

Chittenango High School

Course Description Handbook



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**This handbook was prepared by the Counseling Department with the assistance of Chairpersons and Staff from all content areas at Chittenango High School.*

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Dear Parents/Guardians and Students,

Counselors believe it is crucial for students to have a positive attitude about themselves and their school environment in order to perform well academically and to become responsible, productive citizens. Counselors work with students to help them develop their talents and abilities and reach their personal, educational and social goals.

This course description booklet has been prepared to help you become familiar with the course offerings at Chittenango High School and to inform you of diploma requirements. A brief, general description is given of each course. More specific information can be obtained from your counselor, the department chairperson or a teacher.

Please become knowledgeable of your graduation requirements as listed on pages two and three. We will assist you with any questions you may have regarding courses or exams required for graduation. You are encouraged to see us for assistance with any academic, personal or career-related concerns.

We wish you a successful and rewarding high school career.

Sincerely,

Jackie Popkess, Counselor
Melissa Weigelt, Counselor
Sean Hayden, Counselor

NYS GRADUATION REQUIREMENTS

Beginning with students entering Grade 9 in the fall of 2001, graduation requirements and diploma designations are as follows:

COURSES

REGENTS DIPLOMA

Credits
4.0 English
4.0 Social Studies
3.0 Math
3.0 Science
0.5 Health
1.0 The Arts
1.0 Foreign Language

2.0 Physical Education
3.5 Elective Courses

22.0 Minimum required

ADVANCED REGENTS

Credits
4.0 English
4.0 Social Studies
3.0 Math
3.0 Science
0.5 Health
1.0 The Arts
3.0 Foreign Language (or 5 unit
Art, Music or CTE Replacement)
2.0 Physical Education
1.5 Elective Courses

22.0 Minimum required

REQUIRED REGENTS EXAMINATIONS

REGENTS DIPLOMA

Comprehensive English
Algebra
Global History & Geography
U.S. History & Government
Science

ADVANCED REGENTS

Comprehensive English
Algebra
Global History & Geography
U.S. History & Government
One additional science
Geometry
Algebra and Trigonometry
Foreign Language

Note: A 65 is minimum passing score on a Regents exam for a student wishing to earn a Regents Diploma or an Advanced Regents Diploma.

Diploma Levels

1. Advanced Regents Diploma = 8 exams 65+
2. Regents Diploma = 5 exams 65+
3. Local Diploma = 1 or more exams less than 65 but above 55
 - a. (A Local Diploma is available to special education students only)

Course Load Requirement:

Students at Chittenango High School must carry 6.5 units of credit per year. The only exception to this is 12th grade students in good standing may carry 5.5 units of credit in their senior year.

HONOR AND HIGH HONOR GRADUATES

Students who would aspire to graduate with a High Honor designation **must** maintain an average of **93.0 or higher EVERY MARKING PERIOD from 9th grade through the first semester of 12th grade** (14 marking periods). There are **NO** exceptions.

Students who maintain an average of **85.0 or higher EVERY MARKING PERIOD from 9th grade through the first semester of 12th grade** (14 marking periods) will graduate with an **Honor** designation. There are **NO** exceptions.

NYS Regents Endorsement With Advanced Designation With Honors

Students must earn an average of 90 or above in eight required Regents exams:

(1) English, (1) Global, (1) U.S. History, (2) Math, (2) Science, (1) Foreign Language

NYS Regents Endorsement With Honors

Students must earn an average of 90 or above in five required Regents exams:

(1) English, (1) Global, (1) U.S. History, (1) Math, (1) Science

COLLEGE CREDIT COURSES

- Through a partnership with *Tompkins Cortland Community College*, Chittenango students' can be awarded *FREE* college credits for **Level 4 and 5 French or Spanish, Accounting, Applied Computer Keyboarding, Business and Personal Law, Microsoft Office, Business Ownership and Entrepreneurship, Music Theory I and II and Personal Health.**
- Through Cayuga Community College, students can earn three *FREE* (3) college credits college for **Academic Success**, where they will learn study skills and test taking strategies to help them become better academic learners.
- Through *SUNY ESF College* students can earn three (3) college credits in **Global Environmental Science**. This course is approximately \$200.00.
- *Syracuse University* offers a course called **SUPA Psychology** in which students can earn three (3) college credits. This course is approximately \$330.00.

Through Chittenango High School students can take *Advanced Placement (AP)* courses which are sponsored by The College Board. The AP program offers introductory level college courses in various subject areas.

Advanced Placement and college level courses taught in the high school provide motivated students with the following advantages:

1. Competitive colleges expect students to take the most challenging courses offered by the high school.
2. College credits can be earned at a fraction of the tuition cost at college.
3. The student has the opportunity to experience what will be expected of them at college.
4. Often students can earn enough credits while in high school to accelerate college graduation or pursue advanced degrees in less time.

AP exams cost the students approximately \$95.00 per exam. AP exams are graded on a 1 to 5 scale with 5 signifying extremely well qualified for college. Most colleges award credit for a score of 3 or higher, but this may vary from college to college. Currently, Chittenango offers AP courses in the following subjects: United States History, Biology, Physics, English Language & Composition, English Literature & Composition, Calculus, Microeconomics and Ceramics and Sculpture.

Course Changes and Course Drops

Careful planning goes into the construction of a student's schedule. Therefore, course changes and drops are not permitted arbitrarily and requests for specific teachers, cannot be made. Changes may be made to a student's schedule during the first ten weeks of school only, provided the change can be accommodated. However, in some circumstances, changes in program may be the best alternative for the student. If this is the case, changes may be initiated by the student through the counselor and will include teacher and parent permission. The principal will have the final say on whether the change is made. The student must attend the class until the principal gives approval and the counselor makes the change and issues the student a new schedule. In changing courses, students should keep in mind that they must be carrying 6.5 credits at all times or a schedule change cannot be initiated.

COUNSELING CENTER

Our Counseling Center focuses on three major areas of student development:

- **Knowledge of self**
- **Knowledge of world of work**
- **Knowledge of skills/abilities**

Being seen by counselors both individually and in group settings, students develop:

- An understanding of the relationship between educational achievement and career planning
- An understanding of the need for a positive attitude toward work and learning
- The skills necessary to locate, evaluate, and interpret career information

Your school counselor knows the value of teamwork. Counselors and teachers cooperate in efforts to assure student success. Counselors often coordinate efforts with other specialists such as the school nurse, ADA-PEP counselor, psychologists or special education teachers.

It is equally important that parents work with the school counselor, particularly if problems arise. Counselors will make appointments to talk with parents and students during the school day or late afternoon. They can also arrange parent-teacher conferences to address problems or concerns. Please contact your son/daughter's counselor at 687-2911. It is advised that you do call ahead before just dropping in as school personnel may not be available at that time to meet privately.

CAREER CENTER

Located in the Counseling Center, the Career Center is a focal point for career exploration, guest speakers, computer-aided occupational search, college information, and employment statistics.

Along with many reference books, the Career Center utilizes "SCOIR", an Internet program designed to help high school students with career exploration and college planning. This program can be accessed at school or at home as long as a student has a computer that has Internet capabilities and involves an interactive search tool to assist students in their search for colleges and post-secondary educational opportunities. SCOIR also has a mobile app which is very user friendly.

In addition, the Career Center is used for class presentations, visiting college representatives and career speakers from the Central New York area.

The Career Center may be used during a study hall, lunch periods and before and after school. Students should set up appointments with their counselor to discuss the options available to them.

