODUCTION

In the Physical Education curriculum, student will participate in activities that will empower them to continue regular, lifelong physical activity as a foundation for a healthy, productive life. The physical education student will leave Homer High School as an individual well rounded in a variety of individual/team sports, social skills, selected areas of wellness, and lifetime fitness. Students will have the knowledge and basic skills to establish and maintain physical fitness, participate in physical activities, and maintain good personal health.

The high school curriculum builds upon the program at the junior high school with a progression of activities that are activity based, preparing students for lifetime wellness through physical activities. Active participation, skills and knowledge, and positive values expressed through “character education” are the foundation of the high school program. Understanding that all students will not excel in all areas of physical education, the goal of the curriculum is to assist students in:

- Developing competency/proficiency in a variety of activities
- Understanding the benefits of regular physical exercise
- Understanding the effects of activity on the body and risks associated with inactivity
- Understanding the basic components of health-related fitness (cardio-respiratory, muscular strength, muscular endurance, flexibility, and body composition) and how to include them in the development of a personal fitness program
- Demonstrating responsible social behavior while participating in physical activity or as a spectator
- Performing cardio-respiratory activities within the target heart range by using the FITT principle
- Understanding diversity in groups and how to work through differences
- Promoting health and wellness
- Developing a positive self-image
- Developing sound safety habits and attitudes
- Finding opportunities to develop leadership abilities

STUDENT ACTIVITIES

The Prudential Fitness-gram Testing is done at all grade levels.

9th-10th Grade

Aussie Footie, Basketball, Cardio-Respiratory Fitness, Cricket, Dance, Field Hockey Fitness Circuits, Flag Football, Frisbee Games, Group Games, Karate, Lifetime Games, Orienteering, Power Walking, Project Adventure, Rugby, Soccer, Softball, Track and Field, Volleyball, Weight Training, and Wrestling.

11th-12th Grade

Archery, Backpacking, Badminton, Bocce, Bowling, Broomball, Canoeing/Kayaking, Cardio-Respiratory Fitness, Cardio Kick Boxing, Dance, Flag Football, Field Hockey, Fitness Circuits, Fly Fishing, Geo Caching, Golf, Hiking, Ice Skating, Lifetime Games, Mountain Biking, Paddleball, Pickle Ball, Power Walking, Project Adventure, Soccer, Snow Shoeing, Softball, Table Tennis, Team Handball, Tennis, Volleyball, and Weight Training.

SCIENCE

The student has the opportunity to learn the array of concepts, related facts and laboratory skills of science through a program of numerous offerings. Laboratory work is incorporated into all levels. At least one Regents exam is required in Science by the state for graduation. The Regents sequence is designed for those students who do not necessarily have college in mind but are exploring the fundamental ideas in each Science. The Advanced Regents sequence requires three years of Science and passing two Regents exams. It is designed for the student who wishes to go to college. The Honors sequence is designed to those students who are contemplating majoring in science in college or wish a more rigorous course than the core Regents course. The Advanced Placement program is for the higher ability student who wishes to gain college credit for a particular course. This credit may be granted upon successful completion of the AP exam.

In Regents level courses, laboratory exercises representing at least 1200 minutes of laboratory periods and accompanied by satisfactorily written reports are **state mandated** for Regents examination eligibility. Each student in a Regents, Honors, and AP level courses will be scheduled for 9 classes in a six-day cycle to meet time requirements and accomplish this work. The Regents exam is the final exam in all Regents and Honors level courses.

GRADUATION REQUIREMENTS:

Every student is required to successfully complete three full years of Science. At least two of these courses must be based on the NYS Core, and the student must pass at least one of the Regents exams.

CORE COURSES:

Earth Science Regents

40 Weeks, 1 Credit

Prerequisite: All 9th graders will take this course unless they qualify for Honors Earth Science

This is a course that will follow the Earth Science Core Curriculum. The three main areas of study are:

1. Geology – rocks and minerals, plate tectonic theory, and Earth history
2. Meteorology – atmospheric energy and its relation to weather and climate
3. Astronomy – the universe, our solar system, and motions of the Earth and Earth's moon.

Laboratory investigative approach to learning is emphasized. Satisfactory skill in writing lab reports is essential. At the completion of the course, students will take the NYS Regents Exam in Earth Science.

2012-2013 Program of Studies

Honors Earth Science

40 Weeks, 1 Credit

Prerequisite: 90 or above on Algebra I R exam/8th grade math final average and 8th grade science final average AND recommendation of 8th grade Science teacher. Students are expected to demonstrate their qualification as an honor student and must maintain an average of 85% or higher to remain in the course.

This is a course that will follow the Earth Science Core Curriculum as described for Regents Earth Science, but there will be increased depth and detail to each main area of study. Additional content may also be included that involves an increased emphasis on scientific inquiry as determined by the instructor. This may include an increased emphasis on student's use of technology or a long-term independent field or laboratory research project in addition to the required lab reports. At the completion of the course, students will take the NYS Regents Exam in Earth Science.

Biology Regents

40 Weeks, 1 Credit

Prerequisite: Successful completion of Earth Science Regents

The course presents a concentrated study of unity and diversity among living things, maintenance of living things, human physiology, reproduction and development, transmission of traits from generation to generation, evolution, and ecology. The requirements include the satisfactory completion of all assigned laboratory reports and mastery of laboratory skills. The final exam is the Regents Exam in Living Environment.

