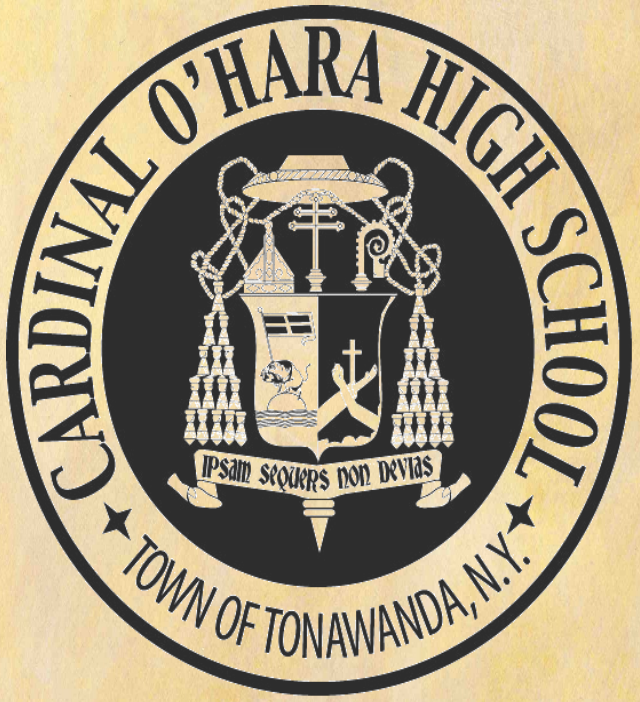
COURSE CATALOG
&
GRADING POLICY

In the Franciscan Tradition



CARDINAL O'HARA HIGH SCHOOL

39 O'Hara Road
Tonawanda, New York 14150
716-695-2600
716-692-8697 Fax

Mission Statement

In the spirit of St. Francis, the mission of Cardinal O'Hara High School is to provide a holistic Catholic-Christian environment that addresses the uniqueness of the individual in a total community of learners.

Diversity Statement

Cardinal O'Hara High School, as a Franciscan community, seeks to provide a setting for students to grow in faith, love, and hope by serving the poor and working for social justice. As a community of learners, we are strongly committed to the belief that multi-cultural understanding transcends time and place. It transcends trends in technology, educational styles, political correctness and ascends to the level of fundamental human principles of dignity and the understanding necessary for the survival of humanity itself. To this end, Cardinal O'Hara High School actively seeks to educate students to live in a globalized world through celebration and understanding of the world's many cultures and traditions. It therefore becomes incumbent upon us, as a school, to actively pursue academic excellence through including and integrating students who represent all different groups. Through this endeavor, we hope to follow the example of Christ, as interpreted through St. Francis, of serving the poor and being the voice of those who cannot speak for themselves.

WELCOME

The faculty and staff of Cardinal O'Hara High School welcome you to our school community. Our educational opportunities offer a variety of courses ranging from Electives to Advanced Placement to College Credit Classes. We look forward to helping you grow intellectually, spiritually and become leaders in our community.

Cardinal O' Hara has, through the years, developed customs, traditions and procedures designed to serve the best interests of all our students. Essentially these procedures are:

*Repeat yourself with confidence and pride
*Treat people with dignity and respect
*Give every learning opportunity your best effort
*To get respect, you must respect others
*Take ownership of your actions

Be assured that the faculty and staff will make every effort to fulfill their responsibility to you and the community we serve. We, in turn, expect your cooperation and support in maintaining the standards of excellence that have led you to choose Cardinal O'Hara High School.

Administration and Directors

Mr. Michael Rizzo
Board President
Mrs. Laura Osinski
Principal
Mr. Ted Luckett
Associate Principal
Mr. Brian Lamping
Athletic Director
Mrs. Brigid Knott
Chief Financial Officer
Mr. Michael Baumann
Chief Operating Officer
Kristen Scholz
Advancement Director
Mr. Thomas Wilkie
Director of Admissions
Mr. Mark Huoh
Technology Coordinator

Department Chairs

Ms. Joanne Pera
English
Mrs. Cheryl Steingasser
Foreign Language
Mr. John Dennis
Social Studies
Mr. Thomas Appenheimer
Religion
Mr. Collin Sperrazza
Fine Arts
Mr. Michael Norwood
Science
Mr. Brian Lamping
Business
Ms. Michelle Willard
Guidance Department
Ms. Maria McGrath
Special Education

TABLE OF CONTENTS

Course Guidelines……..page 1-2

Grading Procedures…….page 3

Examinations/Class Ranking Policy ……page 4

Graduation Requirements……page 5-6

Special Information…….....page 7-8

Course Offerings

Technology and Business……..page 9-10

English……...page 11-14

Fine Arts-Visual……..page 14-15

Performing Arts……page 15-17

World Languages Ancient and Modern……page 17-19

Mathematics……page 19-21

Physical Education and Health……page 22-23

Religious Studies……...page 23-24

Science……page 24-28

Social Studies……page 28-29

Erie 1 BOCES Career & Technical Educational....page 30

CARDINAL O'HARA COURSE GUIDELINES

Courses

1. Student schedules consist of required courses and elective courses. Required courses are those that the student must complete in order to graduate from Cardinal O'Hara High School. Electives are those courses that students can choose to take. The School Counselor will meet with your child each year to prepare their schedule for the following school year.
2. When possible, courses are described by the New York State Board of Regents.
3. Courses with an asterisk (*) may not be offered every year.

Cardinal O'Hara High School Courses (Non-Regents courses)

These courses are developed by the Cardinal O'Hara Academic Committee and must be recommended by the school Principal, and then approved by the Board of Trustees. These courses are created in accordance to the guidelines and standards set by the New York State Department of Education. Religion courses are developed following the criteria set forth by the Diocese of Buffalo, New York.

New York State Board of Regents Courses

These courses follow the New York State syllabus, which is developed and approved by the NYS Board of Regents. Students enrolled in Regents courses are required to take the state Regents assessment at the conclusion of the course. Students must demonstrate proficiency in required Regents courses to qualify for graduation. (Please refer to graduation requirements for further details) .

Honors Courses

These courses follow the same New York State syllabus as Regents courses. However, students enrolled in Honors courses are expected to meet additional requirements as determined by their teacher. These courses also require significantly more independent reading and study than other courses. A student may be placed in Honors courses after a thorough review of their academic history and/or a recommendation from their teacher.

Advanced Placement (AP) Courses

The College Entrance Examination Board develops and approves Advanced Placement courses. Advanced Placement courses are designed to provide motivated students with a challenging, extensive, and rewarding curriculum. Students enrolled in an AP course are subject to the prerequisites of each individual course. There is an additional fee for AP examinations.

College Courses

Through an agreement with local colleges, academically prepared students may earn college credits during their junior and senior year of high school. In addition to completing all of their required courses at Cardinal O'Hara, these students may take up to two college courses per semester. The college charges a small tuition fee. The student should contact the college for more detailed information. Students interested in taking a course should meet with their school counselor.

BOCES

Erie 1 BOCES offers a numbers of two-year career and technical skills pro grams available to students in 11th and 12th grades. Students that successfully complete the BOCES program may earn a certificate indicating their achievement along with a total of six (6) high school credits. Students electing to enroll in a BOCES program must complete both years of the program to receive credit and/or certification. Students should also note that attending a BOCES program may require them to return for a fifth year of high school to complete any remaining requirements. This program is not available to all school districts. Parents must submit the Dual Registration form to their District of Residency before June 1st for approval each year. **Transportation is the responsibility of the student or district of residency. Transportation is unavailable through COHS.**

Credits

1. 1/2 unit of credit is awarded upon successful completion of a half-year (semester) course and some courses that meet on alternated days.
2. 1 unit of credit is awarded upon successful completion of a full year course.
3. 6 units of credit are awarded upon successful completion of a BOCES program.
4. All student must take a minimum of 6.50 credits both semesters.