Arts – Visual

Chairperson – Mrs. Allison Komanecky

Studio in Art (0600): This is a foundation course for students in grades 9-12 who desire a broad general background in the visual arts. The class will cover the elements and principles of design, drawing, color, three-dimensional art, art criticism, art history, multi-cultural art and electronic media. Students assess their self and peer projects using a written art criticism technique. Written unit quizzes, exams and portfolio reviews are to be expected. Successful completion of Studio in Art is required for those who plan to elect additional art courses in high school. (1.0 unit)

Drawing and Painting I (0611): Students who elect this course will work in two-dimensional mediums. The first half of the year has a focus on developing classic drawing techniques. The study of line, composition, value and color will be addressed in foundation projects such as still life, portraits and design. A variety of drawing mediums will be used.

The second half of the course is dedicated to a printmaking project and acrylic painting. Students will learn various paint techniques by creating abstract and realistic paintings.

Art History and Art Criticism is incorporated into every project. Students will learn to critique and write about their work. The final portfolio exam involves a written critical analysis of the work created.

Weekly sketchbook assignments are required.

Prerequisite: Studio in Art

Drawing and Painting II (0612): Students will further investigate more challenging drawing and painting techniques. They will study contemporary art trends and are encouraged to develop their own aesthetic. The projects will involve more opportunities for personal expression. Students continue their investigation of the art language (art history and art criticism) in every project. Students who are interested in pursuing art, design or architecture in college may be encouraged to complete additional at home projects to meet the 15-20 piece portfolio requirement for admission to college. It is recommended that students wishing to pursue visual art in college take this course during their junior year. The final portfolio exam involves a written critical analysis of the work created. The basis of the advanced level is to enable the student to create a portfolio for final course presentation and/or college application. Weekly sketchbook assignments are required.

This course may be repeated as DPIII for further exploration and to finalize art portfolios.

Prerequisite: Studio in Art, Drawing and Painting I

Ceramics and Sculpture I (0621): Students who elect this course work in three dimensional form only. Projects include the making of pottery and sculpture that is useful, ornamental and expressive using a variety of materials including clay, stone, wood, metal, plaster and paper mache.

Prerequisite: Studio in Art. (1.0 unit)

Ceramics and Sculpture II (0622)*: Students will develop basic skills learned in Ceramics and Sculpture I, through use of clay and 3-d arts. The course will deal with artistic expression, functional and non-functional uses of clay and the study of the sculptural form. Students will learn to develop products based on the design process from sketch to presentation. Students interested in pursuing art at a college level will begin developing a 3-d portfolio. Students may repeat the course and/or add the AP option with permission of the instructor.

Prerequisites: Studio in Art, Ceramics and Sculpture I

***AP 3-d Option (0622):** The Advanced Placement Program in Studio Art: 3-D Design is a performance-based visual exam. Each student develops and submits a portfolio that serves as a direct demonstration of achievement. The term “3-D Design” is used very broadly; a wide range of work can fit into this portfolio. Logically, work that is submitted for this portfolio will explore depth and space—that is, the issues of working in three dimensions. Content, style, and process are completely open. Whatever direction the student chooses, the work should address such issues as mass, volume, form. Any three-dimensional medium may be used for this portfolio. Students in AP 3-d will be required to complete a total of 18 pieces (5-8 may be from prior ceramics and sculpture courses). Students will submit a CD of their work to the College Board in May for AP credit. There is a fee of approximately \$93.00

Prerequisites: Studio in Art, Ceramics and Sculpture I, and permission of instructor.

Photography 1 (0640): This is a half year course intended for students in grades 10-12 who have completed Studio in Art. In this comprehensive course in photography, students are instructed in the operation of a 35mm camera as a creative tool in black and white photography. The technical aspects of developing, processing and printing film are taught with an emphasis placed on photography as an art form. The course begins with the history of photography and follows up with an exploration of modern day techniques. Students will experiment with creating pin-hole cameras to understand the basic functions of a camera then further investigate the alternative processes in photography. Students enrolled in this course must have use of a manually adjusted 35mm camera. Film will be provided. Students must also purchase polycontrast IVRC black and white photographic paper (approximately \$20.00). **Prerequisite:** Studio in Art.

Photography 2/3 (0640): Students interested in advancing their skills in photography may sign up for subsequent years of photography class where individual exploration of the art is encouraged. Advanced students are given assignments to further develop their skills in B&W photography. Technique and quality are stresses, as well as the development of original ideas and exploration of the specific interests of each student. Students are encouraged to work more independently and experiment with these ideas. This advancement is designed for students who want to improve the quality of their work and who are interested in developing a photography portfolio. Students will receive a half credit for Photo 2. Photo 3 is a full year class. **Prerequisite:** Studio in Art. Photography 1.

Computer Graphics (0630): This is a full year course that may be used toward a sequence in visual art. The course will focus on using a variety of software to create original graphic designs. The course includes software in the areas of photo design, web design, multimedia presentations and animation. **Prerequisite:** Studio in Art or Drawing & Design for Production. (1.0 unit)

Video Production and Media Marketing (0151): In this art course, students will learn the skills required to meet the demands of new media, composition, video editing, podcasting, storytelling and communication skills. Projects and explorations allow students to create visual projects containing fact and fictional information through communication. Students will have the opportunity to experiment with several different products and interfaces such as photography, Adobe Premiere, imovie, Anchor, and much more. Students will also learn about copyright issues in media. Students will have class everyday and lab every other day resulting in 1.5 credits for this course. **Prerequisites** for this course are completion of Studio Art and Photography OR teacher permission.

Advanced Art (0651): This is an upper level course offered to students who wish to develop their technical artistic skills in drawing, painting, ceramics, sculpture or mixed media. Students will work towards creating a solid body of original artwork. Students who have taken Ceramics I may work with clay and 3D materials. Students who have taken Drawing & Painting I can work with 2D materials. Students who take this course will create a cohesive portfolio for review at the end of the year. Students may use portfolios in this course for their college application process. This course is for students with strong, independent motivation and a desire to grow as an artist. **Prerequisite:** Drawing & Painting I or Ceramics & Sculpture I. (1.0 unit)

English

Chairperson – Mr. Christopher Cashman

English 9 (0100): This course introduces students to broad areas of literature (novels, plays, short stories and poetry) and provides them with a variety of writing experiences. During the year, items such as critiques, narrative, descriptive and argumentative essays, along with a research paper, will be written. The student will learn how to use the Library Media Center. Freshmen will refine their grammar, punctuation, mechanics, spelling, vocabulary and research skills. Reading, writing, listening and speaking skills will be strengthened. (1.0 unit)

English 10 (0120), 10H (0121): This course continues the development of composition skills on a more sophisticated level and is designed to help students acquire an appreciation of the short story, the novel, drama, poetry and the essay. The completion of a research paper is required of all students. (1.0 unit)

Honors Eligibility: Entrance into English 10 Honors will be based on the following criteria:

- A student must earn a 93 or better by averaging the following:
 - All four marking periods of English 10 and the score on the English midterm.
- If a student is eligible based on the above criteria, the student must also complete an enrichment assignment, which will be due during the 4th marking period.
- In addition, grounds for becoming ineligible will include any incidents of plagiarism or other form of academic dishonesty and/or suspension from school.

Note: In addition, grounds for becoming ineligible will include any incidents of plagiarism or other form of academic dishonesty and/or suspension from school.