Honors Biology

40 Weeks, 1 Credit

Prerequisite: Successful completion of Earth Science Regents and a Math Regents course with at least 90 on both exams. Recommendation of Earth Science teacher. Students are expected to demonstrate their qualification as an honor student and must maintain an average of 85% or higher to remain in the course.

This is a course offered to students as an alternative to Regents Biology. Students planning to take Honors Chemistry, or advanced placement Biology are encouraged to take Honors Biology.

Honors Biology will cover the same topics required in the Regents Biology/Living Environment curriculum. These topics include ecology, botany, genetics, anatomy and physiology. Students in Honors Biology will study these topics in more depth and detail. More long term investigations and relationships with current research will take place in this class.

The final for this course will be the Living Environment Regents Exam.

ELECTIVE COURSE OFFERINGS

Advanced Placement Biology

40 Weeks, 1 Credit/8 College Credits

Prerequisite: Regents Biology and Regents Chemistry or permission of the instructor

This course is designed for seniors wishing to take an advanced study of Biology. Major topics of the course include biochemistry and cellular structure, genetics and evolution, and organisms as populations. Course requirements will include in-depth laboratory activity and reports, essays, exams, a midterm and a final. A major focus of the course will be preparation for the Advanced Placement Exam given in May.

***Note: Students who successfully complete this course will earn 8 credits from the TC3 Concurrent Enrollment Program.**

Chemistry Regents

40 Weeks, 1 Credit

Prerequisite: Successfully completed Algebra Regents Exam and enrolled in Regents Geometry or Trigonometry

This course enables the student to learn skills and content dealing with a modern study of matter. Units include matter and energy, atomic structure, bonding, periodic table, mathematics of chemistry, kinetics and equilibrium, acids and bases, redox and electrochemistry, organic chemistry, and in-depth study of any of the required units. Requirements for the regents include satisfactory completion of assigned laboratory reports.

Honors Chemistry

40 Weeks, 1 Credit

Prerequisite: 90 or higher on each of TWO Science Regents Exams and the Algebra Regents Exam.

Students are expected to demonstrate their qualifications as an honor student and must maintain an average of 85% or higher to remain in the course.

This course is designed for the student wishing Regents credit in Chemistry, but desiring a more rigorous course than the normal Regents level course. College level laboratory exercises and material will be covered. The major units will include atomic structure, bonding, stoichiometry, thermodynamics, kinetics, equilibrium, acids and bases, electrochemistry, and an introduction to organic chemistry. Laboratory reports, homework, tests, a final, and the Regents will be required.

***Note: Students who successfully complete this course will earn 8 credits from the TC3 Concurrent Enrollment Program.**

Physics Regents

40 Weeks, 1 Credit

Prerequisite: Average to above average performance in two previous Regents Sciences, completion of Algebra and Geometry Regents or permission of instructor.

This course presents a modern view of Physics with the major emphasis placed on the fundamental concepts underlying the basic science. Topics studied are mechanics, energy, wave phenomena, electricity and magnetism, modern physics, and motion in a plane. The underlying themes of the course are problem solving and the development and application of skills, particularly Math, needed to solve problems. Class work is reinforced through laboratory experiences.

***Note: Laboratory exercises representing at least 30 lab periods are accompanied by satisfactorily written reports are required for Regents exam eligibility. Proficiency in seven laboratory skills is also required for exam eligibility.**

2012-2013 Program of Studies

Physics Honors

40 Weeks, 1 Credit/4 College Credits

Prerequisite: 90 or above on each of two Science Regents exams and two Math Regents exams.

Students are expected to demonstrate their qualifications as an honor student and must maintain an average of 85% or higher to remain in the course.

This course will cover the regents Physics curriculum as well as other topics at an advanced level. The pace will be more rapid than that of the Regents Physics course and will include more complex laboratory assignments. The course will focus on problem solving, skills development, applications, and error analysis. Students are required to complete all assignments including written laboratory reports, the Regents exam, a midterm, and a final exam.

***Note: Students who successfully complete this course will earn 4 credits from the TC3 Concurrent Enrollment Program.**

Physics Applications

40 Weeks, 1 Credit

Prerequisite: Successful completion of one previous Science and Math course is required. Math skills essential for success: decimals, exponents, algebra, and basic trigonometry.

This course is designed for the student who is planning to attend technical school, or the student who is planning to continue his/her education at a two year school. Core areas of study include motion, sound and light, and electricity and magnetism. Optional topics include atomic and nuclear physics, simple machines, fluids, and heat.

NON LAB ELECTIVES

Prerequisite: Successful completion of both Physical Science Core course and a Living Environment Biology core course.

Animal Science

20 Weeks, ½ Credit

Do you like animals? This course will include selection, care, and management of animals; health care, nutrition, and breeding and genetics of both large and small animals. The livestock and pet care industry is a large and growing source of interesting occupations including veterinarians, research technicians, and business owners.

Astronomy

20 Weeks, ½ Credit

This is an introductory course in Astronomy designed for students with an interest in the basic physical principles governing the universe. The course will include the history of man's explorations of space and the current theories of the formation and evolution of stars, galaxies, and the universe itself. Course requirements will include exams, current event reports, class activities and a final exam.

2012-2013 Program of Studies

Forensic Science

20 Weeks, ½ Credit

This course is a course designed for students interested in enhancing their observation and deductive reasoning skills. Students will be engaged in problem solving through inquiry based and long-term investigative methods; with an emphasis placed on these specialized areas of science. Students will view historical development of scientific research and analyze case studies. This course hopes to use this class as an opportunity to tap into some of our local resources including, but not limited to the Materials Science Department at Cornell University, current research projects at SUNY Cortland and Cornell, and the pathology and investigative department of our State Police Department and Cornell's Veterinary School.