Exams / Assessments

All courses will include a final exam or project. The type of exam will depend on the course requirements and New York State standards. Please refer to section on Examinations/Assessments. Any student who wishes to retake the June Regents exam must first retake the exam in August.

Prerequisites

These are courses and/or assessments that must be met prior to enrollment in select courses. Once a course is scheduled, a student may not drop the course without the school's approval. Requirements for a Regents Diploma or a Regents Exam pre-requisite are the only criteria for further course changes.

GRADING PROCEDURES

Report Cards

Report Cards are mailed out on a quarterly basis (every 10 weeks). The report card provides a detailed summary of each student's academic achievement for that quarter.

Interim Reports

Interim progress reports are available to parents at the end of the 5th, 15th, and 25th weeks of school on the online Parent Portal. These reports are designed to update parents on student progress between quarterly report cards.

Passing / Failing

Most courses are assigned a numeric grade between 0 and 100. A passing grade is 65 or higher. In order for a student to receive credit for a course, their average for that course must be 65 or above. The average is calculated by adding each of the quarterly grades and final exam grade/project, and then dividing the sum by the total number of grades.

Students who are illegally absent from a required Regents or local examination will receive a grade of ZERO for that exam. If student received a failing grade in a core course and/or Regents exam that is needed for a Regents diploma, Summer School will be required. Any exceptions must have the approval of the Principal.

Honor Roll

Academic achievement is the core of Cardinal O'Hara High School and it is the foundation of our school philosophy. Therefore, we place great emphasis on academic success and recognize outstanding students every quarter. Students must meet the following academic requirements in order to be recognized on one of Cardinal O'Hara's Honor Rolls.

High Honors – Students must earn an average of 95% or above.
Honors – Students must earn an average of 90% to 94.99%.
Merit – Students must earn an average of 85% to 89.99%.
Black & Gold – Students must be passing all subjects and show a significant improvement from one report card to the next. Students increasing their cumulative average by 5 point or more will be recognized for this honor.

Summer Reading

Students are required to complete their assigned reading assignment and/or project during the summer. Additional information is available on the Cardinal O'Hara website.

EXAMINATIONS / ASSESSMENTS

Cardinal O'Hara High School

School examinations are given for all non-regents courses. These exams are developed by Cardinal O'Hara teachers and approved by the Principal.

Regents

Students taking Regents courses are required to take the Regents examinations at the conclusion of the course (s) .Students who wish to retake exams for mastery must first utilize the August exam dates before considering the January session. Research and experience show that students perform better in August, as the material is still fresh in their minds. Waiting until January often leads to lower performance due to the longer gap since initial instruction. Students will be required to take the English and Social Studies courses even if they have already achieved mastery on the Regents exam. While we recognize and celebrate their success, we believe that opting out of the full-year course would represent a significant loss in terms of deeper learning, skill development, and academic growth. The curriculum is designed to go far beyond exam preparation, offering rich opportunities for exploration, collaboration, and critical thinking that are essential for long-term success.

Advanced Placement

Advanced Placement exams are offered to students enrolled in selected AP courses. These examinations are developed by the College Entrance Examination Board (CEEB) and require students to exhibit in-depth understanding of course material. Students are scored on a one to five scale, with five being the highest score. Many colleges grant elective credit to students earning a score of three and higher. Please refer to individual course descriptions for specific prerequisites and exam regulations.

Class Rank

Students at each grade level are assigned a class rank as a result of their academic performance in comparison to their classmates. Ranking is not available until senior year. The student with the highest overall average at each grade level is ranked "one" in that class.

Each student's average is determined by calculating the average grade of all the credit bearing courses the student has taken in high school. When determining class rank, courses that are of Regents level and higher are given a weighted value.

The chart below indicates the formula used to calculate the weighted average.

Regents courses	**- Grade earned is multiplied by 1.02**
Honors courses	**- Grade earned is multiplied by 1.03**
Dual College credit courses	**- Grade earned is multiplied by 1.04**
Advanced Placement courses	**- Grade earned is multiplied by 1.05**

GRADUATION REQUIREMENTS**

Students must earn a minimum of 26 credits and meet the following requirements for graduation. Each student's progress will be monitored by the school counselor to ensure that they are on track to graduate.

SPECIAL INFORMATION

Courses	Regents Diploma **Minimum number of credits**	Regents Diploma with Advanced Designation **Minimum number of credits**
English	4	4
Social Studies	4	4
Mathematics	3	3
Science	3	3
Religion	3.5 plus 35 service hours each year	3.5 plus 35 service hours each year
Physical Education	2	2
Health	.5	.5
Languages Other Than English	2	3
Art / Music	1	1
Elective Credits	3.0	2.0
Minimum Number of Credits	**26**	**26**

Students must earn the minimum number of credits in each subject area to qualify for graduation

NEW YORK STATE REGENTS

Assessments Required for Graduation	**Regents	**Regents with Advanced Distinction
English	Yes	Yes
Algebra I	Yes	Yes
Geometry	No	Yes
Algebra 2	No	Yes
Global History and Geography	Yes	Yes
US History and Government	Yes	Yes
Regents Science	Yes	Yes
2nd Regents Science	No	Yes
Languages Other Than English	No	Yes-local exam

Mastery in Math and/or Science: A student meets all the requirements for a Regents diploma with advanced designation AND earns a score of 85 or better on 3 math Regents examinations and/or 3 science Regents examinations

Honors: A student earns a computed average of at least 90 on the Regents examinations applicable to either a Regents diploma or a Regents diploma with advanced designation.

Community Service

In the spirit of the St. Francis, all students are required to complete 35 service hours each year as well as the above stated requirements.

Promotion Guidelines

In order to achieve Senior status, a student must earn eighteen (18) credits, including successful completion of three units in English and three units in Social Studies. To achieve Junior status, a student must earn twelve (12) credits, including successful completion of two units in English and two units in Social Studies. To achieve Sophomore status, a student must earn six (6) credits, including successful completion of one unit in English and one unit in Social Studies.

Repeating a Course

Failure in a course is determined by a final average below 65. The final grade earned in January (for a one semester course) or June may not be changed except for highly unusual circumstances, and then only by recommendation of the teacher and approval by the Principal.

A student may be allowed to repeat a full year course while taking the next course in the same subject field by recommendation of his/her counselor after consulting with the previous year's teacher and the current teacher. Each academic department may have specific procedures for repeating courses. Any exceptions must have the approval of the Principal.

Schedule Change

Student and parents should consult with their school counselor about any schedule concerns/change prior to the end of the first week in July. After July, schedule changes are made only after careful consideration of the student's abilities and/or career aspirations. **Under no circumstances may a student simply stop attending a class or study period.**
If a student, his or her parents, the teachers, and the principal and school counselor agree that a schedule change is needed, an official drop/add form must be completed. A change is not considered final until all parties agreed to the change, and a new schedule has been created.

Dropping a Course

Course selection/schedule is finalized by the end of June each year. A student may not drop a core course in September. Administration has the right to change placement, withdraw courses, or limit the amount of students per section. Administration may make an acceptation on dropping a course depending on the situation within the first three weeks of school. Dropping a course after the date is not permitted. If a dropped in determined after the first three weeks of school, a drop fail may be placed on the student's permanent record. If a course is approved to be dropped based on a special situation, the student is required to replace it with another course. Under no circumstances will a study hall be allowed. All seniors must carry a minimum of 6.50 credits both semesters. Lunch and gym request to change periods are not permitted.

Additional Requirements

Students are required to take minimum of three years of mathematics and minimum of two years of Foreign Language unless language is exempt through the student's IEP while attending Cardinal O'Hara High School.

NCAA Freshmen Eligibility Standards

Student Athletes hoping to play sports in any Division I or II college or university are required to register with NCAA Clearinghouse towards the end of junior year. For detailed information on academic requirements and the registration process visit the NCAA website at www.ncaa.org.

