**NEW YORK STATE / OHS GRADUATION REQUIREMENTS 2023-2024**

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| --- | --- | --- | --- |
| **DIPLOMA TYPE**  **COHORT/**  **GRADUATION YEAR** | **Local Diploma** | **Regents Diploma** | **Regents Diploma with Advanced Designation** |
| **2021 Freshman (Seniors)** | **Earn 22 Units of credit and students with disabilities who score 55-64 on any of the required Regents exams.** | **Earn 22 units of HS credit and score a 65 or above on Five \* required Regents exams.**  **Regents with Honors \*\*\*** | **Earn 22 units of HS credit and score a 65 or above on additional \*\*required Regents Exams.**  **Regents with Honors \*\*\*** |
| **2022 Freshman (Juniors)** | **Earn 22 units of credit and students with disabilities who score 55-64 on any of the required Regents exams.** | **Earn 22 units of HS credit and score 65 or above on Five \*required Regents exams.**  **Regents with Honors \*\*\*** | **Earn 22 units of HS credit and score 65 or above on additional \*\* required Regents Exams.**  **Regents with Honors \*\*\*** |
| **2023 Freshman (Sophomores)** | **Earn 22 units of credit and students with disabilities who score 55-64 on any of the required Regents exams.** | **Earn 22 units of HS credit and score 65 or above on Five \*required Regents exams.**  **Regents with Honors \*\*\*** | **Earn 22 units of HS credit and score 65 or above on additional \*\* required Regents exams.**  **Regents with Honors \*\*\*** |
| **2024 Freshman (Freshman)** | **Earn 22 units of credit and students with disabilities who score 55-64 on any of the required Regents exams.** | **Earn 22 units of HS credit and score 65 or above on Five \* required Regents exams.**  **Regents with Honors \*\*\*** | **Earn 22 units or credit and score 65 or above on additional \*\* required Regents exams.**  **Regents with Honors \*\*\*** |

**Students with disabilities who score 55-64 on any of the required Regents examinations may earn a local diploma.**

**\*Required exams include: Comprehensive English, 1 Science, 1 Math, 1 Global History and Geography and US History and Government.**

**\*\*In addition to the required exams, students must also pass another science (at least one life science and at least one in physical science) and three Mathematics (Algebra, Geometry and Algebra 2).**

**\*\*\*Regents with Honors- Exam scores have a cumulative average of 90% or above.**

**(Graduation and the Regents exam requirements may change based upon NYS Education Dept.)**

**GRADUATION REQUIREMENTS AND CREDITS**

|  |  |  |  |
| --- | --- | --- | --- |
| **GRADUATION CREDITS ALL REQUIRE 22 MIN.** | **LOCAL DIPLOMA**  **(CSE Students Only)** | **REGENTS DIPLOMA** | **REGENTS DIPLOMA WITH ADVANCED DESIGNATION** |
| **English** | **4** | **4** | **4** |
| **Social Studies** | **4** | **4** | **4** |
| **Mathematics** | **3** | **3** | **3** |
| **Science** | **3** | **3** | **3** |
| **Language other than English** | **1** | **1** | **3** |
| **Physical Education** | **2** | **2** | **2** |
| **Fine Arts** | **1** | **1** | **1** |
| **Health** | **½** | **½** | **½** |
| **Electives** | **3 ½** | **3 ½** | **1 ½** |
| **Total** | **22** | **22** | **22** |

**MINIMUM REQUIRED CORE COURSES**

|  |  |  |  |
| --- | --- | --- | --- |
| **ENGLISH** | **SOCIAL STUDIES** | **MATHEMATICS** | **SCIENCE** |
| English 9 | Global Studies 9 | Algebra | Earth Science |
| English 10 | Global Studies 10 | Geometry | Biology |
| English 11 | United States History and Government or AP US History | Algebra 2  OR | Chemistry  OR |
| AP English Lit  OR  English 12 | Economics & Participation in Government | Algebra 1 Pt 1  Algebra 1 Pt. 2  AND  3rd Math | Physics  OR 1 Approved Science Elective |

**FINE ARTS**

To qualify for graduation, all Oneonta High School students must have completed at least one credit of art and/or music. The courses that may be used to satisfy this requirement are:

* Studio in Art
* Media Arts
* Music in our Lives 1 and Music in our Lives 2
* Drawing and Design for Production
* Band
* Chorus/Choir

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**ENGLISH**

The arts and skills of English have been at the core of student preparation for generations, more so than ever in this age of rapid technological and social change. The skills of reading, writing, listening and speaking are necessary for literate adults expected to read a variety of materials, to write reports and papers, to express themselves aloud, and to listen and learn from media, discussions and lectures. English language skills are the foundation for all these activities. Language- written and spoken, heard and read- is the essential element in the education of the students of OHS. Competence in language serves the purposes of accomplishing the business of daily life, communicating attitudes and ideas and expanding the mind to an awareness of the richness of human experience. **To graduate, students must complete four units of credit in English and pass the NYS Regents Exam in Comprehensive English.**

**SPECIAL CLASS ENGLISH 9/10 824- full year course 1 credit**

Special Class English 9/10 is a program of student for students with disabilities, who need specialized instruction in Language Arts, in ninth and tenth grade. This is a pull-out program designed specifically to meet the social, behavioral and/or academic needs of our students. The content of the class will include modified grade level curriculum to improve student’s reading, writing and speaking skills.

**ENGLISH 9R 111-full year course 1 credit**

English 9R is a concentrated program of study for freshman. In this course, students will read and view a wide range of print, visual and digital texts including the study of at least one play by Shakespeare. Student will learn to communicate effectively using writing, speech and visual media for a wide range of personal, academic, and professional purposes. Students will acquire, evaluate, and synthesize information and opinions from a variety of texts and media across cultures to deepen content knowledge and to connect academic learning to authentic applications.

**ENGLISH 10R 121- full year course 1 credit**

English 10R is a sophomore English course of study. The units of study build sequentially on the English 9R program, giving students a richer experience in composition, oral expression, research writing, and literature, including at least one play by Shakespeare.

**ENGLISH 10A 122- full year course 1 credit**

**PREREQUISITE: Complete an application and gain approval by committee.**

English 10A is an advanced course for students who have displayed exceptional competency in written and oral language, independent and creative problem solving, and in the understanding of literature. It is assumed that students at the advanced level can proceed at a quick pace without sacrificing thoroughness of study. The course content includes units in literature, composition, research writing, and oral expression. Summer assignments are included with this course.

**SPECIAL CLASS ENGLISH 11/12 825- full year course 1 credit**

**PREREQUISITE: Teacher Recommendation**

Special Class English 11/12 is a program of study for students with disabilities, who need specialized instruction in Language Arts, in eleventh and twelfth grade. This is a pull-out program designed specifically to meet the social, behavioral and/or current academic needs of our students. The content of the class will include modified grade level curriculum to improve student’s reading writing and speaking skills. Eleventh grade students will take a New York State regents exam in June.

**ENGLISH 11R 131- full year course 1 credit**

Regents Exam English 12 builds on the units of English 10R. In this class students read a balance of literature and informational texts. Students focus on becoming better communicators through writing, speaking, listening, and developing a better grasp on the conventions of language. This class places a particular emphasis on the close

reading of texts and on students supporting their arguments in writing through the use of clear and ample evidence. Students take a New York State Regents Exam in June.

**ENGLISH 11A 132- full year course 1 credit**

**PREREQUISITE: English 10A teacher Recommendation**

English 11A is a continuation of the English 10A course for students who have shown exceptional aptitude in language study. Students will pursue mastery of the state standards in language arts through an intensive study of composition, research writing, oral expression, and literature, including the study of at least one play by Shakespeare. It is assumed that students at the advanced level can proceed at a quick pace without sacrificing thoroughness of study. Students will take the English Language Arts Regents exam in June. Summer assignments are included with this course.

**ENGLISH 12 102- full year course 1 credit**

English 12 includes oral expression and research through the study of writing with an emphasis on analysis, argument and personal narrative. Compositions will address the conventions that make language work to achieve clarity and accuracy. Additionally, student will read, critique, and analyze various pieces of literature. The course involves the explorations of underlying patterns and meanings shared by all literary works. The course will also investigate the social, political, and cultural influences surrounding studied texts.

**AP ENGLISH 199- full year course 1 credit**

AP English Literature and Composition is designed to provide students with a learning experience equivalent to the introductory year of college literature coursework. The course challenges students to engage in the careful reading and critical analysis of literature. Through this close reading of literary texts from both British and American writers from the sixteenth century to contemporary times, students are to deepen their understanding of the ways writers use language to provide both meaning and pleasure to their readers. Students enrolled in this course will be expected to take the AP exam in May.

**CREATIVE WRITING xxx – ½ year elective ½ credit**

**Recommended: Juniors and Seniors**

This English elective class is designed to explore various writing styles, with a strong focus on the craft of writing. Students will gain a strong understanding of different writing styles, while developing their individual narrative voice. Students will experiment with writing dialogue, scenes, memories, and details. Students will be required to write fiction, non-fiction, and poetry. Using the writing process, students will demonstrate a command of the nuances of language, vocabulary, English language conventions, an awareness of audience, the purposes for writing and the style of your own writing.