English 11R (0130): The major objective of this third year of English is to provide further practice and polish both written and oral communication. Students enrolled in English 11R take the New York State Common Core English Regents Exam at the end of the school year. This counts as 20% of the final grade. A passing grade on this test is required to qualify for a Regents Diploma (1.0 unit).

Advanced Placement (AP) Language and Composition: (0132): Advanced Placement Language and Composition is an 11th grade English courses that focuses on argumentation and rhetorical strategies. Students will engage with language as a persuasive device and examine the cyclical relationship between speaker, audience, and purpose. Primarily, the course is an in-depth study of nonfiction selections; however, students will also delve into supplemental writing samples from fiction, poetry, and drama. Narrative tools such as diction, syntax, voice, and structure will be highlighted in order to evaluate the efficacy of arguments. Students will be required to read, synthesize, and evaluate textually complex pieces and share their ideas in both written and oral platforms. Students will explore ideas, consider strategies, and revise drafts of expository, narrative, and argumentative writing pieces. Students will be required to write formally and informally, work in collaborative groups, and participate in Socratic seminar discussions during class time. Students enrolled in AP Language take the New York State Common Core English Regents Exam at the end of the school year.

Students must earn a cumulative average of at least at 90% in English 10/10H as well as successfully complete a summer project for entry into the course. At the end of the course study, students will be prepared to complete the AP Exam (an approximate cost of \$95. 00 is associated with this class) (1.0 unit)

Senior English Courses

Advanced Placement (AP) Literature and Composition (0140): Advanced Placement Literature and Composition is designed for the motivated and skilled senior English student. The primary curricular focus of the course is the students' close analysis of several genres of literature, ranging from the eras of Ancient Greece to Contemporary Post-Moderism, composed in skillful and insightful written expression.

While this course includes a focus on preparing students for the Advanced Placement Literature and Composition Examination, it is also designed to develop students' abilities in the areas of college and career literacy. There is a fee of approximately \$95.00 associated with the assessment.

*Please note: to be eligible to take this advanced course, students must earn a cumulative average of at least 90% in English 11 or in AP Language and Composition; a summer project must also be successfully completed to earn entry into the course (1.0 unit)

Senior English Elective Courses

Note: 12th graders may elect to take AP English or successfully complete two of the senior English electives to earn their one unit of credit in English during 12th grade.

Creative Writing (0141): This course provides a variety of practice in the actual creative writing process. Students attempt to develop their own individual styles and talents. Work includes outside reading and practice in writing in various literary forms such as the short story, poetry, and the personal essay. Writing as a career is also discussed. (.50 Unit)

Dramatics (0142): The main purpose of this one semester elective is to give students an overall survey of drama as performance and as literature. Students will study the meaning and significance of theatre, write and perform original scenes, direct and critique each others' performances and practice using tools of drama such as space, voice, body, mind and emotions. Evaluation includes objective testing, group and individual projects and writing assignments. (.50 unit)

English 12 (0143): English 12 is a more traditional English class taught for one semester. It provides practice in reading, writing, speaking and listening and reinforces the ELA standards. Students engage in practical writing such as business letters, resumes and college application essays, as well as writing based on literature. Each teacher offers a special area of literature to study such as mystery, comedy or horror. (.50 unit)

Journalism (0146): Students study the professional news media and the role of mass media in a democratic society. Journalistic writing is examined for style and structure, and students put this information to use by writing for the school newspaper, the Bear Facts. Assignments include analysis of media and their impact, oral class presentations, news writing, feature writing and interviewing. (.50 unit)

Humanities (0145): This course focuses on themes to help students better understand the truly unique aspects of human life and behavior. The three major units focus on these characteristics: the various types of love, the ways in which humans deal with death and dying, ethics and justice. Through the use of various forms of media, students will work cooperatively and individually to complete a diverse array of assignments including oral presentations, a research paper, summaries of magazine articles, book reports, a scrapbook, assigned readings and a PowerPoint presentation concerning our Humanitarian Relief Effort. It should be noted that this class requires oral and written participation during in-class discussions; therefore, good attendance is critical to pass the course. (.50 unit)

Public Speaking (0147): This course provides students with experiences in oral communication. The emphasis is upon effective speaking and critical listening. Students are given as many opportunities to speak as possible. Major assignments include informative speeches, persuasive speeches and demonstrations. Students also actively participate in the rating of speeches given by others. (.50 Unit)

Research Writing (0149): During this Project-Based Learning course, students will connect with a local business as a "consulting firm", learning of any needs/plans. Each student will choose a need, researching paths to meet that need, and, if accepted, assist the business in moving forward with a project. When proposals are denied or completed, students will find alternatives, all the while effectively documenting their progress and clearly communicating with all parties. This course will satisfy one of the senior english electives. It runs for one semester. (.50 unit of credit).

World Language
Chairperson & NYSSB Coordinator – Mrs. Jolene Bennett

French I (0501), Spanish I (0551): This is an introductory course to the study of the French/Spanish language and culture. This course fulfills the 1 required credit in World Language to graduate with a Regents Diploma. Students will be introduced to the NYS Checkpoint A topics, such as shopping, travel and leisure activities. Through a wide variety of activities, the students develop interpretive, interpersonal and presentational communication skills. Guided practice of the present tense and basic structures of the language will be covered. Cultural products, practices and perspectives are explored through exposure to geography, cuisine, holiday traditions, and music of the target culture. (1.0 unit)

French II (0502), Spanish II (0552): This level 2 course covers half of the NYS topics in greater depth, beginning the 2 year checkpoint B sequence. Students further develop their interpretive, interpersonal and presentational communication skills.. Student activities include group/partner conversations, oral presentation, short composition and letter writing, reading short passages, as well as guided practice of the past tenses and basic structures of the language. The curriculum is enhanced by authentic resources and the teachers aim to conduct this course predominantly in the target language. Cultural products, practices and perspectives are explored through exposure to geography, cuisine, holiday traditions, and music of the target culture. (1.0 unit)

French IIIR (0503), Spanish IIIR (0553): This level 3 course completes all of the checkpoint B topics and builds on grammar structures and vocabulary from levels 1 and 2. Students continue to improve interpretive, interpersonal and presentational communication skills. The level of instruction progresses from novice to intermediate level culminating in the Checkpoint B exam. Students must pass the course and the exam to meet the requirements for the three credit sequence in World Language for the NYS Advanced Regents Diploma. Student activities include group/partner conversations, oral presentation, short composition and letter writing, reading short passages, as well as guided practice of various tenses. The curriculum is enhanced by authentic resources and the teachers aim to conduct this course predominantly in the target language. Cultural products, practices and perspectives are explored through geography, cuisine, holiday traditions, poetry and music of the target culture. (1.0 unit)

French IV (0504), Spanish IV (0554)/French 201, Spanish 201: This is an intermediate college level language course. The course is conducted almost entirely in the target language and students are expected to use the language at all times in the classroom. Students review tenses and structures taught in levels 1-3 and aspire to gain mastery of structural elements. Students continue to refine interpretive, interpersonal and presentational communication skills. Student activities again include paired/group conversation, oral presentation, composition and letter writing, group discussion and debate, study of film and creation of an autobiography. Cultural products, practices and perspectives are explored through politics, history, literature, poetry, music, film and current events. (1.0 unit, 3 college credits through Tompkins Cortland Community College).