Natural Disasters

20 Weeks, ½ Credit

Prerequisite: Juniors or Senior status that have successfully completed Earth Science only.

Students will gain a better understanding of the natural world around us and the natural processes that affect our everyday lives. The course will cover a multitude of topics centering around natural events that have disastrous consequences for life on Earth. Some examples of natural events discussed in this course will include, but are not limited to, Earthquakes, Volcanic Eruptions, Hurricanes, Tornadoes, Floods, and Landslides. We will investigate the science behind recent and past events and relate them to human impacts worldwide.

Plant Science/Landscaping

20 Weeks, ½ Credit

Students have the opportunity to become aware of the vast field of plant science in this course. We will explore plant identification, reproduction, growth and growth regulators, pests and their control, floral design, soil management, and propagation techniques. We will grow our own plants in the greenhouse and bring out your artistic talent with landscape design and computer assisted planning. Actual installation and maintenance of a landscape planting will add to your learning.

Geology

20 Weeks, ½ Credit

Prerequisite: Successful completion of Physical Setting: Earth Science and Living Environment

Preferred Pre-requisite: Mastery level performance in Regents Earth Science or instructor permission

The course will use local geology for the basis of study in the areas:

- Landscapes and Mapping
- Forces Shaping the Land
- The Rocks Beneath Us
- Building Up the Land
- Learning About the Past from The Land

Because of the connections with local geology, each unit of study will involve a fieldwork component. A final project will involve student research of a specific aspect of our local geology and its relation to the course.

2012-2013 Program of Studies

Human Anatomy and Physiology

20 Weeks, ½ Credit

Preferred Pre-requisite: Biology and Chemistry

This course will be a challenging course exploring the intricate details of the human anatomy. Students will take an in-depth look at human health and nutrition. Students will investigate physiological processes and human disease. Although not a requirement, students should have taken Biology and Chemistry.

Current Issues in Science

20 Weeks, ½ Credit

This course is designed to provide students with a basic grasp of the scientific principles necessary to understand current scientific issues. Potential topics include stem cell research, cloning, transgenic organisms, global diseases (chronic wasting, avian influenza, AIDS), natural disasters, nuclear waste disposal and development of alternative energy sources. Students will be asked to help identify topics of interest, and will be required to write current event reports.

Meteorology

20 Weeks, ½ Credit

This course is designed for those who want a better understanding of the weather and how it is changing. Students will start with the history of weather prediction and end with the current advances in weather technology. Sections of the course will include: history, weather instruments, mapping, predictions, storms, climate and future weather. Emphasis will be on man's role in not only predicting the weather but also how we have changed our climate. Students will produce a daily weather forecast by the end of the semester.

Senior Thesis

40 Weeks, 1 Credit

Prerequisite: Concurrent enrollment in Regents or Honors Physics or AP Biology

Grade Level: College bound Seniors only

This course is designed for Seniors seeking an opportunity to conduct individual scientific research. Students will be paired with a college research scientist who will act as a mentor, allowing students to design and carry out an independent research project. The research project will be presented in a 20-page research paper and will culminate with a presentation in front of peers, parents, teachers, mentors and fellow research students.

ESF in the High School – Global Environment (EFB120)

40 Weeks, 1 Credit/3 College Credit/ESF Fee \$ 200 or \$ 75 with demonstrated financial need

Prerequisite: Successfully completed NYS Regents Earth Science, NYS Regents Biology, successfully completed or be concurrently enrolled in NYS Regents Chemistry

Global Environment (EFB 120, 3 college credits) Key environmental science themes and critical thinking skills form the basis for classroom and experiential learning activities. Global Environment's interdisciplinary approach reflects our enduring belief that all students, regardless of their specific college and career paths, will benefit from an understanding of the linkages among human social systems and biophysical systems.

Students explore the relationships between their local rural, urban, and suburban communities and the broad global context of environmental change. Opportunities abound for including course topics based on available local and regional resources as well as teacher interests, expertise, and experiences. Ultimately, we seek to develop students and citizens who have a solid understanding of science and a sense of wonder and appreciation for the Earth as a system.

2012-2013 Program of Studies

ESF in the High School – Global Environment (continued)

EFB 120 is a full year one credit course. Classes have opportunities for day field trips to ESF's main campus, regional campuses, as well as in-school presentations and demonstrations by ESF faculty, staff and students.

College credit is available with a fee payable to ESF.

SUMMER COURSE OFFERINGS

Marine Science

1 Week, ½ Credit – Summer

Prerequisite: Successful completion of Regents or Honors Biology

This course, held during the summer months, is open to highly motivated 9th, 10th, and 11th grade students. Included in the course are intensive studies of marine life through laboratory and field work. Applications and selection take place during the spring of the year. The site is a field station in Long Island. A written exam may be required upon return to Homer.

Adirondack Field Studies

1 Week, ½ Credit – Summer

Prerequisite: Successful completion of Regents or Honors Biology or permission from Instructor

This course, held during the summer months, is open to 9th, 10th, and 11th grade students with high interest in the biological sciences. Included in the course are intensive studies of aquatic and terrestrial environments. Applications and selection take place during the spring. This is a rigorous course with a final project required on site.

SOCIAL STUDIES

The Social Studies Program has been developed to enable students to better understand the world they live in and the events that have shaped their lives. In order to attain these goals a four-year mandated curriculum is offered.