**MATHEMATICS**

All people need knowledge of mathematics to function well in today’s society. Mathematics is an indispensable language of science and technology, as well as business and finance. All people, therefore, need fluency in this language if they are to fare well in our contemporary world. More than any time in the past, the knowledge and appreciation of mathematics are essential to students’ intellectual development. The advances of recent years in computer science and other highly technical fields have opened new opportunities to those well trained in mathematics. OHS students are strongly encouraged to use the opportunity to gain strong preparation in mathematics to stimulate their intellectual skills to function successfully in the marketplace and in their chosen fields of employment. College-bound students need knowledge of computers and informational systems, algebra, geometry, trigonometry and a variety of functions to major in a wide range of fields. It is strongly recommended that all students go beyond the minimal graduation requirements and study mathematics during each of their four years at OHS.

Note: Regents regulations stipulate that the school will ensure that each student has exclusive use of a graphing calculator available when taking the Algebra, Geometry, and Algebra 2 Regents exams. The mathematics department will have TI-84+ calculators available for student use on the Regents exams. However, all students are strongly encouraged to have their own calculator for use on the Regents exams and in the classroom. The Mathematics Department recommends the TI-84+.

**POSSIBLE SEQUENCES**

Algebra 1R- Part 1 Algebra 1R Geometry A

Algebra 1R- Part 2 Geometry R Algebra 2A

Geometry Algebra 2R or Algebra 2 AP Calculus or Pre-Calculus

Financial Algebra or Algebra 2 Pre-Calculus/ Statistics AP Calculus I or AP Calculus II

**SPECIAL CLASS MATHEMATICS 821- full year course 1 credit**

**PREREQUISITE: Teacher Recommendation Regents Exam**

This is a two-year sequence that ultimately prepares students for the Algebra I Regents. Students in this course have Individual Education Plans (IEP) and are struggling with mathematics in the regular education classroom and require small group instruction but who are not appropriate for a full-day, self-contained program. These students are on track for earning a local or Regents diploma. The content, methodology, or delivery of instruction is adapted to ensure the student has access to the general curriculum and the opportunity to meet the educational standards that apply to all students.

**ALGEBRA 1R Part 1 421- full year course 1 credit**

**PREREQUISITE: Teacher Recommendation**

This is the first course in a two-year sequence that ultimately prepares students for the Algebra 1 Regents. Students in this course are given an opportunity to learn mathematics at a pace that is more conducive to their learning style. Guided notes, extra practice, and engaging hands on activities are some of the teaching strategies that are used to help students grasp the concepts in mathematics. Topics covered in Algebra 1R Part 1 include but are not limited to number systems, operations and properties, operations with algebraic expressions, solving equations and inequalities, ration and proportion, graphing functions and statistics. A local midterm and final are given. Students who successfully complete Algebra 1R Part 1 will take Algebra 1R Part 2.

**ALGEBRA 1R Part 2 422- full year course 1 credit**

**PREREQUISITE: Algebra 1R- Part 1 or Teacher Recommendation Regents Exam**

In this sequel to Algebra 1R Part 1, student continue to prepare for the Algebra 1 Regents in June. They will advance their Algebra skills by studying equation solving techniques, graphing and analyzing data, linear and nonlinear functions, operations on algebraic equations, factoring and statistics. A local midterm and the Algebra 1 Regents are given.

**ALGEBRA 1R 408- full year course 1 credit**

**PREREQUISITE: Teacher Recommendation Regents Exam**

This course prepares students for the Algebra 1 Regents in June. The topics covered in Algebra 1R include but are not limited to relations between quantities and reasoning with equations, statistics, linear and exponential relationships, expressions, equations and quadratic functions. All topics address the NYS Next Generation Learning Standards. A local midterm and the Algebra 1 Regents are given.

**ALGEBRA 1A 906- full year course 1 credit**

**\*Advanced math students will have completed Algebra 1A in 8th grade. Regents Exam**

This course is an enriched section of Algebra 1R offered to highly motivated and capable students. A more rigorous approach is given to all topics covered in Algebra 1R. A local midterm and the Algebra 1 Regents are given.

**GEOMETRY 423- full year course 1 credit**

**PREREQUISITE: Teacher Recommendation**

This course includes the study of congruence and similarity of figures, constructions, circles, triangles, transformational geometry, plan geometry and informal proofs. **This class is NOT a preparation for the Geometry Regents Exam.** A local midterm and final exam will be given.

**GEOMETRY R 409- full year course 1 credit**

**PREREQUISITE: Algebra 1R or Teacher Recommendation Regents Exam**

This course prepares students for the Geometry Regents in June. Topics of study include congruence, similarity, right triangles, trigonometry, circles, geometric properties and equations, geometric measurements and dimension and modeling with geometry. A local midterm and the Geometry Regents are given.

**GEOMETRY A 415- full year course 1 credit**

**PREREQUISITE: Algebra 1A or 1R with a Regents score of 80 or higher, and Teacher Recommendation. Regents Exam**

This course is an enriched section of Geometry R offered to highly motivated and capable students, most of whom have accelerated their study of mathematics. A more rigorous approach is given to all topics covered in Geometry R. A local midterm and the Geometry Regents are given.

**FINANCIAL ALGEBRA 437- full year course 1 credit**

**PREREQUISITE: Student must have completed Algebra 1 and Geometry or Algebra 1 Parts 1 & 2 (2 full years of math)**

Financial Algebra is a course designed to teach students mathematical concepts through financial applications which relate to everyday life. Topics include stock market, banking services, consumer credit, automobile ownership, preparing a budget, and more. Students will see the value of math in every lesson. It fulfills a third or fourth year math credit. A local midterm and final exam will be given.

**ALGEBRA 2 468- full year course 1 credit**

**PREREQUISITE: Geometry or Geometry R**

The course is designed to expose students to some basic concepts of advanced algebra, trigonometry and statistics. Topics include but are not limited to functions, radical expressions, quadratics and higher order polynomials, exponents, trigonometric ratios and laws, and univariate statistics. **This class is NOT a preparation for the Algebra 2 Regents Exam.** The class does fulfill a third year math credit. A midterm and local final exam are given.

**ALGEBRA 2R 458- full year course 1 credit**

**PREREQUISITE: Geometry R or Teacher Recommendation Regents Exam**

The course is designed to build on algebraic and geometric concepts. It develops advanced algebra skills such as systems of equations, functions, quadratics, higher order polynomials, complex numbers, exponential and logarithmic functions, sequences and trigonometric functions. It also introduces probability and statistics. A local midterm are given. Students will take the Algebra 2 Regents exam in June.

**ALGEBRA 2A 455- full year course 1 credit**

**PREREQUISITE: Geometry A or R with a Regents score of 80 or higher, and Teacher Recommendation. Regents Exam**

This course is an enriched section of Algebra 2 offered to highly motivated and capable students, most of whom have accelerated their study of mathematics. A more rigorous approach is given to all topics covered in Algebra 2R. A local midterm is given. Students will take the Algebra 2 Regents Exam in June.

**PRE-CALCULUS 429- full year course 1 credit**

**PREREQUISITE: Algebra 2R or Algebra 2A**

This course is designed as a preparation for Calculus. Topics include theory of functions and radicals, right triangle trigonometry, analytic trigonometry, law of sines, law of cosines, trigonometry with applications, vectors, polar coordinates, binomial theorem, and conic sections. A local final is given. This course is also available for college credit through Tompkins Cortland Community College.

**AP CALCULUS I 447- full year course 1 credit**

**PREREQUISITE: Algebra 2A or 2R with a Regents score of 80 or higher, and Teacher Recommendation**

This course is designed as a preparation for the Advanced Placement Exam (Calculus AB) in early May. Topics include limits, derivatives, applications of the derivative, techniques of integration, transcendental functions, applications of integration and separable differential equations. A midterm and local final exam are given.

**AP CALCULUS II 448- full year course 1 credit**

**PREREQUISITE: AP Calculus I**

This course is a sequel to AP Calculus I, and is designed as a preparation for the Advanced Placement Exam (Calculus BC) in early May. Topics include logistic equations, parametric, polar, and vector functions, Euler’s Method, sequences and series, Taylor Series, Maclaurin Series, Lagrange error, improper integrals, and other advanced Calculus topics. A midterm and local final exam are given.

**STATISTICS 446- semester course ½ credit**

**PREREQUISITE: Algebra 2R or Algebra 2 and an 83% GPA or greater**

This college level Elementary Statistics is available to juniors and seniors and is a course designed by Mohawk Valley Community College. This course introduces probability and statistics. Topics include graphs, table, frequency distributions, measures of central tendency and dispersion, normal distribution, correlation and regression, probability, and inferential statistics. A final exam will be given. This course (MATH 110) is also available for college credit through Mohawk Valley Community College.

**SAT MATH PREP 189- Fall Semester (every other day) ¼ credit**

This class is designed to assist students in their preparation for the two Math sections of the SAT Exam. The areas covered will be: Heart of Algebra focuses on linear equations, systems of linear equations and functions. Problem solving and Data Analysis includes using ratios, percentages, and proportional reasoning to solve problems in real world situations. Passport to Advanced Math focuses on non-linear functions (quadratic, exponential, etc.). Additional Topics in Math focus on key concepts from Geometry (volume, area, circles) Trigonometry (right triangles, trig rations, radian measure) and arithmetic of complex numbers. TI-84+ graphing calculator is necessary for the class.

**SOCIAL STUDIES**

The social studies focus is on the complexity of our social environment. The academic area combines the study of history and the social sciences and promotes skills in citizenship. As members of a society, OHS students need to understand how modern societies have developed and how they function. They need information concerning past societies and their links to present ones. If people are to act effectively as citizens in a democratic society, they need knowledge about central institutions and values in their own society and in other major societies around the world. It is important that they recognize the international nature of contemporary life. Defining problems and employing various kinds of information in seeking solutions to those problems require analytical skills and the ability to interrelate personalities, ideas, and events. Ideally, these critical skills are developed in the study of history and the social sciences. NYS requires that all students take four years of social studies. A prerequisite for graduation is the passing of the Regents’ exam following the completion of Global Studies in the sophomore year and United States History and Government in the junior year. The one- semester state-mandated courses for seniors are Economics and Participation in Government.