Independent Study

Independent Study credit may be granted for approved courses of study in the curriculum. A student who uses Independent Study as one of the courses required to maintain a full schedule must be assigned daily to a supervised area. Credit will be granted if a contract is drawn up stipulating the course content and grading procedures. Independent courses are a Pass/Fail grading system stated on report card and transcript. The breadth and depth of the course will reflect the applicable New York State Regents standards for learning and assessments. This contract will be created by the course instructor, and agreed to by the student and counselor. In addition, written permission is required by the parent) and final approval is needed from the Principal.

Student Services/Guidance Department

The Guidance Department is designed to assist all students in their development toward becoming self-directed, respectful of themselves and others, responsible, and productive, caring citizens in the community. Our school counselors are trained professionals and experienced in helping students work through situations personally, socially, academically, as well as providing educational and career planning. Contact the Student Services Office for assistance, to schedule an appointment with your student's counselor, and/or set up teacher conferences.

Library Media Center

The school library media program is currently under construction. The goal of this space will be to provide an additional support center to our students.

COURSE OFFERING INFORMATION

TECHNOLOGY & BUSINESS

INTRO TO BAKERY* Not available for the 2026-2027 school year
Full Year Course (1/2 credit) (HC 128) SUNY College Credit available
In this course students will be introduced to the fundamentals of baking, its equipment and methods used in production. Topics to be covered will include quick breads, yeast breads, pies, cakes, tortes, along with holiday specialty products commonly prepared in the bake shop. Students can register to earn college credit with SUNY Erie for a fee.
Prerequisite: Available to upper classman

COMPUTER TECHNOLOGY *
Full Year Course (1/2 credit)
Students will receive an introduction to keyboarding, word processing, databases and spreadsheets, as well as the Microsoft Operating System. Students taking this course will learn various computer skills that are useful everyday. This course is typically placed in freshman schedules opposite band and chorus.
Prerequisite: None

CAREER & FINANCE *
Full Year (1/2 credit)
Career and Finance is a course designed to provide students with resources to help determine a possible career as well as an introduction to financial information including: credit, student loans, and the stock market. Students will take a variety of career-based exercises, as well as determine a list of possible colleges they might attend after graduation. Course is typically taken sophomores year (schedule permitted). **Prerequisite:** None

ADVANCED PLACEMENT (AP) COMPUTER SCIENCE PRINCIPLES *
Full Year (1 credit)
AP Computer Science Principles is an introductory college-level computing course. Students cultivate their understanding of computer science through working with data, collaborating to solve problems, and developing computer programs as they explore concepts like creativity, abstraction, data and information, algorithms, programming, the internet, and the global impact of computing. Student may take the AP Computer Science examination in May. There is a fee for the examination.
Prerequisite: Geometry and Computer Tech or Career and Finance

GRAPHIC DESIGN
Full Year (1 credit)
This course incorporates photography, media, the elements of art, principles of design, traditional art media, and the software, Photoshop, in creating endless pos-

sibilities of unique art pieces. This course may touch on teaching students how create videos and short films.
Prerequisite: Studio Art or Computer Technology or Chorus/Band

ACCOUNTING I
Full Year Course (1 credit)
This is a beginning course designed to prepare students for careers in Accounting and to provide skills needed for related business fields. It is also a foundation on which to continue studying business and accounting at the collegiate level. Course content encompasses the complete accounting cycle and computer applications such as payroll, taxes and sole proprietorship.
Prerequisite: None

ENTREPRENEUR & MARKETING *
Full Year Course (1 credit)
This course introduces students to the role that marketing plays in our economic system. Students will have the opportunity to explore past and current trends and innovations influencing the marketing system and speculate on future trends related to their career goals. Students will then proceed to a more in-depth study of marketing such as marketing research, promotion, distribution, and retail operations. **Prerequisite:** None

HOSPITALITY MANAGEMENT* -(HR 111) SUNY College Credit available
Full Year Course (1/2 credit)
This introductory course is designed to familiarize students with the comprehensive scope of the hospitality industry. Emphasis will be on career opportunities, characteristics of hospitality operations and skills required to be successful. The "Hospitality" or "Service" concept is strongly emphasized. Students can register to earn college credit with SUNY Erie for a fee.
Prerequisite: Grade Levels: 11-12

SPORTS MANAGEMENT * (SPM 275) Niagara University College credit available
Semester Course (1/2 credit) Grade Level: 11-12
This course is designed for those curious about the field of Sports Management. It will provide you with an introduction to the skills and competencies required to pursue a career opportunity in the sports industry. Career opportunities in Sports Management include: Advertising, Collegiate Athletic Administration, Event Management, Facility and Arena Management, Marketing, Resort Management, Ticket Operation/Sales and more. Students may register to earn college credit for an additional fee to the college.
Prerequisite: Grade Levels: 11-12

ENGLISH

ENGLISH 9
Full Year Course (1 credit)

Students will be introduced to several genres of literature from different time periods and cultures including folk tales, novels, drama, poetry, short stories, essays, and young adult literature. A minimum of five major works will be covered throughout the year. An emphasis will be placed on the development of writing skills and students will demonstrate these skills in both informative and creative writing. Students will be assessed at the end of the year with a local exam that models the New York Regents Examination. Students are required to complete the mandatory Summer Reading Assignment due in the first week of freshman year.

Prerequisite: 8th Grade English

ENGLISH 9 HONORS
Full Year Course (1 credit)

In addition to the English Nine description, students are required to read and examine a total of six major literary works. Honors students will be expected to examine the literature on a deeper and more critical level, as well as write two additional essays during the course of the year. Placement is determined by past performance, entrance exam, and teacher recommendation.

Prerequisite: 8th Grade Performance

ENGLISH 10
Full Year Course (1 credit)

This course is designed to enhance and improve the basic grammar, vocabulary and literary analysis skills learned in English 9. In addition, emphasis is placed on developing strategies for effective expression in speaking , writing and comprehension in listening and reading. Students will work on various projects throughout the year. This will be aided by exposure to literary works and genres that represent a range of social historical and cultural perspectives encouraging students to express themselves verbally and through the writing process. Students are required to complete the Summer Reading Assignment due in the beginning of sophomore year.

Prerequisite: English 9

ENGLISH 10 HONORS
Full Year Course (1 credit)

Students in this course are expected to perform at a higher standard and remain committed to their work around the entirety of the course. The course reviews topics in grammar and composition, including narrative-descriptive-exposition, and argumentative communication. Students will examine literature at a deeper level and be required to complete a greater number of writing assignments. Students are required to complete the mandatory Summer Reading Assignment due in the beginning of sophomore year.

Prerequisite: English 9 Honors and/or permission of the instructor

ENGLISH 11
Full Year Course (1 credit)
This course continues to build on the skills and knowledge gained in grades 9 & 10 with specific focus on the preparation for the SAT and the NYS Regents Examination. For this purpose, every assignment and assessment is designed to hone specific skills of comprehension, analysis and expression as required for both exams. Students will read and analyze both literature and non-fiction information. They will express their interpretations of the written works through writing assignments, oral presentation, multi-media projects, journal entries, tests and quizzes. Through this process, they will learn to work cooperatively with classmates, listen to their points of view and share information while respectfully acknowledging differences of opinion. The course includes in-depth study of six major works that represents both classic and contemporary American authors. Students are required to complete the Summer Reading Assignment due in the beginning of junior year.
Prerequisite: English 10

ENGLISH 11 HONORS
Full Year Course (1 credit)-SUNY College Credit available
This course shares the same objectives as the Regents English 11 with selections getting more advanced. While the curriculum is similar, the expectations and the books read are quite different than in the Regents level. This class is structured more like a college level literature seminar, therefore, students are expected to be prepared and to engage in in-depth discussions about the works being studied. Assignments are designed to require a deeper level of analysis of each work studied and additional assignments will be required. Summer Reading is required. Students may register to earn SUNY Erie college credit for an additional fee to the college.
Prerequisite: English 10 Honors course and permission of the instructor