French V (0505), Spanish V (0555): This is an advanced college level language course. The course is conducted almost entirely in the target language and students are expected to use the target language at all times in the classroom. Students conclude the sequence of tenses as well as study other advanced grammar. Students continue to refine interpretive, interpersonal and presentational communication skills. Class activities include paired/group conversation, oral presentation, journal writing, group discussion and debate and reading authentic literature. Cultural products, practices and perspectives are explored through history, politics, film, literature, art and music of the target culture. (1.0 unit, 3 college credits through Tompkins Cortland Community College).

Once a student has developed proficiency in one foreign language they are encouraged to enroll in another.

Note: Any student looking to continue their education at the collegiate level is strongly encouraged to continue with language for all five years of their high school career.

NYS Seal of Biliteracy: The NYSSB recognizes high school graduates who have attained a high level of proficiency in English and one or more world languages. In level 5 students can choose to pursue the Seal of Biliteracy. The intent of the NYSSB is to encourage the study of languages, to identify high school graduates with language and biliteracy skills for employers, to provide universities with additional information about applicants seeking admission and placement, to prepare students with twenty-first century skills, to recognize the value of language instruction, and to affirm the value of diversity in a multilingual society. Successful candidates will earn three points in English and three points in each world language from a points matrix. The NYSSB takes the form of a Seal on the student's diploma. (<http://www.nysed.gov/world-languages/new-york-state-seal-biliteracy-nyssb>)



Math

Chairperson - Mrs. Jennifer Geehrer

Modified Algebra Year 1 (0301): This is the first course of a two-year sequence leading to taking the Common Core Algebra Regents. This course will cover operations with monomials, polynomials and all types of first-degree equations and inequalities. The course also includes the study of sequences, statistics and coordinate geometry. Scientific calculators are required. (1.0 unit)

Modified Algebra Year 2 (0311): This is the second course of a two-year sequence leading to taking the Common Core Algebra Regents. This course will revisit the topics covered in Modified Algebra Year 1 as well as covering quadratic equations, exponential equations and solving a system of equations. **Prerequisite:** A passing grade in Modified Algebra Year 1.

Common Core Algebra 1 (0300): This course leads to taking the Common Core Algebra 1 Regents in June. Algebra 1 covers operations, polynomial, first and second-degree algebraic equations, functions, coordinate geometry and statistics. There is a heavy emphasis in communicating and reasoning mathematically and becoming efficient problem solvers by using appropriate tools and strategies. Passing the Regents exam is required for a Regents diploma. (1.0 unit)

Geometry (0310): This course leads to taking the Common Core Geometry assessment in June. The course is split into five modules. Module 1 includes topics on Basic Constructions, Unknown Angles, Transformations/Rigid Motions, Congruence, and Proof. Module 2 contains topics such as Scale Drawings, Dilations, Similarity, and Trigonometry. Module 3 extends student knowledge of Area and Volume. Module 4 deals with Coordinate Geometry and Module 5 consists of Circles with and without coordinates. Passing the Common Core Geometry Assessment is required for an Advanced Regents Diploma. Students are required to have a compass and straight edge. Scientific or Graphing Calculator is recommended. **Prerequisite:** Passing Common Core Algebra and passing the Common Core Algebra Assessment. (1.0 unit)

Geometry NR (0313): This is the first course of a two (2) year sequence leading to taking the Geometry assessment. This course will cover Geometry terminology, congruence proofs, triangle properties and proofs, quadrilateral properties and proofs, coordinate geometry, right triangle trigonometry, circles, and transformations. **Prerequisite:** Passing Algebra and the Algebra Regents Examination. (1.0 unit)

Geometry Honors R (0312): Topics of study are the same as the Geometry course except they are studied more in depth and/or at a faster pace. Passing this Regents exam is required for an Advanced Regents Diploma. Scientific calculators are required; graphing calculators are preferred. (1.0 unit).

Prerequisites: 8th grade students must score at least an 85 on the Common Core Algebra Regents Exam and must have maintained an 85 average for all four marking periods and have a recommendation from their Algebra teacher.

Algebra 2 Trigonometry R (0320): This is a fast paced rigorous course. Topics include algebra, rational expressions, complex numbers, functions, trigonometry, logarithms, probability, statistics, series and sequences. Passing the Common Core Algebra 2 R exam is required for an Advanced Regents Diploma. Graphing calculators are strongly recommended. (1.0 unit). **Prerequisites:** Students should have at least a 65 average in Algebra and Geometry courses and have scored at least a 65 on the Common Core Algebra and Geometry Regents exams.

Algebra 2 Trigonometry R Honors (0321): This is a fast paced rigorous course. Topics include algebra, rational expressions, complex numbers, functions, trigonometry, logarithms, probability, statistics, series and sequences. Graphing calculators are strongly recommended. (1.0 unit).

Prerequisites: Students should have an 85 average in Algebra and Geometry Honors courses and have scored at least an 85 on the Common Core Algebra and Geometry Regents exams OR teacher approval.

Precalculus (0351): This pre-calculus course is an extension of the student's skills in algebra, geometry and trigonometry. New topics studies will include polynomials, graphing of functions, sequences & series, conic sections, and an introduction to calculus. The course is designed for those students who plan to study calculus as a high school senior or college freshman. (1.0 unit)

Prerequisite: At least a 65 average in each of the following courses: Algebra, Geometry and Algebra 2 R and at least a 65 on the following Regents exams: Common Core Algebra, Geometry and Algebra 2 R. Note: Students who struggled in previous math courses may find this course difficult.

Precalculus Honors (0351): This course studies the same topics as the Precalculus course but in more depth as well as completes an introduction to calculus in preparation for calculus as a senior.

Prerequisite: At least an 85 average in each of the following courses: Algebra, Geometry Honors and Algebra 2 R Honors and at least an 85 on each of the following Regents exams: Common Core Algebra, Geometry and Algebra 2 R and teacher approval.

AP Calculus (0340): This course is for those students who plan to take or are required to take a calculus course in college. It consists of an extension of analytic geometry, calculus (both derivatives and integral), and their application. Extensive use of graphing calculators is required. The course includes a focus on preparing for the Advanced Placement Examination that, with a high enough score, is widely accepted by colleges and universities across the country in lieu of the freshman course. The exam must be taken. There is a fee of approximately \$93.00. (1.0 unit)

Prerequisite: Passing each of the following Regents exams with at least an 85: Common Core Algebra, Geometry, Algebra 2 R and passing each of the following courses with at least an 85 average: Algebra, Geometry Honors and Algebra 2 R Honors and Precalculus honors or teacher approval.

Math Applications (0360): This course is intended for those students who need a third or fourth year of mathematics and plan on entering a two or four year college. The inclusion of technology as a problem-solving tool has been incorporated into the design of the course. Some of the topics covered will be: linear, quadratic, exponential and trigonometric functions and their graphs, polynomials, geometry, probability and statistics. Prerequisites: Two credits of math, including Algebra. (1.0 unit)

Introduction to Computing (0362): This course is an introductory-level course for students new to programming (in python) and computer science. In this course, you will learn problem-solving strategies, software design, and the foundations of computer science. Not only will this course prepare you for continuing study in computer science, but it will teach you how to think computationally and solve real-world problems, skills that are important to every 21st-century citizen. 1.0 Unit of Credit.

Prerequisites: A student must have successfully completed Algebra to be eligible for this course.