**SPECIAL CLASS GLOBAL 9 823- full year course 1 credit**

**PREREQUISITE: Teacher Recommendation**

This global history and geography course is designed to focus on the NYS social studies standards and common themes that recur across time and place. This course provides students with the opportunity to explore what is happening in various regions and civilizations at a given time. In addition, it enables students to investigate issues and themes from multiple perspectives and make global connections and linkages that lead to in-depth understanding of early man through the year 1750.

**GLOBAL STUDIES 9R 211- full year course 1 credit**

This is the first course in the Global Studies Sequence. Grade 9 begins with the Paleolithic Era and the development of the first civilizations, continues with an examination of classical societies, and traces the expansions of trade networks and their global impact. The course emphasizes the key themes of interactions over time, shifts in political power, and the role of belief systems. While the course emphas9izes the importance of historical and spatial thinking, all of the social studies practices and standards are included in the study of global history and geography.

**SPECIAL CLASS GLOBAL 10 829- full year course 1 credit**

**PREREQUISITE: Teacher Recommendation**

This is the second course in the Global Studies sequence. This class has a modified pace and curriculum based on the students’ levels. The student will study the history and cultures of East Europe, West Europe, the Commonwealth of Independent States and Latin America.

**GLOBAL STUDIES 10R 221- full year course 1 credit**

This is the second course in the Global Studies sequence. The student will study the history and cultures of East Europe, West Europe, the Commonwealth of Independent States and Latin America. Global Studies 10 follows the same format as Global Studies 9 with the addition of a culminating unit designed to cultivate within the student knowledge, skills and attitudes needed to function effectively in a world that is becoming more and more interdependent. At the completion of the course, the student will take the NYS Regents Exam in Global Studies

**GLOBAL STUDIES 10A 222- full year course 1 credit**

**PREREQUISITE: Teacher Recommendation**

The same basic course is covered with the advanced group as with the Regents program only in greater depth. Student will be exposed to multiple interpretations of historical developments. This course is available to take for college credit. **TC3 Course Description**: This course surveys the major historical developments of Western civilization from 1650 to the present. Special emphasis is placed on reading, interpreting, and discussing primary sources so students can comprehend the practice of historical research. HSTY 102 fulfills the SUNY General Education Western Civilization requirement.

**SPECIAL CLASS US HISTORY AND GOVERNMENT 828- full year course 1 credit**

**PREREQUISITE: Teacher Recommendation**

This course is a study of the development of American political, social, economic and cultural intuitions. This class has a modified pace and curriculum based on the student’ levels. An emphasis is placed on origin and development of the United States government; the changing nature of American society from 1865-1920; prosperity and depression 1917-1940; the age of global crisis; a world in uncertain times 1950 to the present.

**UNITED STATES HISTORY AND GOVERNMENT R 234- full year course 1 credit**

This course is a study of the development of American political, social economic and cultural institutions. Major emphasis is placed on the origin and development of the United States government; the changing nature of American society from 1865-1920; prosperity and depression 1917-1940; the age of global crisis- responsibility and cooperation; a world in uncertain times 1950 to present. At the completion of the course, the students will take the NYS Regents Exam in U.S. History and Government.

**AP UNITED STATES HISTORY 237- full year course 1 credit**

**PREPREQUISITE: Global Studies 10A or Teacher Recommendation**

Advanced Placement United States History is a challenging class. You should take this course if you have a strong interest in US History and if you are willing to take on a rigorous workload which will include extensive reading, writing, and other in-depth projects. The AP course is fundamentally different from the United States and Government Regents class. Not only will it cover all material needed to perform well on the New York State Regents (which all 11th grade students must take), the class will expose all students to a more comprehensive understanding of American History. We will debate historical controversies, read, and analyze primary source documents, and write many critical or position essays (both thematic and document based). We will highlight many influential people in history and demographic changes in the makeup of the United States. We will address the impact of the changes in religion and society as well as changes in economic thinking and foreign policy from the early days of the colonies to current day America. Summer assignments are required.

**SPECIAL CLASS ECONOMICS 834- one semester course ½ credit**

**Recommendation: This course is recommended for seniors**

**PREREQUISITE: Teacher Recommendation**

This course is designed to develop students’ knowledge, understanding, skills, values and attitudes for effective economic thinking that contributes to socially responsible, competent economic decision- making in a changing economy. This course meets the state standards in social studies in the area of economics, which is a required course for graduation from high school.

**ECONOMICS 241- one semester course ½ credit**

Economics is a one-semester course which covers the basic micro-and macro- economic definitions and concepts; supply and demand, employment, consumer behavior, means of production, fiscal and monetary policy, income, and forms of business. It also covers the practical application of these ideas within current systems. These goals will be achieved through the use of textbooks, reading, multimedia, web-based content, and independent research.

**SPECIAL CLASS PARTICIPATION IN GOVERNMENT 833- one semester course ½ credit**

**Recommendation: This course is recommended for seniors**

**PREREQUISITE: Teacher Recommendation**

This course is an introduction to the basic concepts of American government, the American political process and the rights and responsibilities of citizenship. The course is designed to meet the state standards in social studies in the area of government, which is a required course for graduation from high school. This course serves to create more informed citizens who are prepared to experience the challenges that comes from being an actively involved citizen.

**PARTICIPTION IN GOVERNMENT 245- one semester course ½ credit**

Participation in Government is an introduction to the analysis of public policy. The course is designed to give students basic research, communication and decision-making skills used in public policy analysis. Participation in Government is divided into ten units. The first six units constitute basic training in essential conceptual, information gathering, and analysis tools. The last four units require students to be conversant on a public policy issue of their choice.

**COLLEGE GOVERNMENT 259- one semester course ½ credit**

**PREREQUISITE: Teacher Recommendation**

Course equivalent to SUNY Oneonta POLS-121-US Government Participation in Government A will provide students with an introductory overview of American national government: constitutionalism, federalism, Congress, Presidency, bureaucracy, political parties, judiciary, public policy, elections, public opinion, and political behavior. While the course is designed to meet the state standards in social studies in the area of government, which is a requirement for graduation from high school, a greater emphasis on creating a collegiate environment of study will occur in this course. Through a comprehensive study of American Government, students will develop the required writing, analysis, and communication skills necessary for success in college. PIG A is a one-semester course; students must be recommended by their previous social studies teacher in order to be eligible for the class. Further, upon successful completion of the coursework, paperwork, and requirement payment, students may earn 3 college credits through SUNY Oneonta.

**AMERICA IN THE 1950’S 257- one semester course ½ credit**

Often characterized as dull and conformist, the 1950’s in America was a decade of enormous growth, energy, and variety. Many cultural and political movements that would explode on the American scene in the 1960s were already gathering momentum during the 50s. The baby boom, the rapid development of suburbs, and an increased professionalization of the middle class transformed American society. This course will explore many of these aspects of the fifties. There will be a common core of reading, viewing, and listening assignments. We will read and discuss several books about the 1950s, and a number of works written during the period. We will also watch several films from the period, and consider a few episodes of 1950s television. This elective is open to sophomore, junior and senior students.

**AMERICA IN THE 1960’s 258- one semester course ½ credit**

In their December 1969 issue, the editors of Life published a special issue on the 1960s, labeling it “The decade of Tumult and Change.” (Anderson. The Sixties) This course will cover the primary cultural, social and political events of 1960s America, including the civil rights movement, women’s rights and feminism, the Vietnam War and anti-war movement, the administrations of Kennedy and Johnson, the Great Society, and the counterculture. The course will explore the popular music, culture, and literature of each major topic. The focus will be examining various texts and speeches, from multiple perspectives, which will be brought to life through engaging discussions, debate and Socratic Seminar. A culminating Project will allow students to explore a topic interest from the 1960s. This class will be co-taught by teachers from the Social Studies and English Departments. This elective is open to junior and senior students. Recommended prerequisite is America in the 1950s, but it is not required.

**BROADCASTING 696- full year course 1 credit**

Broadcasting will focus on the components of video distribution, modern non-linear editing systems NLE, live streaming local events, journalistic reporting and production and distribution of weekly video announcements. This is a fluid course which may be taken for a full year for 1 credit or another option is adding this course either in the fall or spring for a ½ credit.

**BROADCASTING 699- semester course ½ credit**

Broadcasting will focus on the components of video distribution, modern non-linear editing systems NLE, live streaming local events, journalistic reporting and production and distribution of weekly video announcements. This is a fluid course which may be taken for a full year for 1 credit or another option is adding this course either in the fall or spring for a ½ credit.

**BROADCASTING 2 695- full year course 1 credit**

**PREREQUISITE: Broadcasting 1 694- one semester course ½ credit**

This class focuses on advanced skills and developing their favorite pieces of the first class. This section is tailored to their projects whether they be live streaming athletics, independent projects, or assigned projects. This class will have students working in elevated roles compared to that of broadcasting 1 as you come into class with more knowledge and experience. This course may be taken for a semester or a full year.