ENGLISH 12
Full Year Course (1 credit)
A survey of British Literature will comprise a major portion of this course that includes critical evaluation, plays, short stories, and poetry. Other key components of the course include vocabulary and formal writing, including both a college application letter and senior thesis, utilizing the MLA format as a guide. Research strategies and techniques will be introduced during the last quarter. This course must be successfully completed in order for the student to graduate. Students are required to complete the Summer Reading Assignment due in the beginning of senior year.
Prerequisite: English 11 course completion

ENGLISH 12 HONORS *
Full Year Course (1 credit)- (EN 110) SUNY College Credit available
This College Composition Course is designed to develop writing skills through a variety of writing tasks. The course will emphasize the use of rhetorical strategies in development of ideas, mastery of basic scholarly conventions, and application of

critical thinking skills. Reading selections will support the aims of the course. A documented research paper is required. Students are also required to complete the Summer Reading Assignment. Students can register to earn college credit with SUNY Erie for a fee.
Prerequisite: English 11 with 88% class average, and permission of the instructor

ADVANCED PLACEMENT (AP) ENGLISH 12
Full Year Course (1credit)
This course is for students interested in the exploration of literature. It is focused around reading and intellectual discussions rooted in classic literary texts. It also encompasses an intense writing workshop for formal and creative pieces. Students must take the CollegeBoard examination for an additional fee. Summer reading required.
Prerequisite: English 11 Honors with 90% final class average, passed RE ELA with 85% or higher and teacher recommendation

ENGLISH LANGUAGE SKILL (ESL)
Full Year Course (1 credit)
This course is designed to improve the reading, writing, and study skills necessary for the success in other high school courses. Emphasis is placed on reading comprehension improvement, grammar skills and vocabulary growth. The course includes group instruction as well as one-on-one tutoring as needed.
Prerequisite: English as a student's second language

NUSTEP ENGLISH 12 Niagara University College Credit available (EDU 214/236)
Full Year Course (1 credit)
This course is designed to introduce the prospective teacher to the theories of the human learning, development, and motivation and the applications of these theories in the learning environment. The course will also examine the way in which diverse disciplines, (e.g. history, philosophy, psychology, sociology, multiculturalist, economics, ethics and law) act as the bases upon which Western educational practices are built. Students may register to earn college credit for an additional fee to the college **Prerequisite:** English 11 course completion and passed RE ELA exam

CREATIVE WRITING *
Semester Course (1/2 credit)-(EN 140) SUNY College Credit available
Grade Level: 12
This half-year elective course challenges the student to free his or her creative writing muse. Introspective writing and exploring various styles of writing will be included. The course offers ample writing opportunities, while concurrently examining what factors in the best writing make it publishable. Book and film analysis will also be included. Bring a hearty appetite for reading, writing, critical thinking, and constructive criticism. Students may register to earn college credit for an additional fee to the college. This is an elective, does not replace English 9, 10, 11, or 12 full year courses. **Prerequisite:** English 10

INTRO TO FILM- (CA 285) SUNY College Credit available
Semester Course (1/2 credit)
This course will explore some of the terrific mystery writers, from Poe to King, from the detective's detective to the hard-boiled hero, paying special attention to structure, style, and conventions. We'll follow the case, clue by clue; of how great mystery story is written. Along the way, students will produce a few mystery stories of their own, and offer analysis and evaluation of both story and film. Students can register to earn college credit with SUNY Erie for a fee to the college. This is an elective, does not replace English 9, 10, 11, or 12 full year courses.
Prerequisite: English 10

FINE ARTS—VISUAL

STUDIO IN ART
Full Year Course (1 credit)
Studio in Art is the first course in the visual Art sequence. This course is designed to give the student a comprehensive understanding of the studio experience in the visual arts. Design principles and elements are introduced as well as explored in a broad range of media used. Students will also be introduced to the timeline of art from the historical artists up until today's contemporary art.
Prerequisite: None

DRAWING & PAINTING
Full Year Course (1 credit)
This is a course that looks at basic drawing techniques such as charcoal, soft pastel, pen and ink, and collage. Painting is also practiced using watercolor, acrylic and tempera. This is a fun class that will also discuss art history in depth. It is designed to challenge the student's creative ability and raise the student's potential.
Prerequisite: Studio In Art

DIGITAL PHOTOGRAPHY
Full Year Course (1 credit)
The Digital camera will be introduced, along with Photoshop, printing, and Mixed Media. All work is photo based in content. Students must be able to work independently and be self-motivated. Students will learn how to operate manual cameras as well.
Prerequisite: Studio In Art

GRAPHIC DESIGN *
Full Year (1 credit)
This course incorporates photography, media, the elements of art, principles of design, traditional art media, and the software, Photoshop, in creating endless possibilities of unique art pieces.
Prerequisite: Studio in Art

ADVANCED DESKTOP PUBLISHING
Full Year Course (1 credit)
This demanding self-motivation course requires the student to have the accountability of a part-time job. Staff members work individually and in groups to meet deadlines to produce the O'Hara yearbook with an online program. All contents are produced by students such as picture captions, written articles, photographs from school events, etc. The course will consist of: Journalism, Graphic Design, Layout, Theme Development and Computer Skills. This course is an excellent preparation for a career in many different communications fields.
Required: Access to a computer with Internet capabilities outside of school.
Prerequisite: Permission of course instructor & teacher recommendation

ADVANCED ACRYLIC PAINTING *
Full Year Course (1 credit)
Course Description: Students will study and explore the use of acrylic painting as a medium for visual self expression and creativity. Students will draw upon techniques developed by the old masters. The course will explore aspects of lamination and the use of mixed media. Students will become familiar with the use of materials and tools and see their work through all stages of development; from the initial conceptions and design to completion and presentation of the final project. This is a hand-on course but will start with lecture and then quickly develop into individual student instruction.
Prerequisite: Studio in Art and Drawing & Painting /teacher recommendation

ADVANCED STUDIO / PORTFOLIO DESIGN *
Full Year Course (1 credit)
This course is designed for the senior who is preparing to enter a college art program. This course will allow the serious art student time to develop individual skills on an independent basis. Students will develop a theme or medium to guide their in-depth exploration for the year. Art history and current trends in art will be discussed and explored through selected projects. Portfolio preparation for college acceptance will also be taught with emphasis on matting, photographing work, and presentation.
Prerequisite: Studio in Art & Drawing & Painting

PERFORMING ARTS—MUSIC AND DRAMA

CONCERT BAND
Full Year Course (1 credit)
This course will give students the opportunity to learn a new instrument and play together as a group. Students will learn how to read music and rhythms. Lessons, performances, and concerts in and out of the school are a mandatory part of the course requirement.
Prerequisite: None

WIND ENSEMBLE
Full Year Course (1 credit)
This course will give experienced students the opportunity to continue learning their instrument and playing together as a group. Students will learn how to read music and rhythms at a higher level. Performances, lessons, and concerts in and out of school are a mandatory part of the course requirement.
Prerequisite: Concert Band/Experience or teacher recommendation

JAZZ BAND *
Full Year Participation (1/2 credit)
This course will give experienced instrumental students the opportunity to play in a small ensemble group setting. Students will learn the basic of jazz from reading music/charts, rhythms and improvisation. Lessons and concerts in and out of school are mandatory part of the course requirement. Rehearsal are held after school.
Prerequisite: Instrumental experience

MIXED CHORUS
Full Year Course (1 credit)
This course is commonly called Freshmen Chorus and open to all students. Auditions and prior singing experience is not required. Students will learn the basic fundamentals of healthy vocal production, music literacy, ensemble skills, and performing skills. Students have the opportunity to perform in our school masses and other performances in and out of school. Weekly lessons and two school concerts are a required for this course. Students may audition for All-County and Area All-State Ensembles. **Prerequisite:** None

