**Ellicottville Central School**

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2015-2016

Course Catalog

#### To Students and Parents:

Our 2015-2016 Course Catalog is prepared to assist students and parents in making choices for the next school year. Mrs. Eddy and Mr. LaCroix will be meeting with all Middle and High School students to plan their courses for the coming school year and to review their progress towards graduation. The course requests will be sent home with students for parents to review, sign and return to the Guidance Office.

After course selections are made, the Master Schedule will be designed to best meet the needs of students. Student schedules for the fall will then be prepared and distributed.

Please call Mrs. Eddy or Mr. LaCroix at 699-2316 if you have any questions or would like to set up a meeting to discuss course selection for your son/daughter.

**Guidance Office**

All students in grades K-12 have a guidance counselor assigned to them who will meet and discuss career objectives as well as day-to-day needs that may require adult input or advice.

Mr. LaCroix will be working with students in grades K-7. Mrs. Eddy will be working with students in grades 8-12.

Students are reminded that career information, scholarships, college information, details on the Armed Services, and all the appropriate forms for SAT’s, ACT’s, FAFSA, and other related information are available in the Guidance Office.

**Course Load**

Every student in high school shall be registered for at least 6 credit-bearing courses for each of the four years, grade 9 through 12 plus Physical Education.

**1**

**ECS GRADUATION REQUIREMENTS**

# I. REGENTS DIPLOMA

1. Course Requirements

ENGLISH 4 units PHYS. ED. 2 units

SOCIAL STUDIES 4 units ART/MUSIC 1 unit

MATH 3 units HEALTH .5 units

SCIENCE 3 units

FOREIGN LANG. 1 unit

\*Must have 24 credits to graduate

1. Exam Requirements

EARTH SCIENCE **OR** BIOLOGY REGENTS

ALGEBRA REGENTS

GLOBAL STUDIES REGENTS

ENGLISH 11 REGENTS

US HISTORY REGENTS

# II. ADVANCED REGENTS DIPLOMA

1. Course Requirements

ENGLISH 4 units PHYS. ED 2 units

SOCIAL STUDIES 4 units ART/MUSIC 1 unit

MATH 3 units HEALTH .5 units

SCIENCE 3 units

FOREIGN LANG. 3 units

\*Must have 24 credits to graduate

1. Exam Requirements

EARTH SCIENCE & BIOLOGY REGENTS

ALGEBRA, GEOMETRY, & ALGEBRA 2/TRIG REGENTS

COMPREHENSIVE LOTE EXAM

GLOBAL STUDIES REGENTS

ENGLISH 11 REGENTS

US HISTORY REGENTS

In addition to the two diploma types, students can be awarded either diploma with Advanced Designation if they meet the requirement of attaining a 90% **average** on all of the Regents Exams that they take.

**2**

**6-12 Grading System**

Numerical grades are used with 65% as the lowest passing grade. For the first two quarters, grades below 50% will be recorded as \*50 and averaged accordingly. The 3rd quarter, 4th quarter and the final test grades will be recorded as earned. The final grade in all courses will be figured in the following manner: take the 4 quarterly grades and the final exam grade and divide by 5.

Students who receive “incomplete” grades have 5-weeks to make up the grade or it will automatically become a \*50. In order to earn course credit a student must receive a final grade average of at least 65%. Regent’s credit is earned by successfully completing a course (65%) and passing the appropriate Regents examination.

**Weighting for Class Rank**

In order to determine class rank, the Board has a revised policy that will be effective starting with the ninth grade class of 2009 (the graduating class of 2013).

The five (5) required Regents exams are not weighted. Students who take and successfully pass any additional Regents exam and/or other non-regents subjects that have also been identified as subjects receiving weighting for class rank will receive a weighted grade. (All of the courses have been identified in the course offerings.) Students taking a more demanding schedule will be rewarded for their efforts. The cumulative student average of all passed courses and/ regents would be multiplied by a factor of .01 for each weighted course a student takes and successfully passes. For example, if a student takes two weighted courses, the cumulative average will be multiplied by .02.

Class rank is updated every semester with final class rank for seniors determined at the end of the third quarter.