**HOLOCAUST 249- one semester course ½ credit**

The rise of modern anti-Semitism is studies with the documents that contributed to this prejudice. The course then traces the fall of Imperial Germany, the Weimar Republic and the rise of the Nazis and Hitler. The course then traces the policies of the Nazis to exterminate Jews from Europe. Included are segments of propaganda and modern-day genocides. Films, DVDs, lectures and readings will all contribute to the presentation of the material. Projects, reports and tests will be used to assess the students. There is no prerequisite for the course but it is suggested that a certain level of maturity is needed to deal with the emotionally difficult material.

**SCIENCE**

There is a strong commitment to integrating the education of all students into the total science program. The science program in the Oneonta City School District is designed to meet the needs of all students, no matter their experiential background, capabilities, developmental and learning differences, interests or ambitions. The Oneonta High School science program offers a variety of courses to students having varying interests and ability levels. With colleges currently placing an emphasis on academic rigor as a major factor affecting admissions, all OHS students are encouraged to take advantage of as many upper level courses as possible. Students are encouraged to exceed the minimum science graduation requirements (as set by the New York State Board of Regents) and take at least four sciences. A-level courses are designed for those students who accelerate their science course selection in the eighth grade, or for students who are highly motivated and intend to major in a science or related field in college. R-level courses are designed for the college bound students. Science 9 and Physical Science provide student who have experienced difficulty in a science with a program designed to enable them to be successful. *Admission to Science 9 and Physical Science is achieved by teacher recommendation only.*  Students are selected based on the criteria that they: (a) have difficulty achieving passing grades without support (b) demonstrate behavior that supports the learning process (c) consistently completes homework, class projects, activities, and labs on time (d) are motivated to learn and (e) demonstrate good work habits (i.e. students get to class on time, students are prepared for class, students follow classroom instructions and they seek help when needed.) \*Advanced science students will have completed Earth Science A in 8th grade.

**SCIENCE 9 309- full year course 1 credit**

**PREREQUISITE: Department Teacher Recommendation**

Science 9 is a program for motivated ninth grade students. The pace, content, and activities are designed to reinforce and foster the academic skills and knowledge necessary for the successful completion of future regents science courses. The program stresses life and physical science materials, while at the same time developing academic skills and priorities necessary for academic success in Regent’s science courses. Students will participate in five class periods per week.

**EARTH SCIENCE R 336- full year course 1 credit**

This course is designed for ninth grade students. It is a study of the earth environments (in space, in the atmosphere, on land and water) with respect to the past, present and future. Concepts basic to physics, chemistry and geology are unified in the study of the earth. The use of math, graphs, maps, and the collection and analysis of data is emphasized in the laboratory activities. Students will participate in 5 class periods per week and every other day for laboratory.

**SPECIAL CLASS SCIENCE 827- full year course 1 credit**

Special class science is a program of study for students with disabilities, who need specialized instruction in Science. These students are receiving their primary instruction separate from their nondisabled peers. The content of the class will include modified grade level curriculum in the area of biology, broken down into two years. Students will take a New York State regents exam in June after the second year.

**BIOLOGY 322- full year course 323- Laboratory 1 credit**

**PREREQUISITE: Department Teacher Recommendation Regents Exam**

Topics of study include biochemistry, human physiology, reproduction and development, modern genetics, modern evolutionary theory and ecology. Students will participate in 5 periods per week and every other day for laboratory.

**BIOLOGY R 324- full year course 325- Laboratory 1 credit**

**Regents Exam**

It is the intent of this course to give college-bound students an awareness of the natural world, basic scientific concepts, stimulation of inductive reasoning and a basic understanding of biological processes. Topics of study include biochemistry, human physiology, reproduction and development, modern genetics, modern evolutionary theory and ecology. Students will participate in 5 class periods per week and every other day for laboratory.

**BIOLOGY A 314 – full year course 315 – Laboratory 1 credit**

**PREREQUISITE: Department Teacher Recommendation Regents Exam**

This is an accelerated biology course designed to enable students to take a college-level science course in their senior year. It will present topics discussed in Biology R in greater depth and rigor. Students will participate in 5 class periods per week and every other day for laboratory.

**CHEMISTRY 330- full year course 315- Laboratory 1 credit**

**PREREQUISITE: Algebra & Teacher Recommendation Regents Exam**

This course is designed to present the topics of Regents chemistry in a manner in which students who have experienced past difficulty in science and/or math will have an opportunity to be successful on the Chemistry Regents Exam. Students will meet 5 class periods per week and every other day for laboratory. Additional remedial assistance may be scheduled.

**CHEMISTRY R 332- full year course 333- Laboratory 1 credit**

**PREREQUISITE: Algebra & Geometry Regents Exam**

Chemistry is the study of the structure and behavior of matter. Considerable emphasis is placed on the general periodic relationships of the elements, their atoms, ions and compounds. The course deals primarily with inorganic chemistry, although there is a brief introduction to organic chemistry. Students will meet for 5 class periods per week and every other day for laboratory.

**CHEMISTRY A 326 – full year 327- Laboratory 1 credit**

**PREREQUISITE: Algebra & Geometry, Biology A or Teacher Recommendation Regents Exam**

This is an enriched course designed for college-bound science majors. It will present the topics discussed in Chemistry R in greater depth and rigor. Students will meet 5 class periods per week and every other day for laboratory.

**PHYSICAL SCIENCE 320- full year course 1 credit**

**PREREQUISITE: Successful completion of two Science courses, one of which must include a lab component & Teacher Recommendation**

Physical Science presents a conceptual treatment of the major areas of physics and chemistry. The program is delivered in a “hands on” activity based style which seeks to develop a fundamental understanding of the core concepts in both areas. Some of the content utilizes mathematics. However, this approach is not stressed. Students will participate in five class periods per week.

**PHYSICS R 342- full year course 343- Laboratory 1 credit**

**PREREQUISITE: Two years of science Regents Exam**

This course presents a modern view of physics with a major emphasis placed on the fundamental concepts underlying this branch of science. It is intended for students with an average or above-average ability in math and science. Topics of discussion will include mechanics, waves and electricity. Students will meet for 5 class periods per week and every other day for laboratory.

**PHYSICS A 338- full year course 339- Laboratory 1 credit**

**PREREQUISITE: Chemistry A or Teacher Recommendation**

This is an enriched physics course designed for college bound science majors. It will present the topics discussed in Physics R in greater depth and rigor. Students will meet 5 class periods per week and every other day for laboratory.

**AP BIOLOGY 328- full year course 329- Laboratory 1 ½ credit**

**PREREQUISITE: 3 years of Science including Biology and Chemistry**

AP Biology is a college level, college paced, biology course. The program provides students with the conceptual framework, factual knowledge and analytical skills necessary in the rapidly changing field of biology. All students are expected to take the AP Biology Examination in May. Grading will follow the college format and students will be required to take a Midterm Examination in January, and a Comprehensive Final Examination in June. Students will meet every day for a double period.

**COLLEGE EARTH INVESTIGATIONS 3014- Fall Semester ½ credit**

**PREREQUISITE: Earth Science, Biology, and Chemistry**

Course provides an overview of the Earth’s natural processes such as rocks and minerals, plate tectonics, topography, weathering and erosion, meteorology, and the Earth in Space. Laboratories will provide for experiences in the application of the scientific method. Course may be taken for 3 college credits through SUNY Broome at no cost to the student.

**COLLEGE SCIENCE OF NATURAL DISASTERS 3015- Spring Semester ½ credit**

**PREREQUISITE: Earth Investigations**

Course provides an overview of natural disasters such as earthquakes, volcanic eruptions, floods, tsunamis, mass movement and severe weather. Laboratories will provide for experience in the application of the scientific method. Course may be taken for 4 college credits through SUNY Oneonta, cost $200.

**ASTRONOMY 358- Semester course ½ credit**

**PREREQUISITE: Completion of Algebra 1R**

This is a half year course that provides students with an introduction to general astronomy topics that include the history of astronomy, patterns of motion in the sky, the formation and characteristics of the solar system, stars and stellar evolution, galaxies, cosmology and methods used to explore these phenomena. The class will contain the use of equations; therefore, a solid background in Algebra and scientific notation is necessary.

**WORLD LANGUAGES**

Knowledge of a second language fosters greater awareness of cultural diversity among people of the world. Individuals possessing second language skills can readily appreciate different values and ways of life. These skills permit greater communication among people to facilitate the exchange of ideas and information in all areas of human activity. OHS offers a choice of French, German and Spanish. These courses are excellent preparation for students who would like to understand, speak, read, and write these languages. In the 21st century, it is imperative to be proficient in another language as well as culturally literate due to increased globalization. Upon graduation, all students must have completed at least one unit of study in a world language. Students who wish to get a Regents’ Diploma with Advanced Designation must complete three units of study. Language students are encouraged to join the French, German, and Spanish Clubs. Club activities expand upon cultural elements that are learned in the classroom. Meetings are held in English and are open to all students. Upperclassmen interested in higher level studies have the option to apply for admission to the honor society of their language and/or the New York State Seal of Bi-literacy. In the past, language club members have traveled abroad to Canada, Costa Rica, Mexico, Germany, Austria, France, Spain, and Switzerland. The World Language Department holds an International Fair every other year in November.

**FRENCH**

**FRENCH I 610- full year course 1 credit**

This level develops the fundamental skills of listening, speaking, reading and writing with the introduction to the geography and culture of the French-Speaking world. Students practice pronunciation, vocabulary and language patterns with the goal of communicative competency.

**FRENCH II 620- full year course 1 credit**

**PREREQUISITE: French I**

French II expands and develops the skills presented in the first level. Authentic resources are included at this level to foster conversation and illustrate grammar and syntax in a variety of cultural settings.