Statistics (0370): Topics of study include: frequency distribution, graphs, measures of central tendency and dispersion, probability, probability distributions, binomial and normal distributions, introduction to sampling theory, estimation theory, and hypothesis testing (mean, variance, proportions, etc). Graphing calculators will be an integral component of this course. (1.0 unit)

Prerequisites: Passing the Common Core Algebra, Geometry, Algebra 2 R courses and regents exams.

AP Computer Science (0361): The Advanced Placement Program offers a course and exam in introductory computer science. The course emphasizes object-oriented programming methodology with a concentration on problem solving and algorithm development, and is meant to be the equivalent of a first-semester college-level course in computer science. It also includes the study of data structures, design, and abstraction. This course includes a focus on preparing for the Advanced Placement Examination that, with a high enough score, is widely accepted by colleges and universities across the country in lieu of the freshman course. The exam must be taken. There is a fee of approximately \$95.00. (1.0 unit).

Prerequisite: Minimum- enrolled in Algebra 2R

Advanced Algebra (0324): This course is designed to help prepare a Junior to be successful in passing Algebra 2 R as a Senior. This is also a course to prepare Seniors for entry level college courses. Topics include a review of Algebra 1 topics, first and second degree algebraic equations, rational expressions, complex numbers, functions, logarithms, and coordinate geometry.

Prerequisite: Passing the course and regents exam for both Common Core Algebra 1 and Common Core Geometry.

Business Math & Financial Applications (0880): This full-year math course is practical and will inform students of the various financial situations they will encounter and will help them to make smart life decisions. It will provide students with the confidence and understanding necessary to obtain financial satisfaction. Topics covered will include: money management, banking services, loans and credit cards, spending wisely, budgeting, taxes, payroll, renting vs. buying a home, mortgages, renting vs. buying a vehicle, insurance, and investments. Note: This course can be used as a third Math credit for Juniors or Seniors, or as a Business Elective. (1 unit)

Music

Chairperson - Mr. Matthew Stearns

Concert Choir (grades 9-12) (0700): The members of this large vocal ensemble do not have to audition. All that is needed is a willingness to learn. Students in the concert choir typically perform in three concerts throughout the year: Winter Concert in December, Music in Our Schools Month Concert in March and Spring Concert in June. Choir members may expect to attend vocal lessons to assist them in music learning. The lessons will be announced in advance. (.50 unit)

Select Choir (0706): The select choir is made up of a small group of pre-auditioned student singers, accompanists and instrumentalists. The select choir rehearses every other day during the school day as well as one 10th period per week. A rigorous rehearsal schedule is designed to prepare for numerous performances in the community. (.50 unit)

Concert Band (0758): The concert band is offered to student musicians grades 9-12. The goal of this intermediate level group is to expose students to important band literature, allow them gain valuable experience and build proficiency on their instruments. Weekly lessons are an important aspect of the program. (.50 unit)

Wind Ensemble (0752): This ensemble is offered to serious minded musicians that have chosen to pursue music for the duration of their high school careers. This group is challenged to perform at a high level while exploring more advanced literature. Students are expected to attend weekly lessons. (.50 unit)

Dixieland Band (0756): The Dixieland Band has been a unique feature of the High School Music Program for over 30 years. As a department, we are proud to be able to offer our most advanced instrumentalists the opportunity to explore this style of music. The Dixieland Band is an auditioned ensemble that performs in our community and beyond throughout the year. (.50 unit)

Jazz Band (0754): The Jazz Band is chosen by audition each year. Rehearsals are on Monday evenings, 2 hours in length. Important events of the Jazz Band include concerts and jazz competitions. (.50 unit)

Music Theory I (0784): This course includes a study of scales, triads, inversions, dominant and secondary seventh chord embellishments, and modulation to closely related keys. Practical application is emphasized by work in ear training and sight singing. Composing of original music and keyboard proficiency is stressed and encouraged. Students will earn 3 college credits from TC3 free upon successful completion of this course.

Prerequisite: Students must be a member of a Chittenango High School performing ensemble.(1.0 unit)

Music Theory II (0781): This course includes a study of scales, triads, inversions, and harmonic embellishments. Modulations and keys will also be examined. Practical application is emphasized by work in ear training and sight singing. Composing of original works and keyboard proficiency will be encouraged. Students will earn 3 college credit units from TC3 free upon successful completion of this course. **Prerequisite:** Music Theory I

Orchestra (0505): Members of the orchestra include all four members of the string family. Students who have successfully completed training at the elementary and middle school level are welcome to participate on violin, viola, cello or bass. The orchestra and band students combine to perform full symphony orchestra repertoire during the year. Students take weekly lessons in a small group setting. (.50 unit)

Chamber Orchestra (0760): The chamber orchestra is a select ensemble of NYSSMA level IV, V, and VI students. Students are invited to participate, and those who choose to perform with the group will enjoy playing in many community venues during the year. These students are committed to performing a Level IV or higher solo at the annual NYSSMA festival. This group specializes in 18th and 19th century music, and performs advanced arrangements of more contemporary classical and pop repertoire. This is a graded class, meeting every other day. Attendance is required. (.50 unit)

Classroom Piano – (0785) - 2012-2013: This course is designed to give students a basic understanding of playing the piano. Students will learn how to read and play notes of both the treble and bass clefs, understand basic rhythms, learn key signatures, play scales and develop sight-reading skills. Basic piano literature will be taught and memorized. Student works will be showcased in an annual student recital. There are no pre-requisites for this course, only the desire to learn a new instrument.

BOCES Workforce Preparation

An important part of the courses available to Chittenango High School students is the BOCES Career and Technical Education Program. Students attend workforce preparation programs at the BOCES center located on Thompson Road. These courses enable students to enter directly into a trade or to complete their studies in post-secondary education.

Students taking a course the first year are juniors and usually attend in the afternoon. Second-year students, generally seniors, usually attend in the morning. Students are transported to and from the centers by bus and, except for their attendance at the centers, are CHS students with the rights and privileges similar to students attending the high school full time.

Students choosing one of the programs are expected to be on track with their academic credits, have a minimum two-year attendance record in excess of 85%, have visited the program being enrolled in, and completed at least one vocational aptitude assessment prior to placement. A visit is very important as it provides students with their own impression of the program. OCM BOCES also conducts visits and open house programs for parents. The counselors encourage the district residents to visit the centers to observe the numerous programs.

Satisfactory completion of one year of an occupational program enables students to earn three units of credit for graduation. All students enrolled in a BOCES Program are required to take applied Math or applied Science that is taught in conjunction with the BOCES program the student is enrolled in. Many of the programs are offered for two years. A complete description of the Occupational Education Programs is available in the Counseling Center.

BOCES Programs Offered

AT THE I.E. HENRY CAMPUS

6820 Thompson Road Syracuse, N.Y. 13221

Auto Collision Technology	Health Occupations Technology
Auto Technology	Laboratory Technician
Computer Technology	Welding Technology
Construction Technology	*Auto Technology at Driver's Village
Cosmetology	* Heavy Equipment Repair, Op. & Diesel Tech at Tracy Road
Culinary & Pastry Arts	*Media Marketing Communications
Early Childhood Education	* Physical Therapy Professions

*Programs in bold are embedded programs that operate in the field. An application and acceptance is required to enroll in those programs.

Note: Selecting a CTE program does not guarantee admission. Programs are limited do class size restrictions. Students also need to be "on track" to graduate in order to enroll in a BOCES program.

Advanced Placement and/or dual credit is available in many of our CTE programs. Articulation agreements with community colleges and 4 year colleges exists. Please refer to each program for continuing education opportunities.