REQUIRED COURSES

Global Studies I

Grade 9

40 Weeks, 1 Credit

Prerequisite: Social Studies 8

This course will be a chronological examination of world cultures, physical setting, and world history. The areas to be studied will include the following:

Unit I: *Ancient World Civilizations and Religions (4000 bcd – 500 ce)*

Early Peoples and River Civilizations, Classical Civilizations, Rise and Fall of Great Empires, and Emergence and Spread of Belief Systems

Unit II: *Expanding Zones of Exchange (500 – 1200 ce)*

Gupta Empire, Tang and Song Dynasties, Byzantine Empire, Islamic Civilization, Medieval Europe, and the Crusades

Unit III: *Global Interactions (1200 – 1500 ce)*

Early Japan and Feudalism; Mongols and Their Impacts; Global Trade and Interactions, Resurgence of Europe, and African Civilizations

Unit IV: *The First Global Age (1450 – 1770 ce)*

Mesoamerican Civilizations, Ming Dynasty, Ottoman Empire, Explorations, Encounters, Imperialism, Absolutism and the Puritan Revolution

Honors Global Studies

Grade 9

40 Weeks, 1 Credit

Prerequisite: Recommendation of 8th Grade Social Studies Teacher based on a 90 or higher final average in seventh or eighth grade social studies classes.

This course will prepare students to take AP World History during their 10th grade year. The first 40% of the AP World curriculum will be covered during the year along with devoting considerable time to the critical evaluation of primary and secondary sources, analysis of historiography (the principles, theories, or methodology of scholarly historical research and presentation) and inquiry into global connections that have shaped our present world. A special emphasis will be given to historical writing through essay and document-based questions (DBQ). The content covered during this year will mirror the content curriculum of the 9th grade Global I course and meet that requirement.

2012-2013 Program of Studies

Global Studies II

Grade 10

40 Weeks, 1 Credit

Prerequisite: Global Studies I

This course will be a chronological examination of world cultures, physical setting, and world history. All students will be required to take a two-year cumulative state examination as a requirement for graduation. The areas to be studied will include the following:

Unit I: *Absolution to Revolution (1500 – 1900 ce)*

Absolute Monarchs in Europe, Enlightenment and Revolution, French Revolution and Napoleon, Nationalist Revolutions Sweep the West

Unit II: *Industrialism and the Race for Empire (1700 – 1914)*

The Industrial Revolution, Age of Democracy and Progress, Age of Imperialism

Unit III: *The World at War (1900 – 1945)*

The Great War, Revolution and Nationalism, Years of Crisis, World War II

Unit IV: *Perspectives on the Present (1945 – Present)*

Restructuring the Postwar World, Colonies Become New Nations, Struggles for Democracy, Global Independence

United States History and Government

Grade 11

40 Weeks, 1 Credit

Prerequisite: Global Studies II

A survey course covering the major themes and events in American History and Government. Emphasis will be placed upon cultural heritage, political systems, and economic history. Foreign relations and the Constitution will also be major topics. All students will be required to take a state examination at the conclusion of the course. Passing the examination is a requirement for graduation.

Participation in Government

Grade 12

20 Weeks, ½ Credit

Prerequisite: US History & Government

This course will study the American Governmental system at all levels: Local, State and Federal. The studies will emphasize the role of the individual in government. Students will examine how government policies are established and what they can do to have their voice heard in the process. They will be required to complete five hours of community projects. Passing this course is a requirement for graduation.

Introduction to Economics

Grade 12

20 Weeks, ½ Credit

Prerequisite: US History & Government

This course will examine economics from a world-wide, national, local and personal aspect. It will emphasize the role of economic conditions and policies upon the individual. Students will be exposed to introductory level microeconomic and macroeconomic principals. Additionally, an emphasis will be placed on personal finance literacy. Completion of this course allows the student to meet the 12th grade Economics requirement.

2012-2013 Program of Studies

Entrepreneurial Economics 12

Grade 12

20 Weeks, ½ Credit

This one-semester course, which fulfills all NYSED requirements for General Economics course credit, is based on two-major projects:

1. Creation of Monopoly games for various economic systems (mercantilism, market socialism, totalitarian, socialism, fascism, communism, and traditionalism) by groups of students.
2. Creation of a business well-suited to either the Cortland or Homer downtown area. The businesses should be local, green, and sustainable as possible.

The course demands creativity of various types, the willingness to work on extended projects with the same groups of students, and acceptance of projects-based grading.

Completion of this course allows the student to meet the 12th grade Economics requirement.

Honors Economics

Grade 11 and 12

20 Weeks, ½ Credit

Prerequisite: Recommendation 10th or 11th Grade Teacher

This course provides an advanced introduction into macroeconomics providing students with a thorough understanding of the principles of economics that apply to an economic system as a whole. The course places particular emphasis on the study of national income and price-level determination, and also develops students' familiarity with economic performance measures, the financial sector, stabilization policies, economic growth, and international economics. Additionally, an advanced introduction to microeconomics will be explored providing students with a thorough understanding of the principles of economics that apply to the functions of individual decision makers, both consumers and producers, within the economic system. It places primary emphasis on the nature and functions of product markets, and includes the study of factor markets and of the role of government in promoting greater efficiency and equity in the economy.

Completion of this course allows the student to meet the 12th grade Economics requirement.