SONG CORP
Full Year Course (1 credit)
This course is the advanced vocal ensemble. This program consists of experienced singers and requires an audition. Freshmen may be considered for membership upon the director's discretion. Students will be challenged with high level repertoire, rigorous rehearsals. This ensemble goes on overnight/weekend trips where they not only perform, but also tour. The course also includes a Disney trip for a fee. Students may audition for All-County and Area All-State Ensembles. This course requires weekly lessons, two school concerts, out of school performances and serve as the school's mass choir.
Prerequisite: Mixed Chorus and/or teacher recommendation

A CAPPELLA MUSIC GROUP *
Full Year Participation (non-credited)
This group is for students interested to learn and perform challenging music. Students must be able to read music, work in group setting and sing without instrumental accompaniment. Rehearsals held weekly after school.
Prerequisite: Teacher recommendation & audition

MUSIC THEORY *
Full Year Course (1 credit)
This course is designed to introduce and expound upon the "why" and "hows" of music. Students will start from the most basic elements of music with notes on the staff, rhythm, clefs, keys and meter and quickly learn the ways all of these elements are combines to create melody and harmony. Students will analyze music, learn the rules (and how they are broken), and compose some of their own music. Students should have basic knowledge with musical fundamentals.
Prerequisite: Instrumental or vocal program or experience recommended

DANCE
Full Year Course (1/2 credit)
This course covers technique and classroom work in both tap and jazz dance. Tap I technique will progress from specific footwork, to combination of steps, to set routine. Jazz I technique covers the basic stretches, movements, body positions and different styles of jazz dance. This will progress from basic jazz steps, to combinations of steps, to set routine. Class work will include: keeping a notebook and learning the history of tap and jazz terminology and abbreviations. This class may be substituted for the physical education NYS requirement each year or an art elective.
Prerequisite: Student will need to purchase dance equipment.

ADVANCED DANCE
Full Year Course (1/2 credit)
This course builds upon the foundation established in Dance. The history of tap and jazz will continue with a review of the Minstrelsy Ear through Vaudeville Era. Students will be introduced to beginning choreography. This class may be substituted for a physical education NYS requirement each year or an art elective.
Prerequisite: Dance

INTRO TO THEATER- (DT 101) SUNY College Credit available
Full Year Course (1/2 credit)
College level course which may provide 3 credit hours to students toward their general education requirement in college. Students will look at the history of theater. Students will study different genres going back to Ancient Greek and studying up to the modern day. In the class, we will study the playwrights themes, style, important theater terminology, and certain criteria for looking at theater. The second part of the class will deal more with the production of theater. We will study acting theory and techniques, directing theory and techniques, stage design, and marketing and promotion of a production. The students will also study playwriting and work on writing One-Act play performances. The class will culminate in a nigh of One-Act to show the school and the community what they have been working on. Students can register to earn college credit with SUNY Erie for a fee to the college.
Prerequisite: Offered to upperclassmen

WORLD LANGUAGES ANCIENT AND MODERN

SPANISH I
Full Year Course (1 credit)
This course is an introduction to the study of the target language and its culture. It allows students to perform the most basic functions of the language and to become familiar with some elements of its culture. The emphasis is placed on the four skills of listening, speaking, reading, and writing. Students acquire insight into how the languages and cultures work by comparing the target language and culture(s) of their own. **Prerequisite:** None

SPANISH II
Full Year Course (1 credit)
Students continue their study of Spanish by further expanding their knowledge of the key vocabulary topics and grammar concepts. Students not only begin to comprehend listening and the reading passages more fully, but they also start to express themselves more meaningfully in both specking and writing. Each unit consists of a new vocabulary theme and grammar concept, reading and listening comprehension activities, speaking and writing activities, as well as interactive activities and practices that reinforce vocabulary and grammar.
Prerequisite: Spanish I or an 85 or high score on the Spanish placement test

SPANISH III
Full Year Course (1 credit)
This course builds upon knowledge gained in both Spanish I & II. Emphasis is on communicating in Spanish through speaking, listening, reading, and writing skills in various aspects of time. Students will participate in individual, paired and group activities as well as complete written and oral excises to practice new vocabulary and grammar concepts. Students will also write papers on an assigned topic and demonstrate speaking and listening proficiency throughout the year. A Local Comprehensive Examination in June is required.
Prerequisite: Spanish II

SPANISH IV - (SP 103) HILBERT College Credit available
Full Year Course (1 credit) 11 & 12
Students could earn 3 credit hours toward their general education requirement and/or to help to fulfill their second language requirement in college if they have one. This demanding course is designed to increase students' abilities in the four skills of speaking, listening, reading and writing through the mediums of communication and culture. Grammar is an essential part of this course. Students will be expected to prepare written and oral work to demonstrate their proficiency. There will be student presentations and discussions in Spanish, culture videos, movies and songs, listening to and understanding a telenovela in Spanish, reading of literary works by famous Spanish authors as well as reading short articles for pleasure. The

atmosphere is casual and relaxed in order to encourage a student's full potential in any given area of development. Students can register to earn college credit for a fee to the college. **Prerequisite:** Spanish III and/or teacher recommendation

SPANISH V - (SP 201) HILBERT College Credit available
Full Year Course (1 credit)
In this advanced Spanish course students will review and expand their communication skills (speaking, reading, and writing) through materials reflecting the history, literature and culture of the Hispanic world. Reading at an advanced level will consist of articles of varying topics and lengths and will stress comprehension. Students can register to earn college credit for a fee to the college. **Prerequisite:** Spanish IV

FRENCH I *
Full Year Course (1 credit)
First level French is an introduction to the fundamentals of communicating the French language. Focus is on the acquisition of the basic listening, speaking, reading, and writing skills. It presents an introduction to the cultures of the French-speaking world. This course is for students with no previous study of French or those requiring a review of the foundational skills. **Prerequisite:** None

FRENCH II *
Full Year Course (1 credit)
Second year of French II builds upon the skills of the first level, expanding vocabulary in register and cultural relevance. Review of present, implied future and passe' compose', along with acquisition of imperfect, commands and future tense is emphasized. Reading, conversation and writing are key components in this course.
Prerequisite: French I or an 85 score on the French placement test.

MATHEMATICS

PRE-ALGEBRA
Full Year Course (1 credit)
Pre-Algebra is designed for the student who may need to develop skills in basic math such as arithmetic, geometry, etc., before attempting more rigorous math courses. There will be emphasis on developing math skills using basic mathematical operations. Problem solving techniques and algebraic topics will be introduced preparing students for more advanced work to be covered in Integrated Algebra. This is the first math course in a series of courses leading to the student's preparation for the NYS Algebra I Exam, a requirement for high school graduation. Local examination is required.
Prerequisite: None

ALGEBRA I

Full Year Course (1 credit)

This is a traditional first year college preparatory course that follows NYS guidelines. It is a "gateway" course for which all traditional preparatory courses in math are dependent. Topics will include an extensive review of basic math skills; special emphasis is on problem solving techniques and all algebraic topics appropriate for preparation for the NYS Algebra I Exam. A TI Nspire graphing calculator is required. The course will also be supplemented with other non-algebraic topics as needed in preparation for the NYS Common Core Regents examination in June.

Prerequisite: None

SEQUENTIAL TO GEOMETRY

Full Year Course (1 credit)

This second year math course is designed to help students formalize their geometry experiences from elementary and middle school, using more precise definitions to establish the validity of geometric conjectures through deduction, proof or mathematical arguments. Students will study parallel and perpendicular lines, triangle congruence, polygons and quadrilaterals, similar figures, right triangles, transformations, area of polygons, surface area and volume and circles. This course will prepare students for the Sequential Algebra II/Trigonometry course as well as strengthen math skills needed for a mathematics course in college. A local exam is required for all students. The use of a TI-83/84 graphing calculator is required for all students. **Prerequisite:** Algebra 1

GEOMETRY

Full Year Course (1 credit)

Major topics of geometry include: Euclidian Geometry, Analytic Geometry, probability, logic, mathematical systems, and further exploration of Algebra, including solutions of quadratic equations. The TI Nspire graphing calculator is required. The NYS Geometry Regents exam is administered following successful completion of the course. Local exam is required. **Note:** Incoming Freshman should have obtained an 80% or higher on the Algebra Regents examination to be eligible to take this course. **Prerequisite**: Algebra I

GEOMETRY HONORS

Full Year Course (1 credit)

Geometry Course Description with additional topics covered. The NYS Geometry Regents Exam assessment will be administered at the appropriate time, typically following the successful completion of the course.