Note: Cosmetology students must complete a specified number of hours of instruction in order to qualify for the state-licensing exam. Therefore, excellent attendance is expected.

New Visions Program for Seniors

Overview: New Visions is an exciting new approach to program delivery for eligible high school seniors. It provides an in-depth overview of a chosen professional field by placing the student into an actual work environment. New Visions successfully integrates English and Social Studies into a meaningful curriculum based on a career interest. It provides a sense of closure to the senior year and a directed transition to the next step of professional development.

Criminal Justice is the study of the criminal justice system, which includes the causes and prevention of crime, law enforcement, corrections and judiciary. Students are also exposed to a variety of human service organizations that network regularly with the Criminal Justice System, such as Rape Crisis, Stop DWI and A.V.I.D. Students attend class at the Onondaga County Sheriff's Department building.

Health Professions is an in-depth study of Anatomy, Medical Terminology and Health Care Systems. Students observe in such areas as therapies, nuclear medicine, research, dental, histology and nursing. Students attend class at the V.A. Hospital.

Engineering Professions is designed to offer students the essential skills needed to be successful in today's engineering field. Students will build their knowledge daily through studying and working side-by-side with professionals. The program will cover a variety of topic areas from mechanical and electrical engineering to aerospace engineering.

Business Education

Chairperson - Mr. William Cretaro

Accounting (0810): The accounting course that is offered at Chittenango High School is a full year course that provides the basics for college accounting and/or the knowledge to begin work in an entry-level business position. Accounting is designed to develop competence in the basics of accounting theory. The students will process transactions through the entire accounting cycle in a service and merchandising business. Utica School of Commerce recognizes this course as fulfilling their criteria for Accounting 101. Additionally, Chittenango High School students taking Accounting will now be concurrently enrolled in Tompkins County Community College's (TC3) Acct 101- Principles in Accounting. With concurrent enrollment, the student will not only earn Chittenango High School credit for the course, ***but will also earn FOUR (4) FREE TC3 college credits.*** These credits can be used at TC3, transferred to ANY other SUNY school, or possibly other private schools. (1 unit)

Applied Computer Keyboarding (0800): This course that is offered at Chittenango High School is a HALF-year course that provides the basics of computer knowledge as they pertain to key entry. By learning the keyboard, key functions and up-to-date software, the student will not only become familiar with the process; he/she can build skills in the employment process. Each student will concentrate on speed and aptitude with the alpha and numeric keyboard; develop a personal resume; and write a cover letter. Students will also earn ***one (1) FREE TC3 college credit*** upon successful completion of this course. (.50 unit)

Be An 11: Leadership Class (0870): Character is the foundation on which success is built. If you want to be successful in school, work, home or athletics you have to develop character and mental toughness. This course's main objective is to foster and develop those characteristics. Course content is designed for both students that are looking to change how they have done things in the past as well as for those students who have a firm foundation and want to continue on the path of success. You will learn how to be an "effective" leader. The major focus of the course curriculum centers on: 1. Self Image. 2. Motivation. 3. Attitude. 4. Goal Setting. 5. Communication Skills. 6. Team Building. 7. Leadership & Character Training. Students will attend a traditional classroom setting 3 days a week. The other 2 days will learn how to weight lift, increase speed and agility as well as workout properly and reinforce a healthy lifestyle. (.50 unit)

Business and Personal Law (0614): This course covers the study of both business and personal law as it relates to the student's role in society. Students will gain an understanding of law, explore and analyze current issues and read relevant case law. Primary emphasis is placed on topics of the court system, criminal law and criminal procedure, civil law and civil procedure, contracts, legal considerations in marriage and divorce and wills, estates and trusts. Any student may take this course. (1.0 unit).
NOTE: Business Law may be used as the fifth course in a five-unit Social Studies sequence. With concurrent enrollment, the student will not only earn Chittenango High School credit for the course, ***but will also earn three (3) FREE TC3 college credits.*** These credits can be used at TC3 or transferred to any other SUNY school or possibly many other private institutions.

Business Ownership and Entrepreneurship (0625): This course is designed to provide students a basic foundation in starting and managing a small business. Students will take a journey through the entire process of owning a business. Students will gain an understanding of entrepreneurship and actually create a business within the classroom setting where they apply market research, financing, pricing, staffing, record keeping, technology and other vital aspects necessary in owning and operating a business. Students will gain a solid foundation in concepts that may be utilized in starting a small business or entering employment immediately after high school, or as a basis for post-secondary study. Students will earn **three (3) FREE college credits from TC3** upon successful completion of this course. (1 unit)

Career & Financial Management 1 (0851): This course will provide students with skills that help them in the world of employment and in everyday life management. Course topics include:

- Career and occupational research & selection
- Setting goals and making decisions
- Your role as a customer, employee, and employer
- Qualities necessary to acquire and maintain employment
- Personal Financial Management (savings, introduction to checking accounts, credit, taxes, insurance and budgeting).

A student must pass this course in order to earn an Occupational Education sequence (3 or 5 credit). (.50 unit)

Career & Financial Management 2 (0853): This class may be taken as a continuation from Career & Financial Management 1 or as a stand-alone course. In the course, students will learn about Personal Finance. Personal Finance refers to all the financial decisions an individual or family must make in order to earn, budget, save and spend money over time. Students will have the option of taking the WISE National Financial Literacy Exam. Upon successful completion of the exam, students will receive their Financial Literacy Certification. Content of the units builds on basic economic concepts such as understanding credit, credit laws, identity theft, budgeting, insurance, checking, savings, banking and investing. Upon successful completion of the course, students will have increased their knowledge in personal finance and become financially responsible young adults. (.50 unit)

Microsoft Office: This course is for students who enjoy using computers or plan to pursue a business major in college. Students learn Microsoft Office 2019 and enhance their practical computer skills for high school, college and the business world. This course provides an introduction to the operation and use of MS Word (word processing) MS Excel (spreadsheets), MS Access (databases), and MSPowerPoint (presentation). Topics covered are directly related to the objectives used for the Microsoft Office User Specialist (MOUS) core certification exams in Word, Excel, and PowerPoint. Students will earn **four (4) FREE college credits through TC3**. (.50 unit)

Technology

Chairperson - Mr. William Cretaro

Design and Drawing for Production (0930): This course will encourage problem-solving using graphic language. Students will be instructed in the graphic process after which they will be given design problems and will present a solution through critical thinking, creative problem solving and the decision-making processes. The solutions will be presented as a working drawing on paper. Some computer-aided drafting will be utilized. This course can be submitted for the one unit of Art/Music graduation requirement. (1.0 unit)

Computer-Aided Design (0920): This full-year course will give students an understanding of computer-aided drawing using a Macintosh computer with a VectorWorks program. This program will expose the student to CAD terminology, history, components, design functions and careers. The majority of the course will consist of using a CAD system to solve graphic problems. Emphasis will be on use of a CAD system for design applications. Students will acquire technical drawing skills and an understanding of industrial standards and codes and recognize the current methods of generating hardcopy. Students will gain an understanding of how CAD and computer technology are changing the role of drafting and the effects they have on the design and manufacturing process. (1.0 unit)

Prerequisites: Design & Drawing for Production.