ELECTIVE COURSE OFFERINGS

You and The Law

40 Weeks, 1 Credit

Prerequisite: Global Studies II

Grade: 12

This course is a guide to law that is of practical use in everyday life. The course is designed to provide you with an understanding of your legal rights and responsibilities, knowledge of everyday legal problems, and the ability to analyze, evaluate, and in some situations resolve legal disputes. The topics covered include criminal law, consumer law, family law, housing law, and the laws associated with current events.

2012-2013 Program of Studies

American Military History I

Guerilla Warfare and Counterinsurgency

20 Weeks, ½ Credit – Fall Semester only

Grade Level: 11 and 12

This course explores Americans fighting in guerilla wars. The course covers selected conflicts beginning with the French & Indian War, and includes the current conflicts in Iraq and Afghanistan. The course centers on study of films, current and historical articles, and class discussion. Each student will read three or four books on guerilla warfare during the semester.

American Military History II

Conventional Warfare

20 Weeks, ½ Credit – Spring Semester only

Grade Level: 11 and 12

This course covers American Infantry, naval, and air units in combat during selected major conflicts in which the United States has participated. The Civil War, World Wars I and II, the Korean Conflict, and the first Gulf War are studied. The course centers on study of films, current and historical articles, and class discussion. Each student will read four books on conventional warfare during the semester.

Great Issues in Society I

20 Weeks, ½ Credit – Fall Semester only

Grade Level: 11 and 12

This course is designed to investigate the multiple perspectives to major issues in society such as abortion, the world population explosion, genetic engineering, eugenics and human rights. By using and developing research skills, debate tactics and open and free discussion, you will analyze all sides of the issues plaguing society while advancing the skills necessary to be successful in advanced education and the workplace.

Great Issues in Society II

20 Weeks, ½ Credit – Spring Semester only

Grade Level: 11 and 12

This course is designed to continue the investigation into the multiple perspectives on major issues in society. This course will cover such issues as censorship, crime and punishment (including the death penalty), racism, social discrimination and poverty. By using and developing research skills, debate tactics and open and free discussion, you will analyze all sides of the issues plaguing society while advancing the skills necessary to be successful in advanced education and the workplace.

AP OFFERINGS

ADVANCED PLACEMENT RECOMMENDATIONS

These college level courses are designed to give students an opportunity to take demanding courses for college credit while attending high school. The College Board curricula are extremely rigorous and required a serious commitment of time and purpose.

We recommend the following:

- A minimum combined class average of 90 for Global Studies I and II and American History, where applicable
- A minimum combined Regents test average of 85 for Global Studies I and II and American History, where applicable
- The recommendation of previous Social Studies teacher(s)
- It is expected that students will maintain at least an 80 average in this course

2012-2013 Program of Studies

*Students obtain college credit by scoring successfully on the AP exam in the Spring. Students who fall below an 80 average in the course, will have a conference with the AP teacher and Guidance Counselor to counsel the student on the best course of action. Our goal is to balance the integrity of our rigorous curricula with the desire of students to take challenging courses.

AP American History

40 Weeks, 1 Credit

This course is designed for students wishing to take the Advanced Placement American History test given each May. Those who successfully complete the test may receive college credit for American History, thereby removing the requirement for college. The course has students implement the knowledge of American History to interpret historical materials analytically and to arrive at conclusions on the basis of an informed judgment. Periodic oral reports, exams, short research papers, outside readings, and class participation are all a part of the grading procedure.

AP European History

40 Weeks, 1 Credit

Pre-requisites: Successful completion of Regents Global History & Geography I, Recommendation of Global I Instructor, Written essay, substantial summer assignments

This course is designed primarily for self-motivated 10th grade students as a highly enriched replacement for Regents Global History & Geography II. Juniors and Seniors are welcome to study this course as an elective. The syllabus covers Europe from the Late Middle Ages (c. 1300) to the fall of the Berlin Wall and the USSR (1990) in great breadth and considerable depth. Emphasis is placed on individual, independent reading and writing and on class participation. All students completing this course are expected to sit for the College Board AP European History Examination in early May. The course's final examination is the Global History & Geography Regents exam.

AP Government

40 Weeks, 1 Credit

Grade 12

This course is designed to prepare students to take both the AP American Government and Politics and the AP Comparative Government exams. Additionally, it will satisfy the state mandated fourth year of government. The course consists of the following two:

- The AP course in United States Government and Politics introduces students to an analytical perspective on government and politics in the United States. This course includes both the study of general concepts used to interpret U.S. government and politics and the analysis of specific examples. It also requires familiarity with the various institutions, groups, beliefs, and ideas that constitute U.S. government and politics.
- The AP course in Comparative Government and Politics introduces students to the fundamental concepts used by political scientists to study the processes and outcomes of politics in a variety of country settings. In approaching the study of politics with this perspective, students will gain a better understanding of both the similarities and differences that exist among modern political systems. The Advanced Placement curriculum focuses on six countries: Great Britain, Russia, China, Mexico, Nigeria, and Iran.

TECHNOLOGY EDUCATION

Homer High School's Technology Education courses provide a broad base of skills that will prepare the student for a variety of careers. With a focused sequence in Technology Education, students have the means to link their years in high school with those in post-secondary educational programs or employment. High paying careers in the fields of engineering design, architecture, construction, communications, and computer-aided design are all obtainable with the right academic preparation and the hands-on skills offered through a Technology Education sequence.