**FRENCH III 630- full year course 1 credit**

**PREREQUISITE: French II**

French III makes the transition to more challenging reading and writing for vocabulary development and grammatical refinement. Students will communicate in past, present and future tenses. An emphasis on listening and speaking skills continues in preparation for the Comprehensive Exam.

**COLLEGE ELEMENTARY FRENCH I 646- fall semester course ½ credit**

**PREREQUISITE: French III (A grade of 85 or higher in French III is highly recommended.)**

This course reviews and refines French language with an emphasis of oral communication. Readings will be longer and more in-depth. Students will explore various cultures of French speaking regions in the world using printed and online media, film, music, cuisine, and art. This course will be conducted entirely in French. This course is also offered for college credit from Mohawk Valley Community College.

**COLLEGE ELEMENTARY FRENCH II 647- spring semester course ½ credit**

**PREREQUISITE: College Intermediate French I**

This course continues to review and refined French language with an emphasis of oral communication to produce spontaneous speech. Students will explore various cultures of French-speaking regions in the world using printed and online media, film, music, regional cuisine and art. This course is combined with College elementary French I and will give the student more time to develop and refine language skills. The class will be conducted entirely in French. This course is also offered for college credit from Mohawk Valley Community College.

**GERMAN**

**GERMAN I (8th grade) 612- full year course 1 credit**

Level I develops the fundamental skills of listening, speaking, reading and writing in the target language. A variety of topics are addressed including geography and culture of the German speaking world. Students practice pronunciation, vocabulary and language patterns with the goal of communicative competency.

**GERMAN II 622- full year course 1 credit**

Level II expands and develops the skills from Level I. Supplemental readings are included to foster conversation and illustrate grammar and syntax in a variety of cultural settings.

**GERMAN III 632- full year course 1 credit**

This course makes the transition to more challenging reading and writing for vocabulary development. Emphasis on listening and speaking skills continues in preparation for the Comprehensive Exam.

**COLLEGE GERMAN 642- full year course 1 credit**

**PREPREQUISITE: German III**

This course reviews and refines the German Language with an emphasis on oral communication in the present and past tenses. Topics include modern communication, studying at a German university, life in a divided Germany, degenerate art, fairy tales and other topics concerning modern day Germany. Students will explore these topics and the culture of the German speaking countries via film, art, technology, and other media. The class will be conducted mostly in German. This course is offered for college credit through SUNY Broome.

**SPANISH**

**SPANISH I 611- full year course 1 credit**

**Note: This course is intended for remediation and/or transfer students**

This course develops the fundamental skills of listening, speaking, reading and writing with the introduction to the geography and culture of the Spanish speaking world. Students practice pronunciation, vocabulary and language patterns with the goal of communicative competency.

**SPANISH II 621- full year course 1 credit**

**PREREQUISITE: Spanish I**

Expands and develops the skills of the first level. Supplemental readings are included at this level to foster conversation and illustrate grammar and syntax in a variety of cultural settings.

**SPANISH III 631- full year course 1 credit**

**PREREQUISITE: Spanish II**

Spanish III makes the transition to more challenging reading and writing for vocabulary development and grammatical refinement. Students will communicate in past, present and future tenses. An emphasis on listening and speaking skills continues in preparation for the Comprehensive Exam. Students must pass the Comprehensive Exam to earn credit for this course.

**COLLEGE ELEMENTARY SPANISH I 664- fall semester course ½ credit**

**PREREQUISITE: Spanish III (Achieving a grade of 80 or higher)**

This is a continuing course for students who have successfully completed Spanish III, or have prior language experience and are admitted by placement testing. Students may sign up for 3 credits in the fall term through SUNY Mohawk Valley Community College (MVCC) at no cost but must prove Otsego County residence. This is a proficiency based course for high beginners which continues to develop the four language skills (listening, speaking, reading and writing) and which prepares students to communicate effectively in both written and spoken Spanish on a variety of topics related to exploring Spanish speaking countries: Nicaragua and Bolivia. The focus on the projects are based on understanding climate change, how these countries are affecting change to combat it through the creation of laws to protect the environment, geothermal energy, and education. We will be using the National Geographic/Cengage Learning book, on-line edition and workbook.

**COLLEGE ELEMENTARY SPANISH II 665- spring semester course ½ credit**

**PREREQUISITE: College Elementary Spanish II (Achieving a grade of 80 or higher)**

This is a continuing course for students who have successfully completed College Elementary Spanish I, or have prior language experience and are admitted by placement testing. Students may sign up for 3 credits in the spring term through SUNY Mohawk Valley Community College (MVCC) at no cost but must prove Otsego County residency. This is a proficiency base course for high beginners which continues to develop the four language skills (listening, speaking, reading and writing) and which prepares students to communicate effectively in both written and spoken Spanish on a variety of topics related to exploring Spanish speaking countries: Dominican Republic, Chile and a cumulative project. A field trip to the National Baseball Hall of Fame Hispanic Exhibit in Cooperstown occurs in early April. We will be using the National Geographic/ Cengage Learning book, online edition and workbook.

**SURVEY OF WORLD CULTURES** **627- full year course 1 credit**

This course addresses current cultural topics in various regions around the world. The course is taught in English and will address basic language formalities, geography, and cultural topics of multiple world regions and languages. While this course will satisfy the NYS world language credit for graduation it is not part of a Regents level language sequence.

**HEALTH AND PHYSICAL EDUCATION**

**HEALTH**

The Health Education program at OHS is designed and conducted as an integral part of the total education program. The program gives students knowledge drawn from the fields of psychology, medicine, social science and environmental science. Students obtain knowledge about personal growth and development and factors which influence individual and societal health status, lifestyles, and behaviors. The program is designed to encourage individuals to become health literate and encourages a commitment to personal health promotion and maintenance. **A one-half credit course is required for graduation.**

**HEALTH 011- one semester course ½ credit**

This one semester required course focuses on understanding, attitudes and behaviors regarding the multi-dimensions of health targeted for grades 10 and above. Alcohol, Tobacco/Nicotine, and other drugs, Nutrition & Physical activity, growth, development and sexuality, intentional and unintentional injuries, mental health and wellbeing, personal health and safety, how to prevent disease and illness, including HIV and AIDS have been identified by The Center for Disease Control as key areas that adolescents are placing themselves at risk for disease/illness. This program focuses on these areas to give students knowledge and skills to maintain, or develop health-enhancing behaviors and the tools necessary to avoid or refuse health compromising behaviors that place an individual at risk. In an academic and highly interactive setting with an emphasis on in class discussions and participation. This course helps students develop an understanding of the nature of health, its maintenance, and threats to it.

**COLLEGE INTRODUCTION TO PSYCHOLOGY 275- one semester course ½ credit**

This is a half year three college credit course available to juniors and seniors. The content area reflects basic psychological foundations and current information regarding social science of psychology. Students will be exploring major concepts, theoretical perspectives, and research findings. Students will gain a general understanding of human behavior and its principles. This course (PSYC 103) Introduction to Psychology is also offered for 3 college credits through Tompkins Cortland Community College.

**MENTAL AND EMOTIONAL HEALTH 013- one semester course ½ credit**

This class is designed for juniors and seniors who are willing to participate in open class discussions. It is a half year health elective for .5 credits. It will be co-taught by the health teacher and library media specialist. It will only be offered during the spring semester. This course will consist of mental and emotional health. Specifically geared towards the 5 components of emotional intelligence, which are self- awareness, self-regulation, social skills, empathy and motivation. We will also focus on depression and suicide/suicide prevention. The course will also include sexual reproductive health with a more in depth look into adolescents and healthy relationships. This will be done through open discussions pertaining to consent, rape, culture, gender roles, stereotypes and sexual orientation. Assessment of this course will be done through journaling/self-exploration, open discussions, films, books, possible field trips, research projects and personal reflection. We will also focus on how social media in today’s society impacts adolescent emotional and sexual intelligence.

**PHYSICAL EDUCATION full year course ½ credit per year**

Regular attendance and satisfactory participation in physical education class are required each semester a student is in high school. Students will recognize and develop their own abilities while forming an appreciation for the talents of others. At OHS, the first two years (grades 9-10) are concerned with instruction in skills and tactics in both individual and team sports, instructional activities in these grades give students an opportunity to learn individual skills, team tactics and the rules and procedures for a variety of sports. This exposure to many activities should help student spectators to be more informed. Juniors and seniors choose from a variety of activities for an elective program which is essentially recreational in nature. Lifetime sports and activities, which hold carry-over value into adulthood, are an important part of the elective offering. Class time is divided between skill work and playing of the game. Listed below are those sports included in the instructional program with a brief mention of the areas of focus.

**SOCCER:** The focus is on dribbling, passing, trapping, heading, shooting on goal, defending without contact, position play and goal keeping.

**TOUCH FOOTBALL:** The focus is on stance and starts, forward pass and pass patterns, proper receiving techniques, punting, and the duties of the offensive and defensive lines. Emphasis is placed on the difference between touch and regular football.

**BASKETBALL:** The focus is on dribbling, chest and bounce passes, mechanics of jump shot and lay-ups from both sides, fast break, rebounding, movement of feet, correct use of hands, and man-to-man and zone defense.

**VOLLEYBALL:** The focus is on power volleyball skills (sets, digs and bumps), use of “three hit” technique (dig, set, hit), service, blocking, net play, and course positions and responsibilities.