Transportation Systems (0950): Transportation systems will provide students with an opportunity to explore how people and goods are moved or delivered. This course explores transportation systems from three perspectives: land, marine and aerospace systems. Hands-on lab activities include propulsion, building model cars, rockets, planes, gliders and boats or other projects related to transportation systems. (.50 unit)

Construction Systems (0960): A one semester course in which students will receive training in the basics of the construction industry. They will learn machine and tool safety as well as all facets in the building trade. Students will learn how to enter the workforce, build a foundation, frame walls, roofs and install windows and doors. The students will also be introduced to Green Building basics. The course will take place in the new STEAM center and outside working on hands-on projects. (.50 credit).

Principles of Engineering: This course offers an overview of structural, mechanical, and electrical engineering, as well as a focus on coding. The course centers around the VEX EDR Robotics Program, which affords teams of students the creative opportunity to design, build, test, and compete with a fully functional robotic system capable of performing specific tasks. This course immerses students in a Project- Based learning environment, where collaboration and communication are essential components of successful teams. Students will critically analyze their system continuously to improve performance. As part of the class, students will be expected to participate in a minimum of two VEX Robotics Competitions outside of the regular school day - with two Competitions hosted at Chittenango High School during the year. (1.0 credit)

Principles of Engineering / Robotics II - Advanced Systems (0965):

Picking up right where Principles Of Engineering I / Robotics I leaves off, students enrolled in the Advanced Systems course will apply all of the design and coding skills mastered in the previous course to create integrated robotics systems. These systems will utilize multiple sensing technologies to generate real time informative data. Advanced coding techniques will be employed to utilize data gathered to control robotics sub-systems and accomplish multiple tasks. As part of the class, students will be expected to participate in a minimum of two VEX Robotics Competitions outside of the regular school day - with two Competitions hosted at Chittenango High School during the year. Prerequisites: Principles of Engineering I. (1.0 credit)

Drone Technology (3220): This course is a hands-on introduction to drone technology in which students will learn the fundamentals of UAS (Unmanned Aircraft Systems) from the ground up. Students will learn about system components, usage and deployment as well as learn to fly commercially deployed drone technology. Course material is geared towards students preparing to obtain a Remote Pilot Certificate under the FAA's Small UAS Rule (Part 107). This class is taught every day for one semester. (.5 unit of credit).

Physical Education/Health

Chairperson – Mr. Brian Thomas

Health (1200): Health is a skills-based class that is designed to encourage students to be self-advocates as they acquire and put to use information that applies to their lives currently as well as their lives in the future. This course is required to fulfill the NYS graduation requirements. (.50 credit)

Personal Health (1202): Students closely examine the elements of health and components of nutrition and physical fitness in this introductory course. Planning and participating in an interesting, successful exercise and nutrition program is a fundamental aspect of this course. Successfully preventing, responding to injury/illness, and increasing or maintaining a productive level of energy are all issues which, when managed properly, contribute to an improved quality of life. Additional topics addressed include finding meaningful work, enjoying leisure activities, growing older successfully, and improving and protecting the environment.

Prerequisites: Students must be in 11th or 12th grade and have earned an 85 in health or have permission of the instructor to take Personal Fitness. This is a college level course and students earn 3 college credits from TC3 at no cost to them.

Physical Education 9-10 1st Semester (1100); 2nd Semester (1101); Physical

Education 11-12 1st Semester (1102); 2nd Semester (1103): Classes in grades 9-12 meet every other day. Students are required to wear appropriate clothing and sneakers for each class. Students will be issued a lock and assigned a locker to keep clothing in.

Note: Students who are medically exempt must complete the Physical Education requirement in another manner, e.g. a written report or projects.

Each student is evaluated and receives a grade in Physical Education each marking period. The criteria for individual evaluations include a skill grade, a written test grade, and an attitude and participation grade. Each student in grades 9-12 is required to take a written test at the conclusion of each unit. All of the criteria are compiled into one Physical Education grade.

The following composite list of activities is representative of what a student can expect to cover during his or her ninth through twelfth grade Physical Education studies. Many of these activities are taught co-educationally: archery, badminton, table tennis, basketball, cross country skiing, dancing, golf, softball, soccer, tennis touch football, track and field, volleyball, weight training, wrestling, snowshoeing, orienteering, project adventure, pillow polo, core training, field hockey, lacrosse, recreational activities, ultimate Frisbee, fitness assessment and pilates and yoga.

Note: One half (.50) unit of high school credit is earned by a student who passes the course each school year. A total of two (2) units must be completed in order to graduate from high school.

SCIENCE

Chairperson: Mr. Harold Muller

Earth Science R (0400), Lab: This course consists of a survey of the earth's structure, the earth's place in the universe, and the many types of phenomena that occur on the earth's surface. The emphasis is on laboratory experiences that will allow the student to understand the role of the earth in the universe. A lab is required according to N.Y. State guidelines. The final exam in this course is the Regents Exam. (1.50 units)

Biology (Living Environment) (0410): Biology is the science of life. Students will use mathematical analysis, scientific inquiry and engineering design as appropriate to pose questions, seek answers and develop solutions. Students will understand and apply scientific concepts, principles and theories pertaining to the physical setting and living environment and recognize the historical evolution, reproduction, maintaining homeostasis and ecology. New York State requires that a lab requirement be met in order to sit for the Regents exam and receive credit upon successful completion of this course. The final exam for this course is the Living Environment Regents exam. (1.50 units)

Forensics (0460): This elective is an introduction to the field of forensic science. Students will utilize concepts from biology, chemistry, earth science and physics to investigate and analyze crime scenes. Students will learn about basic investigative techniques, legal procedures, fingerprint analysis, hair identification, evidence classification, chromatography and accident reconstruction through a variety of inquiry-based activities. Evidence collected from crime scenes will be used to identify potential criminal suspects. In addition, outside readings such as current event articles and classic historical cases will be incorporated into the course. Students will be expected to collaborate and communicate effectively. (1.0 unit)

Prerequisite: Must pass Biology Regents course and exam.

Chemistry R (0420), Lab: This course of study presents a modern view of chemistry suitable for students with a wide range of skills and abilities. Topics presented in a laboratory and lecture format include energy, matter, atomic structure, periodic law, kinetics, equilibrium, acids, gases, organic chemistry, and electrochemistry. Lab is required. (1.50 unit)

Prerequisite: Earth Science R, Biology R, and Algebra. It is recommended that students are concurrently taking Geometry or Algebra II and Trigonometry.

Environmental Science (0450): This is a full year course and includes the most current environmental topics that pertain to the world today. A few of the topics covered throughout the year include: science and the environment, aquatic ecosystems, biodiversity, land use, waste/recycling, human involvement, water and air pollution, renewable/nonrenewable resources and human health and the environment. Throughout the year, students complete investigative projects on current environmental issues, with a focus on global environmental conservation. (1.0 unit)

Physics R, Lab (0430): The emphasis is on practical experience in the laboratory and class study involving the nature of matter and energy, measurement, force, motion, work power, energy, atomic structure, radioactivity, nuclear energy, heat, work, wave motion, sound, illumination, reflection, refraction, color, electrostatics, direct current circuits, magnetic effects of electric currents, and electronics. Lab is required according to State guidelines. (1.5 unit)

Prerequisites: Satisfactory completion of one High School Regents Science Course and Algebra and Geometry.

AP Biology, Lab (0443): This is a college freshman Biology course. It is appropriate for outstanding students who are strong in science and math. A student considering this course should have taken Chemistry. The course involves extensive laboratory work, readings and lectures. The course includes a focus on preparing for the Advanced Placement Examination that, with a high enough score, is widely accepted by colleges and universities across the country in lieu of the freshman course. The exam must be taken. There is a fee of approximately \$93.00. (1.50 unit)

Prerequisite: Biology R and Chemistry R, or Biology NR and Chemistry NR with teacher approval.