Design and Drawing for Production (DDP)

40 Weeks, 1 Credit

**NOTE: This course satisfies the Art/Music and Technology requirement*

DDP is an introductory course, which develops student problem-solving skills, with emphasis placed upon the concept of developing a digital 3-D model or actual prototype of the students' design. Students focus on the application design tools provided by the state-of-the-art computer hardware and software – including *AutoCAD LT*, *Google SketchUp* and *SoftPlan*, among others. The course will emphasize the design development process of products and how a model of that product is produced, analyzed and evaluated, using a Computer Aided Design System. Students will learn to communicate their solutions to creative problem-solving challenges. Career planning and self-assessment are an integral part of this course.

Career and Finance Management

20 Weeks, ½ Credit

Through research and latest statistical data students will be able to gain knowledge and understanding of a variety of career choices and an understanding of the working world around them. Additional, students will balance a monthly budget and prepare their own tax documents based on a certain career choice. Also, students will be introduced to the job interview process by interviewing for a certain career choice. Students attending OCM BOCES Careers and Technical Education will complete this course at BOCES.

Architectural Design I (Formerly known as Construction Drafting)

40 Weeks, 1 Credit

Pre-requisite: DDP preferred

Students learn the basics of residential architectural design. The primary emphasis will be to use computer software to develop CAD drawings that are used in the construction and architectural design industries. During the course, students will design several homes and produce a complete set of blueprints including floor plans, elevations, plot plans as well as model buildings. Students will learn to communicate the concepts behind their designs as well as “critique” the designs produced by others. The course culminates in each student designing their own sustainable “dream house.” This course may be used for partial fulfillment of the Fine Arts requirement for graduation as part of a sequence of courses.

Architectural Design II (Formerly known as Construction Drafting II)

40 Weeks, 1 Credit

Pre-requisite: Architectural Design I required

The advanced architecture student will further enhance his or her experience and skill set by creating working drawings potentially for actual clients as well as hypothetical design scenarios. An understanding of historical architectural styles and contemporary construction techniques will be explored. An emphasis is on environmentally responsible design also referred to as “sustainable” or “green” design.

2012-2013 Program of Studies

CADD – Computer Aided Design and Drafting (Dual Credit with TC3 available)

40 Weeks, 1 Credit (2 College Credits)

Pre-requisite: Successful completion of DDP with permission from Instructor

This course will concentrate on concepts learned in DDP and apply the concepts on the computer. The students will learn to draw gears, gaskets, molds, and a variety of other mechanical devices on the computer. This course uses the TC3 syllabus and brings a college level course directly into the high school. AutoCAD is the standard today in industry. This course is for students interested in Engineering, Drawing, Designing, Interior Decorating, Architecture and construction.

Application in Technology

40 Weeks, 1 Credit

Pre-requisite: 80 or better average with permission from Instructor

Applications in Technology is a 40 week course designed to introduce students to various applications in different technological fields. Students will be introduced to a variety of technological applications which might include video introduction, alternative energy solutions, transportation systems, manufacturing, industrial design, and other relevant technological concepts. Each session will focus on a different application in technology. Students will work together in groups in a hands-on laboratory setting, based on the selected technological application.

Principles of Engineering

40 Weeks, 1 Credit

Pre-requisite: DDP

Principles of Engineering is a broad-based survey course designed to help students understand the field of engineering and engineering technology and its career possibilities. Students will develop engineering problem-solving skills that are involved in post-secondary education programs and engineering careers. They will explore various engineering systems and manufacturing processes. They will also learn how engineers' address concerns about the social and political consequences of technological change. If you've wondered, "Is a career in engineering for me?" you should take this course as an exploratory foundation.

Independent Study

½ or 1 Credit

Approved by Instructor

Motivated students may wish to propose an independent area of study suited to their specific needs and aspirations. Instructor approval is required along with guidance counselor recommendation.

CAREERS AND TECHNICAL EDUCATION COURSE OFFERINGS

Careers and Technical Education (CTE) is the learning of knowledge and skills necessary to become a skilled worker in a chosen area of occupation. No matter how you plan to earn a living, all jobs require some special knowledge and skills. Some students obtain this training after high school in college, some in apprenticeship programs and some in high school at the OCM BOCES McEvoy Educational Center.

You should plan on attending during your Junior and/or Senior years of high school. Most programs will require you to purchase a uniform, other necessary items are provided.

Auto Collision Technology

Two years/3 Credits per year

This program focuses on collision repair skills for national certification. Today is an exciting time for a entering the world of automotive body repair. Today's auto body technician is a skilled professional with expertise in many areas. All areas of auto collision repair are covered in this two-year program, including: auto body materials, color matching, custom painting, paint products, hand and power tools, basic measurement skills, high-strength steels, plastic and composite part repair. Greater emphasis on ASE certification and I-Car standards in the auto collision technology class involves students in a hands-on training program for a career in the Auto Collision profession.

Auto Technology NATEF

Two years/3 Credits per year

The McEvoy Educational Campus and OCM BOCES are proud to be a "Program of Excellence" supporting NATEF standards. (The National Automotive Technicians Education Foundation (**NATEF**) was created by the Association for Career and Technical Education formally (AVA) and the Industry Planning Council (IPC). Within a two-year course of study at OCM BOCES four mandatory NATEF modules are covered: Brakes (Junior Year), Suspension/Steering (Junior Year), Electrical/Electronic Systems (Senior Year), and Engine Performance (Senior Year). Automotive students will be responsible for NATEF classroom theory, and NATEF applied communications, mathematics, and science. Students will have the opportunity to complete over 200 NATEF shop labs within the four areas. Some labs may be performed at local repair facilities. Students are responsible for professional NATEF work ethics and safety.