**SOFTBALL:** The focus is on throwing, catching, batting, base running, and field positions and responsibilities.

**TRACK AND FIELD:** The focus is on spring starts, techniques for dashes and distance races, relay-baton passing, long jump, high jump, low hurdles and shot put.

**ELECTIVES: (grades 11 and 12)** Aerobics, Archery, Badminton, Bocce, Cardio Room Fitness, Conditioning, Cooperative Games, Cross-Country skiing, European Handball, Floor Hockey, Golf, Indoor Soccer, Lacrosse, Snowshoeing, Racquetball, Table Tennis, Ultimate Frisbee, Weight Training, Whiffle Ball.

**COLLEGE FITNESS AND WELLNESS 037- one semester course ½ credit**

**Recommended: Juniors and seniors**

This is a half year, every other day course. Students participate in an individualized fitness program. Each student will be tested for fitness levels in cardio- respiratory, muscle strength and endurance, flexibility and body composition. Results of the profile will help determine a workout routine or classroom activity. Discussions on chapter topics (including Wellness topics) and tests will assist students in making healthy lifestyle choices. This course may be taken for college credit through SUNY Broome.

**CPR/AED & First AID CERTIFICATION COURSE 038- one semester course ½ credit**

**Recommended: Sophomores, juniors and seniors**

This is a half year, every other day course. This course is under the fast Forward SUNY Broome program and you would receive one college credit. This course teaches the causes, prevention, and response to accident emergency lifesaving situations in the community and the healthcare setting. Emphasis on recognizing, managing and responding to medical emergencies and maintaining emergency supplies. Course will also include American Heart Association Professional Rescuer CPR Certification and AED training. After successful completion of the course you would receive a two year America Heart Association certification card in CPR/AED and First Aid. Course listed under MDA 114L-First Aid at SUNY Broome. This course requires a $25.00 fee for the certification card.

**FINE ARTS**

To qualify for graduation, all Oneonta High School students must have completed at least one credit of art and/or music. The courses that may be used to satisfy this requirement are:

* Studio in Art - Media Arts
* Music in our Lives - Design and Drawing for Production
* Band - Chorus

**VISUAL ARTS**

The Visual Art Department provides excellent preparation for those students who wish to pursue a career in the field of art and provides an equally important opportunity for those students who want an enriching experience in the arts. Through art courses, the student becomes familiar with the concepts of art which include using imagination and creativity, developing perception, exercising value judgements, working with problem solving, and learning techniques/skills. Students who plan to pursue art in college or as a career should complete the following courses: Studio in Art or Media Arts, Studio in Drawing & Painting or Studio in Computer Art & Photography, Art History, Advanced Art and two electives.

**Foundation Visual Arts Courses**: Students must successfully complete one of the following Foundation Courses BEFORE taking any Secondary Level Visual Art Classes.

**STUDIO IN ART: A Comprehensive Foundation Course 714- full year course 1 credit**

Studio in Art introduces students to the elements and principles of design, traditional and contemporary artists/artworks, and various two-dimensional and three-dimensional media. This course created student artists who are well-versed in the language and concepts of art, are capable of working successfully in multimedia, and are creative problem solvers. The goal of the Studio in Art course is to introduce the students to the experience of art and prepare them for the more advanced art courses.

**MEDIA ARTS I: A Comprehensive Foundation Course 715- full year course 1 credit**

Media Arts introduces students to the elements/principles of design and traditional and contemporary artists/artworks through the use of technology. Digital Media is taught in a computer art lab equipped with: drawing tablets, digital cameras, and photography lighting equipment, Adobe Photoshop, scanner and a color laser printer. This course creates student artists who are well-versed in the language and concepts or art, are capable of working successfully in digital media, and are creative problem solvers. The goal of the Media Arts course is to introduce students to the experiences of art through the use of digital media to prepare them for the more advanced art courses.

**Secondary Level Visual Arts Courses:** Students may choose any of the following art courses AFTER COMPLETION of a foundation Visual Arts Course.

**STUDIO IN DRAWING & PAINTING I 721- full year course 1 credit**

The drawing course begins by teaching students how to draw and use traditional drawing media (graphite, watercolor, charcoal, pastel, and pen & ink). By mid-year, students are expected to have mastered the ability to render drawing subjects with accuracy and realism. After mid-year, projects become more involved and challenging; requiring more original problem solving from the student. The artwork created in this course is meant to be the starting point for a college entry portfolio. Students taking this course are also expected to complete weekly sketchbook assignments designed to improve drawing ability and further develop creative problem solving skills.

**STUDIO IN DRAWING & PAINTING II 722- full year course 1 credit**

**PREREQUISITE: Studio in Drawing & Painting I**

An upper level course designed for students who wish to further develop skills and techniques that are introduced in Studio Drawing and Painting I. Students in Drawing and Painting II will focus on developing an advanced ability to draw and paint from observation. Students will be encouraged to expand their creative ideas as well as their technical potential. Projects will become more involved and challenging; requiring more original problem solving from the student. Focus will be placed on dry mediums with a switch mid-year to wet. In addition to watercolor and acrylic, this course will introduce students to oil painting. This is a desirable course for any student wishing to further develop or complete their portfolio for college. Students taking this course will continue completing weekly sketchbook assignments designed to improve their drawing ability and further develop their creative problem solving skill.

**MEDIA ARTS II 724- full year course 1 credit**

**PREREQUISITE: Media Arts I**

Skills developed in Media Arts will be expanded upon to enable students to direct their use of digital media. Students will continue to use Adobe Photoshop and digital cameras. Different artists and styles will be introduced to aid in more complex artistic choices and decisions with problem solving for projects. Students in this course are required to complete technology tasks and weekly photo-image journal assignments designed to improve media skills and creative problem solving skills \*digital camera required\*

**STUDIO IN CERAMICS 738- one semester course ½ credit**

Studio in Ceramics is a project-oriented art class. Students will explore a broad range of techniques and approaches or art through hand built, poured mold, and wheel thrown clay. Students will learn to approach ceramic artwork as both functional and decorative. Students will study specific artists, cultures, and historical art movements as related to each project.

**STUDIO IN SCULPTURE 744- one semester course ½ credit**

This course is designed to give students an opportunity to explore three dimensional art. The goals for this course are to: introduce students to traditional and contemporary forms of sculptural art (including styles, artists and artwork), teach basic techniques and vocabulary in a variety of 3D mediums, and teach students how to create, work through, and evaluate their own works.

**ADVANCED ART 735- full year course 1 credit**

**PREREQUISITE: Studio in Drawing and Painting I & II**

Advanced Art was created to challenge the creativity and ability of art students. Students in this class are expected to already have mastered the skill of rendering subjects realistically and accurately. The goals of this course are to increase students’ artistic vocabulary, further their understanding of how to use design elements, learn new techniques in a variety of media, and develop a personal artistic style. Advanced Art students will be required to: complete two teacher-directed projects each quarter, complete two student-directed projects each quarter, complete a sketchbook assignment each week, complete an image journal entry each week, participate in class critiques, write an Artist’s Statement, and participate in a Midterm Review and a Final Review.

**MUSIC**

The Music Department provides an excellent opportunity for students to experience the discipline and creativity within the many varied aspects of music. The Music Department also allows students who excel in music to gain preparation in pursuing a career in the field. Through performance and classroom courses, the student learns the concepts of music which develop creativity and imagination, aesthetic pleasure, and development of finely- honed skills. Through the music program students experience the unique satisfaction of organizing and reorganizing their ideas of exercising value judgements and developing perception and skills.

**CONCERT BAND 751- full year course 1 credit**

**PREREQUISITE: Freshman- OMS Band Director Recommendation; Upperclassmen- Director Approval**

The OHS Concert Band is designed to help students progress their instrumental skills, expose students to a variety of musical styles, and teach students how to perform artistically. Regular small-group lessons are required as well as several performances outside of the school day. It is expected that students will stay enrolled in the Concert Band for all four years of high school. Students interested in also performing with the Concert Choir may audition for a limited number of openings in the Band/Choir course.

**BAND/CHOIR 753- full year course 1 credit**

**PREREQUISITE: Freshman- Audition; Upperclassmen- Approval of both Directors**

This is an option for outstanding musicians to participate in both the Concert Band and the Concert Choir. Students will attend rehearsals of the respective groups on alternating days. Students are expected to attend all scheduled lessons for both the Concert Band and the Concert Choir as well as attend all performances.

**CHORUS 757- full year course (every other day) ½ credit**

This is a non-auditioned group open to any student who is interested in exploring and improving their singing voice in a supportive setting. There are three required concerts a year and vocal lessons each quarter. No music reading skill required.

**CONCERT CHOIR 760- full year course 1 credit**

**PREREQUISITE: Freshman- OMS Choir Director Approval; Upperclassmen- Director Approval**

This is a select, auditioned group. Students are accepted on the basis of their individual ability to read music, vocal quality, attitude and maturity, and enthusiasm for signing. There are at least three required performances a year and community performances. Students are required to come to vocal lessons each quarter and are encouraged to audition and participate in honors ensembles such as All-County, Area All- County, and Area All-State as well as NYSSMA solo festival. Outstanding singers who are admitted to concert choir are encouraged to participate in chorus as well, for one and a half credits per year. It is expected that students will stay enrolled in the Concert Choir all four years of high school.

**MUSIC IN OUR LIVES 754- one semester course ½ credit**

In this hands-on music course, students will focus on learning music through the study of guitar. Students will play guitar every day. The emphasis will be on pop, rock, and folk styles, though there will be additional opportunities to learn other styles as well. Music reading, music theory, and study of different styles of music will be introduced, as well as some music history.