AP Physics B, Lab (0440): AP Physics 1 is a fast paced, algebra based physics survey course that in most colleges is taught as a first semester course with a lab component. The Physics 1 course provides a systematic introduction to the main principles of Newtonian mechanics and emphasizes laboratory activities as well as the development of the problem solving ability. The Physics 1 exam covers kinematics, dynamics, momentum, conservation of energy, rotational motion and SHM. Students enrolling should be proficient with algebra and trigonometry; calculus is seldom used, although some theoretical developments may use basic concepts of calculus. Students must take the AP exam in May. The Regents exam is optional and requires individual preparation if students are interested. The AP exam fee is approximately \$93.00. (1.50 unit)

Prerequisites: Recommend Earth Science, Biology and Chemistry, as well as concurrent enrollment in Precalculus or AP Calculus.

Global Environment (0451): This course is offered through an outreach program with SUNY ESF. Upon successful completion of this course, students will earn three college credits. This course will explore the natural, social and political factors that influence our decisions on both local and global environmental issues. The five themes of the course include: human population growth, a global perspective, the urban world, sustainability and knowledge and values. There will be an emphasis on the environmental changes that we hear about nearly every day in the media. (1.0 unit) The cost for this course is set by SUNY ESF and is approximately \$200.00.

Prerequisites: Earth Science, Biology and Chemistry (or concurrent enrollment in Chemistry)

Social Studies

Chairperson - Mr. Daniel Kelly

Global History and Geography 9 (0200): The Social Studies course given to all 9th grade students is the first half of a two-year course entitled Global History and Geography. This course provides students with the opportunity to explore what is happening in various regions and civilizations of the world at a given time. The ninth grade curriculum includes a study of the methodology of history and geography, the ancient world; expanding zones of encounter (500AD, 1200AD, global interactions (1200-1650), and the first global age (1650-1700). (1.0 unit)

Global History and Geography 10R (0210): At the 10th grade level, students at Chittenango High School are required to take the second half of the Global Studies and Geography course begun in the 9th grade. This course focuses on the four stages of modern history: the age of revolution (1750-1914), a half century of crisis and achievement (1900-1945), the twentieth century since 1945, and global connections and interactions. The NYS Regents exam in Global History and Geography is the final exam. Passing the Regents is a requirement for graduation. (1.0 unit)

Global History and Geography 10H (0211): This 10th grade honors course is for students who have shown special interest and who have also excelled in Global Studies 9. The course content includes all the material taught in the regular 10R class plus additional writing and enrichment activities. The criteria for admission include, but are not limited to; a strong work ethic, an interest in history and politics, an above average writing ability, as well as a minimum final average of 93 in Global History 9. Final average is calculated by adding the four Marking Period grades plus the Final Exam and dividing by five. Completion of a mandatory summer homework project and/or an entrance exam may also be required for admission. (1.0 unit)

U.S. History & Government 11R (0220): This course acquaints the student with the American people through institutions, their government and their problems. Attention is given to the political, social and economic phases of American life. The course is chronologically organized with emphasis on the United States as an industrial nation. Constitutional and legal issues are developed as well as issues of international involvement. The NYS US History and Government Regents is the final exam. Passing the Regents exam is a requirement for graduation. (1.0 unit)

AP U.S. History 11R (0135): This 11th grade course is designed to provide students with the analytic skills and knowledge necessary to deal critically with the content and issues of United States History. The expectation is for students to develop the skills necessary to perform at an introductory college level. The course involves a rigorous workload including extensive reading, writing and analyzing an abundance of U.S. History topics.

All students must take both the AP exam in May and the Regents exam in June. The approximate cost of the AP exam is \$93.00. (1.0 unit)

Prerequisite:

- Recommendation from their Global History 10 teacher
- 93 or higher average in all four marking periods in Global History 10
- 93 or higher on the Global History Regents Exam
- Completion and mastery of the AP US History summer project
- Completion and mastery of the AP US History Entrance Exam

Students must be better than average writers, have a passion for social studies and a strong work ethic. Parents will be contacted several times during the course of the year in reference to their child's progress. Also, a student may be dropped from the course if the aforementioned criteria are not being met. As always, final class approval rests with the Principal.

Economics (0230): This senior course is required for graduation. This course includes the basic economic concepts and understandings which people need for functioning effectively and intelligently as citizens and participants in the economy of the United States and the world. (.50 unit)

AP Microeconomics (0229): The purpose of the AP Microeconomics is to provide a thorough understanding of the principles of economics that apply to the functions of individual decision makers, both consumers and producers, within the larger economic system. It places primary emphasis on the nature and functions of product markets, and includes the study of factor markets and the role of the government in promoting greater efficiency and equity in the economy. Students must have a strong work ethic, an interest in history and politics, above average writing abilities and have passed pre-calculus math. The student must maintain these qualities or may be dropped from the course at the end of the first semester and placed in a non-AP economics class. (.50 unit)
All students must take the AP exam in May and the approximate cost is \$93.00.

Participation in Government (0231): This senior course is required for graduation. This course emphasizes the interaction between citizens and the government at all levels: Federal, State, and local. Daily, active student participation in the class is encouraged. (.50 unit)

Psychology (0240): This course surveys the field of psychology, the study of the mind and behavior. Topics covered include the historical background of psychology, methods of psychology, brain and body awareness, consciousness, dreams, motivations, and emotion, sensation and perception, memory and learning, personality theory, abnormal behavior and mental illness. The course is designed to help students develop an understanding of themselves and other people. (.50 unit)

SUPA Psychology (0239): This is an introductory psychology course that surveys the basic principles and research findings within the major areas of psychology, including learning, memory, cognition, development, personality, and social psychology. Students will be presented with opportunities to conduct their own research and to discuss current topics, events, real-life experiences, and applications of psychological theories and research. The course also provides a degree of freedom for students to pursue individual topics of interest. This is a college course offered through Syracuse University, and students paying the (discounted) fee of \$330.00 for SU credit will receive a Syracuse University transcript. Upon successful completion of the course, students earn three college credits from S.U. which is transferable to many colleges and universities in the U.S. (.50 high school unit of credit).

Special Education Services

Director of Special Education – Mr. Ben New

Within the high school, Special Education programs are available to students through **smaller class direct instruction**, resource room assistance, and instructional support services for pupils identified with an educationally related disability by the Committee on Special Education (CSE). The amount of service provided is based on the CSE recommendation to the Board of Education.

Direct instruction classes are credit bearing toward a diploma. Support service is provided in resource rooms, which supplements instruction received in the regular classroom.

Special Class/Direct Instruction is provided to students with an educationally related disability as recommended by the CSE. Smaller class direct instruction is available in English, Math, and Social Studies. Course content is directed to assist students to acquire those skills and concepts needed to pass required State exams, as well as practical skills related to competencies expected in the workplace and for consumer management.

Resource Room is provided to students with an educationally related disability as recommended by the CSE. The amount of time is indicated on the Individualized Education Program (IEP). Resource service supplements the educational program of the regular classroom and provides specialized supplementary instruction on an individual or small group setting for a portion of the school day.

For further detailed information regarding special education services offered by Chittenango Central School District, contact the Director of Special Education.