Building Trades

Two years/3 Credits per year

The Building Trades program stresses the development of skills in rough carpentry, masonry and concrete work, residential electricity, plumbing and heating, finish carpentry, and roofing and siding. Students in this program gain valuable experiences in all phases of residential construction. In addition, students have the opportunity to specialize in the construction trade area of their choice.

Computer Technology Program

Two years/3 Credits per year

1 Math or Science credit per year

Do you like computers? How about making machines work? Or figuring out puzzles? Then Computer Technology, the fastest growing career, may be for you. This program provides opportunity for certification through CISCO. The first year of the program deals with repair and rebuilding of computers. The IT Essentials course is divided into two sections, the first covers core competencies in the latest hardware and software technologies, with emphasis on information

2012-2013 Program of Studies

Computer Technology Program (continued)

security skills, safety and environmental issues and 21st Century Skills. The second is hands on and lab based which covers IT technician, Remote Support Technician and Bench Technician. The second year prepares a student to be a support specialist in networking. Internships in the second year will also provide students with the business aspect of computer technology. This fast pace program in a constant changing technology world will make any student a viable computer technician for any business/career path. Students may elect to receive 3 college credits from TC3 for each year of the program (total of 6 credits) by successfully completing the TC3 concurrent enrollment requirements. It will provide the foundation necessary to find employment in the field or to achieve advanced standing in a rigorous college program.

Cosmetology – Appearance Enhancement Profession

Two years/3 Credits per year

Appearance Enhancement – The OCM BOCES Cosmetology Program provides training in areas of hair, skin, and nail analysis. Product knowledge, technical application and procedures are taught in the areas of shampooing, massage, styling, shaping, coloring, and hair restructuring. Elective areas include esthetics and nail specialists. Curriculum is designed to provide 1000 hours of interactive instruction and allows practice and theory in individualized and group settings. Those students who completed 1000 hours of training are eligible to take the written and practical examinations to obtain a New York State license.

Criminal Justice

Two years/3 Credits per year

YEAR ONE

The first year of instruction focuses on traffic, criminal and civil law, arrest and court procedures, report writing and communication skills. Examples of subjects taught include patrol techniques, self defense, military police, security, fingerprinting, civil rights, and current crime scenarios. Time is split between lecture, physical activities, field trips, and interaction with special guests.

YEAR TWO

The second year is more intense and career centered with focus on criminal investigation, and police-community relations. Subjects include forensics, accident and crime scene reconstruction, investigative case management, first aid and CPR, digital photography, video production, life skills, and career development. Time is split between classroom discussion, team-based labs, and hands-on field activities. This program of study is an excellent tool for preparation for college, military service, or direct employment in law enforcement or security fields.

Culinary Arts

Two years/3 Credits per year

First year students in Culinary Arts will concentrate on food service careers, sanitation, safety, tools and equipment, applied math, basic arts of baking, cold food, and food preparation stations. Emphasis is on instructional cooking and preparation skills in food service area. Second year students will complete modules not completed the first year and explore careers in related areas of: restaurant management, institutional facilities, franchise management, grocery purveyors and suppliers, public health department, and facilities layout and design. They will also acquire certification in ProStart and ServSafe sanitation. Project based portfolios will finalize second year. Communication skills both written and verbal are emphasized.

GRAPHIC COMMUNICATION

Two years/3 Credits per year

Graphic Communications encompasses many areas of study in Graphic/Computer Design. The Design portion is centered on computer-generated projects. Adobe Photoshop Macromedia, I Movie, PageMaker, and Freehand software offers students opportunities to digitally design and illustrates real life and simulated projects. These projects include publications, book covers, logos, flyers, posters, WebPages advertisements, and other commercial applications. There is some photography in this course as well. 3 credits earned per year.

Health Occupations Technology (Pediatrics to Geriatrics)

Two years/3 Credits per year

This course is offered to students who would like to explore options working with the elderly in the health care setting. Students will also have the chance to explore careers within the health care field. Some of these careers could include nursing, nutrition, and physical and speech therapy. The second year focuses on Medical Terminology through a systems based approach. The second year also offers the student a chance to receive 3 credits from TC3 for a Medical Terminology class. At the end of the 2nd year, students who have accrued enough clinical hours will sit for the NYS CNA certification test. This test is not required to pass the course but is an opportunity to be job ready upon graduation. This class is an excellent preparation for students planning to pursue a career in allied health.

New Visions Health Careers

One Year – Seniors Only

Application and Interview required

New Vision Environmental Science Careers is a total immersion experience in the field of health care. Students explore a wide variety of career opportunities within the hospital and at some health facilities in the community. The students spend 3 to 4 hours every school day their senior year at Cortland Memorial Hospital. Cortland Memorial Hospital is the call sponsor. Other medical professionals in the community also offer rotation sites for interested students. **The program offers four credits toward high school graduation which may include Anatomy and Physiology, English 12, Government/Economics, and Health Careers. These subjects are integrated together under the common theme of health care.**

Evaluation in the program consists of daily journal entries, essays, technical writing, textbook questions, oral presentations, group projects, quizzes (both oral and written), tests (both written and oral), and rotation packets. All assignments are interdisciplinary so that the students can integrate the different subject area skills together.