Prerequisite: Algebra I & Regents Examination with 80% or higher and/or permission of the instructor.

SEQUENTIAL ALGEBRA II
Full Year Course (1 credit)
Course is designed to strengthen and build on algebra skills while exploring trigonometry topics including linear functions, quadratic functions, inequalities, rational, roots, and radical functions, complex numbers, polynomials, exponential and logarithmic functions, trigonometry functions, and math skills related to everyday use.
Prerequisite: Geometry recommended

ALGEBRA II *
Full Year Course (1 credit)
This is the third course of the NYS Regents Math Program. The major topics include: rational expressions, irrational numbers, relations and functions, logarithmic functions, complex numbers, geometry of a circle, transformation, trigonometric functions, graphs, trigonometric evaluations and identities, statistics, and probability. A NYS Regents examination will be offered. The use of a TI Nspire graphing calculator is required for all students.
Prerequisite: Completion of Geometry and/or permission of instructor

ALGEBRA II HONORS
Full Year Course (1 credit)
This course follows the Algebra II NYS guidelines and will include additional advance topics. Use of a TI Nspire graphing calculator is required. Students will take a NYS Algebra II Regents examination.
Prerequisite: Geometry Honors and permission of the instructor.

ADVANCED PLACEMENT (AP) PRE-CALCULUS
Full Year (1 credit)
This course introduces students to calculus (limits, derivatives and integrals) after strengthening algebraic and trigonometric skills. An in-depth functional analysis of rational and polynomial functions is a precursor to the study of calculus. Additional topics of study include: systems of equations and inequalities, linear programming, matrices and determinants, and mathematical induction.
Mastery of the TI Nspire graphing calculator is assumed. Students will take an AP exam in May and local exam may be given in June.
Prerequisite: Algebra II, passed Regents exam, and/or permission of instructor.

ADVANCED PLACEMENT (AP) CALCULUS
Full Year Course (1 credit)
Calculus is an intense course, which may be accepted for college credit upon passing the AP Calculus Exam. Topics of Calculus along with Analytic Geometry will be covered. Independent work is expected and required. A TI Nspire graphing calculator is required. Students must take the AP examination that includes a fee.
Prerequisite: Pre-Calculus with an 80% or better and/or permission of the instructor.

PHYSICAL EDUCATION AND HEALTH

HEALTH
Semester Course (1/2 credit)
This course explores different factors in human health. An overview of the following topics will be covered: wellness as a way of life, personal hygiene, nutrition, physical fitness, tobacco, alcohol, substance use and abuse, steroids, peer pressure, and AIDS. This course is typically taken junior or senior year and is required for graduation. **Prerequisite:** 11th or 12th grader required

PHYSICAL EDUCATION 9
Full Year Course (1/2 credit)
Students will be taught the rules, regulations, basic skills, and conditioning principle and sportsmanship in the sports of badminton, basketball, flag football, hockey, lacrosse, soccer, softball, track and field, volleyball, and new games. Importance of physical fitness, safety, and care and use of equipment will be implemented.
Prerequisite: Physical Education required by NYS every year

PHYSICAL EDUCATION 10
Full Year Course (1/2 credit)
The Basic skills of the sports learned in the first year will be further developed with a review of the rules and regulations. Classes meet every third day.
Prerequisite: Physical Education required by NYS every year

PHYSICAL EDUCATION 11
Full Year Course (1/2 credit)
A better understanding of the strategy and concepts of team play will be taught in sport learned in the first two years. Classes meet every third day.
Prerequisite: Physical Education required by NYS every year

PHYSICAL EDUCATION 12
Full Year Course (1/2 credit)
Advanced strategies will be taught through actual team play, tournament, and in-class competition. Students will participate in co-ed badminton, softball, track and field, and volleyball. Classes meet every third day.
Prerequisite: Physical Education required by NYS every year

STRENGTH & CONDITIONING
Full Year Elective Course (1/2 credit)
This course is designed so that the student may get an appreciation for the human body's response to strength and conditioning exercises, proper technique and safety will be emphasized. This course will include both lecture and laboratory experiences. Students will learn proper weight lifting form, "core strength" exercise and basic nutrition and how it relates to exercise. This course does not replace Physical Education. **Prerequisite:** None

DANCE
Full Year Course (1/2 credit)
This course covers dance technique and classroom work. Tap technique will progress from specific footwork, to combination of steps, to set routine. Jazz technique covers the basic stretches, movements, body positions and different styles of jazz dance. This will progress from basic jazz steps, to combinations of steps, to set routine. Class work will include: keeping a notebook and learning the history of tap and jazz terminology and abbreviations. This class may be substituted for a NYS physical education requirement or art elective if taking physical education.
Prerequisite: None

ADVANCED DANCE
Full Year Course (1/2 credit)
This course builds upon the foundation established in Dance. The history of tap and jazz will continue with a review of the Minstrelsy Ear through Vaudeville Era. Students will be introduced to beginning choreography. This class may be substituted for a NYS physical education requirement or art elective if taking physical education.
Prerequisite: Dance

RELIGIOUS STUDIES

UNDERSTANDING CATHOLIC CHRISTIANITY
Full Year Course (1 credit)
This course focuses on three types of students: practicing Catholics, non-practicing Catholics, and students of other faith traditions. Using a variety of teaching and learning styles, the students are led to a meaningful understanding of their personal call to holiness and the means God provides for us to achieve our sanctification through the message of His Son, Jesus, and the gift of the Holy Spirit. They will be introduced to the basics of the doctrinal, sacramental and moral life of the Church founded by Jesus. Using evidence of scripture, history, the teachings of the Catholic Church, and the experiences of many people, students will learn that the Catholic faith is worthy of belief. The communication of the Catholic/Christian faith traditions will be based on the four pillars of faith—creed, liturgy, morality, and prayer. Students will be invited and motivated to become involved in their Christian/religious communities, and in the lived practice of their own tradition. **Requirements:** Participation in class retreat and 35 hours of Christian service. **Prerequisite:** None

JESUS OF HISTORY / CHRIST OF FAITH
Full Year Course (1 credit)
This course is a scriptural based study of the mystery of Jesus of Nazareth, in which the student is invited to build a personal relationship with Jesus. It includes: foundation for faith in Jesus; a presentation of Jesus and the early Christian faith as viewed by the four Gospel portraits of the Evangelists; a development of the background of Jesus' missions and ministry by an overview of Old Testament expectations; a focus on Jesus and his activity in Palestine, his human personality, message and miracles; a development of the Paschal Mystery and its meaning for contemporary Christians; a lead-in to

personal commitment of faith in Christ by tracing the development of Christological faith in the Church, in titles, creeds, and councils. By personal, guided reflection used throughout this course, the student is provided with an opportunity to explore, imitate, and integrate Gospel values.
Requirements: Participation in class retreat and 35 hours of Christian service. **Prerequisite:** Prefer Understanding Catholic Christianity completed