**MUSIC IN OUR LIVES II 764- one semester course ½ credit**

**PREREQUISITE: Music in Our Lives**

This course is a continuation of Music in Our Lives. In this hands-on course, students will continue learning music theory through the study of piano. Students will be introduced to various styles of music through listening activities. Students will have the opportunity for more in-depth projects that relate to their personal interests in music.

FOUNDATIONS OF MUSIC 755- full year course 1 credit

PREREQUISITE: Concert Band and/or Concert Choir (Alternate years 2024-2025)

This is an advanced music course in which we study the history and evolution of West music- beginning with Gregorian chant and continuing through the classical jazz eras. Students will learn to hear the differences in the various styles as well as become familiar with representative composers and major works. This is the equivalent of the College Freshman level class.

**SONGWRITING 759- full year course 1 credit (Alternate years 2023-2024)**

**PREREQUISITE: Concert Band, Concert Choir or Music in our Lives II; ability to read music**

Learn the skills to write and record your own songs. Musically, we will study basic music theory- scales, chords, harmony, song structure, melody writing, and ear training. In the computer lab, we will use a digital audio workstation to learn how to record and produce our songs into finished products.

**CAREER AND TECHNICAL EDUCATION**

Career and Technical Education offers students an opportunity to experience various technical areas in which they might be interested in pursuing a career. It also offers practical and valuable life experiences for all students whether they choose to pursue higher education goals or enter directly into the work force or military. **Classes denoted with an asterisk (\*) are locally approved for Career and Technical Education (CTE) credit.**

**CAREER EXPLORATION: 9/10 866- full year course 1 credit**

Do you know what you would like to do when you graduate? Want to explore careers both in school and out in the real world? Check out different careers and find out what skills employers expect of their workers. Get to know yourself and how your skills, aptitudes and abilities relate to future career decisions. Hands- on experiences like field trips to businesses, job shadows, interviewing professionals, and volunteer work are part of this class. Course is available for any 9th or 10th grade student and may be taken in both 9th and 10th grade.

**CAREER EXPLORATION: 11/12 867- full year course 1 credit**

Do you know what you would like to do when you graduate? Want to explore careers both in school and out in the real world? Check out different careers and find out about workforce expectations. Get to know yourself and how your skills, aptitudes and abilities relate to future career decisions. Hands-on experiences like field trips to businesses, job shadows, and interviewing professionals are part of this class. Depending on your level of interest, long-term volunteer work or internships within a career field of your choice may be options *Successful completion may allow a student to earn a Career Development and Occupational Studies (CDOS) Commencement Credential.* Course is available to any 11th or 12th grade and may be taken in both 11th and 12th grade.

**WORK BASED LEARNING: 9/10 (Special Class Placement) 868- full year course 1 credit**

**Requirements: Teacher Recommendation**

What would you like to do after high school? Check out jobs in the area and practice skills you will need once you are working. Get to know yourself and how the things you like and enjoy can fit into a job you might decide to have in the future. Find out what a boss really expects of you! Work related experiences include field trips to local businesses, working in the Beehive Market (a school based business), and volunteer experience. Experiences are individualized to meet the needs of the students in the class for that year.

**WORK BASED LEARNING: 11/12 (Special Class Placement) 869- full year course 1 credit**

**Requirements: Teacher Recommendation**

What would you like to do after high school? Check out jobs in the area and practice skills you will need once you are working. Get to know yourself and how the things you like and enjoy can fit into a job you might decide to have in the future. Explore expectations of the work force. Work related experiences include field trips to local businesses and working in the Beehive Market (a school based business). Students have the opportunity to do long-term volunteer work and/or internships to try out work in a variety of settings. Experiences are individualized to meet the needs of the students in the class for that year. *Successful completion may allow a student to earn a Career Development and Occupational Studies (CDOS) Commencement Credential.*

**BUSINESS AND MARKETING**

Business Education at OHS is designed to offer a variety of educational opportunities and practical experiences for all students. Career information, computer skills, and specialized business and economic courses are offered.

**\*CAREER AND FINANCIAL MANAGEMENT I 501- one semester course ½ credit**

This course is designed around a variety of activities and learning experiences that help students become aware of a broad spectrum of occupations and to develop skills, attitudes, and knowledge that will be applicable to all entry-level employees in a variety of career areas. Topics covered include: personal characteristics necessary for success on the job, the working citizen, managing money, career interests, the job application process, interviewing, human relations, and setting and achieving goals.

**\*KEYBOARDING 503- one semester course ½ credit**

This is a one-semester course designed to develop alphabetic and numeric keyboarding skills needed for both occupational and personal use. Students will be taught the touch method of keying information. Effort is directed at speed development plus basic forms of written communication such as personal letters, business letters, memorandums and report/term paper preparation.

**\*SPORT MANAGEMENT 500- one semester course ½ credit**

**PREREQUISITE: Recommended for juniors and seniors**

This is a one- semester course which gives students an overview of sports management and marketing. Students will explore the history and philosophy of sports, legal issues, ethics, intercollegiate athletics, professional sports, coaching, careers, and current issues in the sporting world.

**FAMILY AND CONSUMER SCIENCE**

Family and Consumer Sciences education empowers individuals to manage the challenge of living and working in a diverse global society by preparing students for success in both postsecondary education and employment. The unique focus of the program is on families, work, and their interrelationships with its roots in both academic and career/technical education. It reaches beyond the educational system and inter the community by focusing on the needs of individuals and families. It further fosters students’ attainment of the NYS Learning Standards in both Family & Consumer Sciences (FACS) and Career Development and Occupational Studies (CDOS).

**\*FOOD AND NUTRITION 522- one semester course ½ credit**

Have fun learning how to prepare and cook foods in a group setting. Lab and classroom experiences will be based on learning how to select, prepare, cook, and store various foods with guidance from a variety of quality resources including [www.chosemyplate.gov/](http://www.chosemyplate.gov/) . Emphasis will be placed on meeting health, safety, and sanitation needs. Information pertaining to nutrition, dietary guidelines, and career will also be included in the course. Students will learn the principles of baking and cooking with quick breads, grain products, fruits, vegetables, eggs, and dairy products.

**\*GOURMET FOODS 526- one semester course ½ credit**

**PREREQUISITE: Successfully pass Foods and Nutrition**

**Recommended: Juniors and seniors**

This course is designed to expand on the knowledge learned in Foods and Nutrition class. Further emphasis will be placed on selecting, preparing, cooking, and preserving various foods. Principles associated with baking cookies, cakes, pastries, and yeast breads will be addressed. Students will also learn principles to cook poultry, beef, pork, fish, shellfish, casseroles, soups and prepare salads. Moreover, you will learn about herbs, spices, and garnishing techniques. Information related to careers in food and nutrition will be included in the course.

**\*CULTURAL FOODS 527- one semester course ½ credit**

**PREREQUISITE: Successfully pass Foods and Nutrition/ Pass Gourmet Foods with an 85 or higher**

This course is designed to let the student experience, study, prepare and learn about foods from around the world. Students will be encouraged to add an artistic element to foods prepared during labs. This course is appropriate for both students seeking a career in the food industry, as well as those interested in simply learning about food from other cultures.

**\*CHILD DEVELOPMENT 529- one semester course ½ credit**

**Recommendation: Grades 10-12**

This course emphasizes learning experience which help students gain knowledge and understanding of the intellectual, physical, social and emotional development of children from conception through three years. It starts with decision-making steps toward having a family. The course includes nutrition and prenatal development, how to take care of a baby, child growth and development, why children behave the way they do, how play is children’s work, how to discipline children, communication techniques, and planning activities for children of various ages. Part of the course work includes guided observations of children with participation in the early childhood setting. Information related to careers in child care is incorporated throughout the course.

**\*FASHION OPPORTUNITIES 594- one semester course ½ credit**

Designed to introduce the student to the fashion world, this course provides students opportunities to develop knowledge and understanding of textiles, fashions and fabrics and to assist them in meeting the clothing and fabric product needs of themselves, families and/or general public. Information and experiences providing students with an understanding of the psychological aspects of fabric products as related to the needs of people, and the jobs and careers using competencies related to textiles and fabrics are included throughout the course. Development of skills necessary for decisions related to personal image and clothing, and textiles will be stressed. Students will study trends in fashions and career opportunities. Read-to-wear clothes, as well as clothing constructed by the student, will be used as a basis for learning about clothing, fabric care, and sewing skills. The student will be introduced to the elements of fashion principles of design and visual display.

**SPECIAL CLASS INDEPENDENT LIVING 832- one semester course ½ credit**

**PREREQUISITE: Teacher Recommendation**

This course is designed to prepare students for the realities and responsibilities of managing all aspects of adulthood; education, career, interpersonal relationships, civic involvement, home, health, and financial security. Students will learn to make knowledge-based decisions as they learn to navigate the demands of post- graduation. The course will provide students with learning experiences that are hands-on, engaging, and involve application of information and skills to real-life situations.

**TECHNOLOGY**

Technology Education is a comprehensive, action based educational program focused on technical means, evolution, industry, personnel, resources, design, fabrication, and their social and cultural impact on society. Technology education at the commencement level is critical for those students that wish to pursue a career in an S.T.E.M (Science, Technology, Engineering, Mathematics) related field. With advances in technology and a focus on the future, students will gain valuable knowledge and the skills necessary to prepare them to be competitive in the field of technology.