Some of the fields that a New Vision student can explore are Physical Therapy/Occupational therapy, Emergency Medicine, Cardiology, Radiology, Nuclear Medicine, Ultrasound, CT Scans, MRI, Recreational Therapy, Respiratory Therapy, Nursing (Maternity, ICU, Pediatrics, Geriatrics, and General), Clinical Laboratory, Nutrition, Pharmacy, Bio-Medical engineering, and others depending upon individual student interest.

2012-2013 Program of Studies

New Visions – Environmental Careers

One Year – Seniors Only

Application and Interview required

New Vision Environmental Science Careers is a total immersion experience in the field of Environmental Science. The New Visions students will spend three hours of their school day, as seniors, at the Tunison Laboratory of Aquatic science. The class is sponsored by the United States Geological Survey at 3057 Gracie Road in Cortlandville, New York.

The program consists of modules of instruction that explore specific areas of Environmental Science. Units include Forestry, Fish and Wildlife, Environmental Issues, Soil and Water, Land use and Outdoor Recreation. Class time is divided between indoor instruction and outdoor application with the majority to learning being accomplished using the 220 acres of forest surrounding the class location. Other activities that contribute to course curriculum are overnight camping, backpacking, canoeing, cross-country skiing, snowshoeing, fishing, and several college visitations. The curriculum allows for up to four credits toward graduation: English, Science, Government and Economics.

Evaluation is portfolio based on each of the six required modules. The student's knowledge and skill is measured using authentic assessment. A daily journal, book reports, essays, poems, interviews, and a research project are part of the student portfolio, with a portfolio developed for each module. The research findings are presented to a panel of educators in a formal symposium style, and the evaluators measure the student outcomes.

Data Analysis and Statistics – Business Math Course

1 Credit

The Data Analysis and Statistics/Business Math Program stress content and the development of skills in Mathematics, as they will apply to the workforce preparation area selected. Students in this program learn enhanced problem solving, review skills and gain valuable experiences in related technical applications of mathematical skills. Students may elect to receive college credit from TC3 in Business Math by successfully completing the TC3 final exam. The Data Analysis and Statistics or Business Math Course is a requirement for all students.

Scientific Inquiry and Research

1 Credit

The Scientific Inquiry and Research Course stress content and the development of skills in Science as it applies to the work force preparation program selected by the student. Students use various applications of scientific methods, skills, and gain valuable experiences in related technical applications of Science. The Scientific Inquiry and Research course is a requirement for all students.

General Education Development (GED)

High School Equivalency Diploma Program

Half Day – AM or PM

Parent/Student Interview Required

This course will offer a uniquely independent study in preparation for the GED test. Students will study “the basics” in Math, Social Studies, Science, reading, and writing (grammar and composition). When the student takes the test for the diploma, it is dependent upon student self-motivation and initiative.

2012-2013 Program of Studies

Career and Financial Management

1 Credit

This course, which replaces the Introduction to Occupations course, is required as part of every career and technical education program. It will provide the student with the opportunity to learn about the features of our economy, explore a variety of careers, and learn the skills and competencies needed for success in the workplace to begin to become financially literate. It contains five topics: Business Systems and Economics, Career Planning, the Career Selection Process, Career Success and Financial Literacy.

Career Exploration Program

1 Credit Each – 10 Weeks

Hospitality, child care, small engines, security, basic carpentry, interview techniques, budgeting, resume writing, introductory computer skills, and more. If you aren't sure which career is for you then this program is it. You will learn a little about a wide variety of occupations and how to pursue them. For further information: Contact OCM BOCES at (607)758-5260.

TC-3 DUAL CONCURRENT ENROLLMENT PROGRAM

TC3 offers several Dual Credit courses to Homer High School students at no cost. Our teachers and curriculum have been approved by TC3 instructors and are considered “adjuncts,” teaching the same material, with the same textbooks, and to the same college transcript. As part of SUNY, TC3’s credits are highly transferrable to colleges and universities around the nation.

The following courses are approved for the 2011-2012 school year:

HOMER HIGH SCHOOL COURSE	TC-3 COURSE	CREDITS
Chemistry Honors	CHEM 101: Principles of Chemistry I	4
Chemistry Honors	CHEM 102: Principles of Chemistry II	4
Biology AP	BIO 104: General Biology I	4
Biology AP	BIO 105: General Biology II	4
Physics Honors	PHSC 104: General Physics I	4
Pre-Calculus II	MATH 135	3
Calculus I	MATH 201	4
CADD	DRAF 120: Intro to CADD	2

For more information go to: tc3.edu and click on CollegeNow, Dual Credit, and In School

AP- ADVANCED PLACEMENT PROGRAM

AP is a rigorous academic program that provides students with the opportunity to take college-level course work and exams while in high school. It provides motivated and academically prepared students with the opportunity to earn college credit or placement. AP is accepted by more than 3,600 colleges and universities worldwide for college credit, advanced placement, or both on the basis of successful AP Exam grades. Each AP course has a corresponding exam that schools worldwide administer in May. The 2011 exam fee is \$80 (fee waivers are available).

The following AP exams are approved for administration:

1. United States Government and Politics
2. English Literature
3. United States History
4. European History
5. Biology

For more information about AP courses and exams:

www.apcentral.collegeboard.com/coursehomepages

CLEP – COLLEGE LEVEL EXAMINATION PROGRAM

CLEP is another rigorous College Board program that allows students to demonstrate their mastery of college-level material in introductory subjects and earn college credit. More than 2,900 colleges and universities have CLEP credit and/or placement policies. Students on Level V Foreign Language will prepare for the CLEP exam.

For more information about AP courses and exams:

www.collegeboard/clep