CHURCH HISTORY (and its Leaders through the Ages)
Full Year Course (1 credit)
This course focuses on three types of students: Practicing Catholics, Non-Practicing, and students of other faith traditions. This course engages the students in learning how the message of Jesus has existed in different societies and cultures over the last 20 centuries and to look at the Church through history with "eyes of faith." In this course, students will study the Church, established by Jesus, how it was guided by the Holy Spirit and great spiritual leaders, and will trace the development of Church through the centuries; from the early Christian communities up to the Catholic Church in the Modern World. They will be able to articulate how Americans have reshaped Catholicism and gain an understanding of how the Church's social teachings have made her a leading voice for justice in the world. In addition, the students will gain an appreciation of the roles Pope John Paul II and Pope Benedict XVI played in bringing the Church into a new millennium, and the role they play in shaping the Church of the future. **Requirements**: Participation in class retreat and 35 hours of Christian service. **Prerequisite:** Jesus of History/Christ of Faith

RELIGION 12
Full Year Course (1/2 Credit)
This course incorporates the materials from the past three years of religious education and applies it with one's own personal assent and experiences. It provides the basis of developing a Christian lifestyle by examining changes in life. It also discusses the following topics: personal growth, work, money, suffering, sexuality, love, friendship, communication, dating, single life, marriage, and consecrated and ordained life. **Requirements:** Participation in class retreat and 35 hours of Christian service. **Prerequisite**: Church History and the Saints

SCIENCE

LIFE SCIENCE BIOLOGY
Full Year Course (1 credit)
Living Environment is the study of living things and their interactions. This course is designed to help students apply scientific concepts, principals, and theories pertaining to the physical setting as well as the living environment. Students also learn to recognize the historical development of ideas in science and have an overview of the biological sciences, including biochemistry, cell biology, taxonomy, plant and animal physiology, ecology, genetics, and evolution. Along with class material, students

must complete a minimum of 1200 minutes of laboratory time to be eligible to take the NYS Living Environment Regents Exam.
Prerequisite: None

LIFE SCIENCE BIOLOGY HONORS
Full Year Course (1 credit)
This is a challenging course that will cover the Regents syllabus. The syllabus is a comprehensive overview of the biological sciences, including biochemistry, cell biology, taxonomy, plant and animal physiology, ecology, genetics, and evolution. In addition, more attention will be placed on the laboratory experiences and written reports. Critical thinking and problem solving will be emphasized.
Students are required to take the NYS Living Environment Regents Exam.
Prerequisite: Permission of instructor

EARTH and SPACE SCIENCES
Full Year Course (1 credit)
Regents Earth Science is an extensive course that studies the following topics: observation and measurement of the changing environment, measuring the earth and its rotations, weather and atmospheric conditions, the water cycle, weathering and erosion, plate tectonics, volcanoes, and interpreting geologic history. Students must complete class material as well as a minimum of 1200 minutes laboratory time and complete lab reports as a prerequisite for the lab practical and written Regents examination. Students are required to take the NYS Regents Exam.
Prerequisite: Living Environment

EARTH and SPACE SCIENCES HONORS
Full Year Course (1 credit)
This challenging course covers an extensive range of topics, including observation and measurement of the changing environment, measuring the earth and its motions, weather and atmospheric conditions, the water cycle, weathering and erosion, plate tectonics, volcanoes, and interpreting geologic history. Key concepts will be studied in greater depth than at the Regents level and critical thinking and problem solving will be emphasized. In addition, greater attention will be given to lab investigations and environmental issues. Students must complete 1200 minutes of hands-on laboratory time and complete lab reports as a prerequisite for the lab practical and written Regents examination. Students are required to take the NYS Regents Exam. **Prerequisite:** Living Environment **&** permission of instructor

CHEMISTRY
Full Year Course (1 credit)
Regents Chemistry will cover the NYS Regents syllabus, which covers an extensive range of topics including: matter and energy, atomic structure, bonding, the periodic table, mathematics of chemistry, kinetics and equilibrium, acids and bases, redox reactions, electrochemistry, nuclear chemistry, and organic chemistry. In addition, students will carry out laboratory investigations and turn in written reports. Students must complete 1200 minutes of hands-on laboratory time and complete lab reports

as a prerequisite for the Regents examination. Students enrolled in this course are required to take the NYS Regents Exam.
Prerequisite: Algebra I with Earth Science & Living Environment, or Living Environment Honors & Algebra I

INTRODUCTION TO Earth and SPACE *
Full Year (1 credit) Grade Level: 10
This elective course is designed to introduce students to Earth Science. This elective does not include a Regents exam. Labs will be done in class.
Prerequisite: Teacher recommendation/Living Environment

INTRODUCTION TO CHEMISTRY *
Full Year (1 credit) Grade Level: 10 - 11
This course is designed to introduce students to chemistry. This elective is rigorous but not at the pace of a Regents science course. Labs will be done in class.
Prerequisite: Two Regents sciences

OCEANOGRAPHY / MARINE SCIENCE *
Semester Course (1/2 credit) Grade Level: 11-12
This course examines the dynamic ocean and its inhabitants as well as factors that effect marine organisms and their ever-changing environment. Included in this is a study of ocean chemistry, ocean geology, ocean biology, and atmospheric variables.
Prerequisite: Living Environment and Earth Science

METEOROLOGY *
Semester Course (1/2 credit) Grade Level: 11-12
This course is the scientific study of the Earth's atmosphere, especially its pattern of climate and weather. Topics that will be covered include: wind and air pressure, storms and weather fronts, floods and droughts, snow and ice, hurricanes, clouds and rainbows, and greenhouse effect.
Prerequisite: Living Environment and Earth Science

ENVIRONMENTAL SCIENCE
Semester Course (1 credit) Grade Level: 11-12
This course is designed to make the students aware of the physical world around them, and the impact humans have on this world. The class will explore the current state of the world's environment, the impact of society's decisions on the environment, and what the future holds for our environment. Topics will include climate change, resource management, conservation pollution, and alternative energy.
Prerequisite: Living Environment and Earth Science

FORENSIC SCIENCE - (FS 101) HILBERT College Credit Available
Semester Course (1/2credit) Grade Level: 11-12
This elective course investigates the different areas of Forensic Science. Students will explore the science and legal aspects of DNA fingerprinting, crime scenes, hair and fingerprint analysis, blood spatter, ballistics, toxicology, the causes of death, soil and

bone analysis, hand writing, and counterfeiting. The class will review cold cases and examine the forensic science of well known legal cases. The class will consist of lecture, class notes and class participation.
Prerequisite: Completion Chemistry or congruent with Chemistry.

PHYSICS REGENTS
Full Year Course (1 credit)
Physics is a comprehensive course dealing with real world phenomena at the macroscopic, subatomic, and cosmic levels. A broad range of topics will be covered including: mechanics, energy, electricity and magnetism, wave phenomena, modern physics and at least 2 of the following: motion in plane, internal energy, electromagnetic applications, and nuclear energy. Students must complete 1200 minutes of laboratory time for the NYS Regents examination that is required for this course. Students interested in science related careers are encouraged to take this course.
Prerequisite: Three years of Regents Mathematics and Regents Sciences

ADVANCED PLACEMENT (AP) PHYSICS 1 *
Full Year Course (1 credit)
This course is designed to cover the NY State Regents Physics as well as the AP-1 Physics course. Students will learn about Newtonian mechanics, work, energy and power; mechanical waves, sound and light; electrostatics and electrodynamics; and modern physics. Students must complete laboratory time for NYS Regents examination. Students Must take the AP-I Physics examination through CollegeBoard in May for an additional fee. **Prerequisite:** Completion/concurrently in Algebra II & three years of Regents Sciences

ADVANCED PLACEMENT (AP) BIOLOGY / (BI 641) HILBERT College Credit Available
Full Year Course (1 credit) Grade Level 11-12
A college level course integrates current topics with the biological concepts. This course provides a holistic view of how living things work. Students are required to carry out laboratory experiences and turn in written reports
Prerequisite: At least 85% average in Biology & passed Chemistry
Students who scored below 85 on the Biology Regents exam are not eligible to take the AP exam. Students who scored 85 or above are expected to take the AP Biology exam in May for an additional fee. College credit is available to all students.