**\*DESIGN AND DRAWING FOR PRODUCTION 597- full year course 1 credit**

**PREREQUISITE: Middle School Technology**

Designing is a process used to plan and produce a desired result. Designing is necessary to solve problems in order to satisfy the needs of society for the purpose of solving a problem. This course will utilize a combination of problem solving, creative design techniques, and a process called informed design. This course will provide students with a better understanding of the concepts and vocabulary related to the fields of design, engineering and production. Through the use of computer-aided design, basic sketching, and the willingness to be creative, students will research, design, and develop products to solve problems. Every day we are faced with problems that require solutions, students that take this course will be part of the solution.

**COMPUTER AIDED DESIGN (CAD I) 548 – semester course ½ credit**

**PREREQUISITE: Design and Drawing for Production**

CAD is software used by architects, engineers, drafters, artists and others to create precision drawings or technical illustrations. CAD software can be used to create two-dimensional (2-D) drawings or three-dimensional (3-D) models. This course will expose students to CAD terminology, history, components, applications, design functions and careers. The majority of the time spent in this course will consist of using CAD systems for design applications. Students will acquire technical drawing skills and be able to apply what they have learned to many challenging activities.

**COMPUTER AIDED DESIGN (CAD II) 549 – semester course ½ credit  
PREREQUISITE: COMPUTER AIDED DESIGN (CAD I)**

This course is a continuation of CAD 1 with a focus on Architectural Drawing and architecture specific applications, including building information modeling (BIM). Students will learn how to use industry leading Architectural CAD programs (Autodesk AutoCAD and Autodesk Revit) to mode construction projects and create industry standard architectural drawings. The majority of the time spent in this course will consist of using CAD systems for design applications with occasional hand drafting. Students will be able to create 2D representations of 3D objects such as plan views, elevation views and section views to produce hard copies for printing. Class will meet daily for a semester in the HS CAD to complete assignments that provide hands on task-oriented projects to practice your skills.

**HOME MAINTENANCE AND WELDING FUNDAMENTALS 523- fall semester ½ credit**

Technology is a very exciting subject. It affects what you wear, how you will travel, what you eat, how you communicate, the comfort in your homes, and much more. This course is designed to help you understand and contribute to the technological world around you. Home Maintenance and Welding Fundamentals provides up-to-date information about safety, equipment, methods, and materials used in residential and light construction systems. Learn about the procedures and techniques of modern trades and how they apply to a wide-range of occupations. This fundamental course addresses an industry need for persons who are capable and able to understand and apply their skills to the workforce. Each topic and skill is presented in clear and simple language and will be helpful for future employees and homeowners. Topics include: learning to work safely, hand tools and power tools, machines, electrical and plumbing terms, outlet receptacles and boxes, service requirements, modern electrical systems, plumbing problems, plastic pipe and tubing, running pipe through walls, careers, welding symbols, welding joints and positions, welding equipment and supplies, and much more! This is a fluid course which may be taken for a full year for 1 credit or another option is adding this course either in the fall for a ½ credit.

**HOME MAINTENANCE AND WELDING FUNDAMENTALS 524- full year course 1 credit**

**(Must pass fall semester to continue)**

Technology is a very exciting subject. It affects what you wear, how you will travel, what you eat, how you communicate, the comfort in your homes, and much more. This course is designed to help you understand and contribute to the technological world around you. Home Maintenance and Welding Fundamentals provides up-to-date information about safety, equipment, methods, and materials used in residential and light construction systems. Learn about the procedures and techniques of modern trades and how they apply to a wide-range of occupations. This fundamental course addresses an industry need for persons who are capable and able to understand and apply their skills to the workforce. Each topic and skill is presented in clear and simple language and will be helpful for future employees and homeowners. Topics include: learning to work safely, hand tools and power tools, machines, electrical and plumbing terms, outlet receptacles and boxes, service requirements, modern electrical systems, plumbing problems, plastic pipe and tubing, running pipe through walls, careers, welding symbols, welding joints and positions, welding equipment and supplies, and much much more! This is a fluid course which may be taken for a full year for 1 credit or another option is adding this course either in the fall or spring for a ½ credit.

**BOCES CAREER AND TECHNICAL EDUCATION**

These courses are offered at the Otsego Area Occupational Center (BOCES). They are open to juniors and seniors.

**PREREQUISITE: Must have a minimum of 9 high school credits to attend the BOCES program and a minimum of one credit of Science and one credit of Math.**

**AUTOMOTIVE SERVICE CENTER TECHNICIAN 553 & 554 – Full year course 4 credits**

Be prepared for an entry level position in the automotive repair industry by enrolling in this two-year program. Students train to diagnose and repair computer, electrical, and mechanical failures using the latest equipment and procedures. The theory of automotive systems is explored through classroom instruction giving the student a

working knowledge of today’s ever-changing technologically advanced automobiles. This program also prepares students for further study in college.

**BUILDING TRADES 555 & 556 – Full year course 4 credits**

Learn the facets of the Building Trades in this two-year program. Gain a basic knowledge of tools, methods, and materials used in the building industry. Emphasis is placed on construction theory, blueprint reading and related math. Shop activities include construction of masonry, house framing, electrical wiring, and plumbing for bathrooms and kitchens, kitchen cabinet construction, and ceramic tile. Students who satisfactorily complete this course will be prepared for entry level positions.

**COSMETOLOGY 572 & 577 – Full year course 4 credits**

A two-year, 1000 hour, licensed program of training in theory and practical skills. Major areas of instruction include: skin, scalp, hair cutting, styling, and coloring, permanent waving, manicuring, and facials. The list of career opportunities is endless. The beauty industry continues to grow to satisfy the vivid imagination and abilities of the artist.

**CULINARY ARTS 551 & 556 – Full year course 4 credits**

In this two-year program students learn the skills necessary for entry level jobs in the food service industry. Through lectures and demonstrations, students learn all aspects of the hospitality industry from deserts, bake shop, and entrees, to front-of-the-house production. Included as part of this program is running the entire operation of a local restaurant for a five-week period plus catering several public functions. This course of study combines “hands-on” experiences and related theory to prepare students for post-secondary education or employment.

**HEALTH OCCUPATIONS I 557 – Full year course 4 credits**

HOE Core/Nurse Assistant. This program is designed so that students may take the NYS Nurse Assistant Certification Exam. Certified Nurse Assistants are eligible for immediate employment in State, County and privately operated nursing facilities, hospitals, and residential health care facilities. This course is a first step for those wishing to take further training to become a Licensed Practical Nurse or Registered Nurse.

**HEALTH OCCUPATIONS II 558 – Full year course 4 credits**

Students are provided with a strong knowledge base in how humans grow, learn, and develop; beginning with conception and progressing through life with an emphasis on infants and children. Classroom theory receives support by the application of knowledge learned in our on-site lab. This program is wonderful option for students interested in learning about and working in human services careers.

**INFORMATION TECHNOLOGY 601 & 607 – Full year course 4 credits**

This two-year program gives students the training and experiences to learn information management procedures and system operations. Students will develop the skills related to the latest information processing tools and functions. They perform tasks that implement tolls used for the management and storage of data and the processing of information. College credits for work completed are available through agreements between OAOC and local colleges, and can be transferred to college upon OAOC graduation. Students receive hands-on skills and acquire worker traits that determine success, and help prepare them for future employment.

**NATURAL RESOURCE OCCUPTATIONS 569 & 570 – Full year course 4 credits**

This is a two year program with emphasis on heavy equipment operation and maintenance, forestry, soil conservation, and outdoor recreation. Students become involved with forest and woodlot improvement, operation of chainsaws, bulldozers, backhoes, and other equipment. Skidding, road building, water and drainage systems are all incorporated in this program which uses both the outdoors and the classroom for learning.

**VISUAL ARTS MEDIA TECHNOLOGY 568 & 567 – Full year course 4 credits**

Students with interests in Art and graphic design may attend this program. Visual Arts Media students work in a variety of art mediums including animation, Claymation, find art, design, website design, and computer graphics. Seniors engage in internships with designers and artists in their area of interest.

**WELDING 561 & 562 – Full year course 4 credits**

This is a one or two year program which provides basic preparation in welding theory and principles, including the use of welding equipment, tools, materials, and operation. Approximately 15% of the course time is spent on book and classroom study, while 85% of the course time is spent developing “hands on” welding and fabricating skills. Students will learn techniques and procedures required to gain entry level employment in the welding of steels, stainless steels, aluminum, and blueprint reading.

**MECHATRONICS/ROBOTICS 635 & 636 – Full year course 4 credits**

Mechatronics is the combination of mechanical, electrical, computer and automation knowledge to design, fabricate and prove automated systems for a wide variety of applications. Mechatronics is used in industrial, medical, research, warehousing, facility operation/management, and production operations. Students will be given a solid foundation of electrical and mechanical principles. They will use diagnostic tools and equipment to prove the classroom theory in the laboratory. Robotics is the use of mechanical and control systems to manipulate machines to perform specific tasks and human-like actions.

**NEW VISIONS HEALTHCARE PROFESSIONS 602 – Full year course**

Students in the New Visions Health Professions Program spend their senior year at Fox Hospital in Oneonta. They work side by side with doctors, therapists, technicians, and nurses as they explore career options. In addition, students study English 12, Economics, Participation in Government, Physics, and Human Anatomy and Physiology.

**NEW VISIONS ENGINEERING 589 – Full year course**

The New Visions Engineering program is designed for college bound seniors who wish to pursue a career in the field of engineering and science. Instruction will be at a collegiate level. In addition, the program offers college credit Calculus, Physics and Engineering Exploration with a project based curriculum. The program is held at BOCES in Milford.