ADVANCED PLACEMENT (AP) PSYCHOLOGY / (PSY 101) HILBERT College Credit Available Full Year Course (1 credit) Grade Level: 11-12
The purpose of the AP course in Psychology is to introduce the systematic and scientific study of the behavior and mental processes of human being and other animals. Included is a consideration of the psychological facts, principals, and phenomena associated with each of the major subfields within psychology. Students also learn about the ethics and methods psychologists use in their science and practice. Student may take the AP Psychology examination through CollegeBoard for additional fee. Student must choose AP or Hilbert College Credit
Prerequisite: Completion of three years of Sciences.

INTRODUCTION TO ENGINEERING *

Full Year Course (1/2 credit) Grade Level: 10-12

This course is designed to introduce students to science and engineering topics. This hands on course helps students gain insight on various science, technology, engineering, and mathematics fields as well as being exposed to various potential career tracks. Curriculum includes: engineering topics (mechanics and structures), computer science (Mindstorms language based on Robolab), and Robotic Engineering (NXT-based robotics). Typically a junior or senior class.

Prerequisite: Two years of Regents Mathematics and two Regents Sciences

ENGINEERING *

Full Year Course (1 credit) Grade Level: 11-12

This Engineering course is an expansion of Intro. Engineering that introduces students to advanced science, computer science, and engineering topics. The course will allow students to explore multiple topics individually and in groups and does not center on a traditional lecture-based style. Instead, students are challenged to do assignments that lead them through various topics including advanced physics topics, engineering, computer sciences, and robotics. Typically a senior class.

Prerequisite: Intro. to Engineering, completed or concurrently in Physics or Algebra II or instructor approval

SOCIAL STUDIES

GLOBAL HISTORY & GEOGRAPHY I

Full Year Course (1 credit) Freshmen Year

The ninth grade global studies course concentrates on major world culture regions: Latin America, The Middle East, Africa, India, East Asia, and Southeast Asia, with an emphasis on the interaction of man and his environment. An overview of the geography of each region is also included. **Prerequisite:** None

GLOBAL HISTORY & GEOGRAPHY I HONORS

Full Year Course (1 credit)

This course will present students with a conceptual global view of our changing world community. The course is chronologically organized around five themes characteristic of all societies: physical/geographic, historical, social, economic, and political. The ninth grade program will include the global regions of Latin America, Africa, The Middle East, India, China, Japan, and Southeast Asia.

Prerequisite: Permission of the instructor

GLOBAL HISTORY & GEOGRAPHY II

Full Year Course (1 credit) Sophomore Year

The culture, geography, and history of Western Europe and Eastern Europe are presented. This course will stress on content area from approximately from 1750 to present. Topics such as nationalism, colonialism, and conflicting ideologies will be covered as well. Students are required to take the new Global History and Geography NYS Framework Regents Exam. **Prerequisite:** Global I

GLOBAL HISTORY & GEOGRAPHY II HONORS
Full Year Course (1 credit)
Includes a comprehensive study of Latin America, Western Europe, Eastern Europe, and the Soviet Union. This course will stress on content area from approximately from 1750 to present. A concluding unit explores the challenges, which confront the entire world. Students are required to take the Global History and Geography NYS Framework Regents Exam.
Prerequisite: Maintained an 85% class average in Global History & Geography I Honors & permission of the instructor

ADVACNED PLACEMENT (AP) GLOBAL HISTORY & GEOGRAPHY II
Full Year Course (1 credit) *
AP World History Modern is a college-level course that follows the same framework as Global II but at a higher level and a quicker pace, as the AP test is at the beginning of May. We will look at key historical events between the years 1200 and the present day. The use of primary and secondary sources will be vital to this course, and students will have to be able to theorize and defend their position based on their findings. Key topics include: Global trade networks, Creation and expansion of empires, Revolutions caused by innovation, territory, and the hope of freedom, Visions of global wars and their impact on the layout of the world, and Modern day issues. In addition to taking the AP test, student will still complete the NYS Global II Regents exam in June.
Prerequisite: Global History I Honors with an 85% or higher final class average and/or teacher recommendation

UNITED STATES HISTORY & GOVERNMENT
Full Year Course (1 credit) Junior Year
The course includes a chronological and conceptual study of the development of American Government, and the application of the United States Constitution. Also, students will regard the political, social, and economic maturity of the United States from the Colonial Period to the present day. Students are required to take the NYS Regents Exam. **Prerequisite**: Global History I & Global II course completion

ADVANCED PLACEMENT (AP) UNITED STATES HISTORY & GOVERNMENT
Full Year Course (1 credit)
This highly challenging course will discuss and interpret major personalities, events, and philosophies of American History. All students enrolled in this course must take the US History Regents Examination in June and be prepared to take the Advanced Placement Exam in May for an additional fee.
Prerequisite: Global History II Honors (80% or better on NYS Regents and overall 88% class average) or permission of instructor

ECONOMICS / PARTICIPATION IN GOVERNMENT
Full Year Course (1 credit) Senior Year
The first half of this course presents the student with an examination of the operation of a market economy, income analysis, elements of monetary and fiscal policy, the market system, role of government, economic growth and stability, and the United States economy and its effect on the rest of the world. The second half of the year will survey the functions and roles of city, county, and state governments. Students will be able to see inter-relationships of these governments and their responses to the federal system. It is a practical course, which illustrates how personal and community problems can be resolved. Course required by NYS for all seniors.
Prerequisite: Senior with three years of Social Studies completed.

INTRO TO CRIMINAL JUSTICE– (CJ 101) Hilbert College Credit available
Full Year Course (1/2 credit) Grade Level: 11-12
This course is designed to prepare graduates for the employment in the criminal justice areas of police work, courts, probation, parole, youth counseling, retail security, and private security. The criminal justice system is viewed in its relationship to contemporary social issues.
Prerequisite: Grade Level: 11-12

INTRO TO LAW– (PA101) SUNY College Credit available
Full Year Course (1/2 credit) Grade Level: 11-12

CAREER AND TECHNICAL
BOARD OF COOPERATIVE EDUCATIONAL SERVICES (BOCES)

Listed below are one and two year education programs offered through the Ken-Ton Career & Technical Education Services. Students interested should contact the Student Services/Guidance Department for further information and the KenTon Career Center in January of sophomore year. Most career and technical education programs are two-years (junior and senior). Dual registration is required for this program. Parents must submit the Dual Registration form to their District of Residency before June 1st for approval each year. **Transportation is the responsibility of the student or district of residency.**

Program Options mainly at the Kenton Career Center:

Animal Science	Auto Technician Training	Culinary Arts
Baking & Pastry Arts	Early Childhood Education	Barbering
Cosmetology	Electrical Systems	Building Trades
Health Careers	Criminal Justice	Welding
Graphic Design Technology	Emergency Medical and Fire Service	
Fashion Design & Merchandising at Harkness		Exercise Science

New Visions Honors Level One Year CTE Senior Program Options:
Health Related Careers , Diesel Technology, Education Pathways Academy, Legal Academy, Zoo Wildlife & Conservation Careers, Plant Science, and Engineering & Manufacturing

These are programs for Honors Level, College Bound students willing to take on challenging and intense programs in an area of interest. Students must have taken Earth and Space, Living Environment, Chemistry, Algebra I, Geometry, and Algebra II. Students will receive their technical training at local hospitals or through internships out in the community.

Transportation may be the responsibility of the student. Students must apply Early Spring of Junior year for all programs. Please see your school counselor for the application that must be submitted early March of Junior year.

For detailed information on ***all*** the Career & Technical Education Programs, visit their website at www.e1b.org/cte.

Mission Statement

**In the spirit of St. Francis,
the mission of
Cardinal O'Hara High School
is to provide a holistic
Catholic-Christian environment
that addresses the
uniqueness of the individual
in a total community of learners.**

WE ARE O' HARA….HAWK PRIDE!