* Only the average of grades earned in classes taught at Ellicottville Central School by ECS teachers (including Distance Learning classes taught by ECS staff) through the end of the third marking period of the senior year will be used to determine class rank.
* Course credits earned in other high schools or in summer schools other than those conducted or endorsed by Ellicottville Central School District will not be used in determining the final selection of a valedictorian, salutatorian or a “top 10 graduate.”
* Only college level courses offered at ECS and taught by ECS teachers will be considered weighted courses by a factor of .01 per 3 credit course. Such courses will be used in determining a student’s final GPA and class rank. College level courses taken in any other manner will not be used in determining a student’s final GPA and class rank. In some cases a student may take a college level course as an elective for local credit only. In these cases, the class grade will not be weighted.

**3**

* A Student taking on-line courses, Distance Learning courses taught by non-ECS teachers and independent study courses will earn the proper respective credit for such classes towards fulfilling his / her graduation requirement, but these courses will not be used in determining a student’s final GPA or class rank.

**Drop/Add Policy Process**

1. Students and parents are advised that they should consider course selection carefully and the selection of courses at the time represent a firm commitment to scheduling decisions.

2. Student schedules will be mailed in August. All schedule changes should be made prior to the 1st day of school. The Guidance Office will be open the last 2 weeks of August.

3. All requests to change a schedule must be made in writing no later than two weeks after the start of the class.

4. All requests by students to change study halls require the written permission of the principal.

In rare circumstances, a senior may be allowed to drop a class after the 1st semester. Examples of such circumstances could include, but are not limited to: finding out a college of choice requires a different course; a course that was not previously advertised becomes available, etc. All such changes must be requested in writing to the principal for review, and must occur within the 1st week of the 2nd semester. If permission is granted for the student to drop one course to add another, the student MUST realize that while his / her GPA will be updated each quarter for the purposes of creating the student's Ellicottville Central School Transcript and final GPA, the GPA used for determining class rank will be permanently "froze" at the point when the class was dropped (in other words, the student cannot increase in ranking, and there is the possibility that the student may actually decrease in ranking). If the dropped class was a "weighted" class for GPA purposes, the weighting will also be removed.

**Academic Intervention Service (AIS)**

AIS is a program mandated by the New York State Department of Education to take place when a student scores below or has been determined to be at risk of performing below the State designated performance level on one or more of the State assessments in English language arts, mathematics, science and / or social studies. The State assessments include; the NYS 3-8 Assessments, Regents, and RCT examinations.

**4**

Each student enrolled in an AIS class will receive individualized instruction specifically designed to address areas in which he / she needs to build / improve his / her skills and achievement.

AIS should not be considered a second period in the subject area or an additional study hall. Also, please be advised that your son / daughter will not receive a grade for AIS, and, as a general rule, he / she will not have homework for AIS. Furthermore, as AIS is mandated by New York State, it may take a priority over a non-mandated elective in your son’s / daughter’s schedule for this school year.

 **High School**

**No Doubling-English or Social Studies**

Students will not be scheduled to take 2 or more English or 2 or more Social Studies classes at the same time due to failure. For example: if a student fails English 9 he/she will have to retake it in summer school or take it the following year. Students will not be permitted to take English 10 until English 9 has been successfully completed. New English or Social Studies classes will not be started in

January. Seniors will be exempted from this policy, if doubling will allow the completion of graduation requirements.

**Failed Courses**

Students failing any high school course may retake the course in summer school (when available) or in the following school year. See student handbook for more information on summer school.

**Honor Roll**

Students achieving an average of 90% or higher will be placed on the “High Honor Roll” while students achieving an average of 85% to 89.9% will be listed on the “Honor Roll.” An “Incomplete” prevents honor roll eligibility (only exception will be physical education).

**College Courses**

College level courses are available on our campus, taught by ECS teachers, in the following subject areas:

**English, Science, Math, French, Art, Business, Engineering, & Social Studies**

Students are eligible to receive credit from Jamestown Community College, Genesee Community College and Niagara University.

Please note the requirements for each college course varies.

**5**

**College Courses**

Ellicottville Central School has worked hard with a number of colleges in Western New York State to be able to offer select college level courses taught by ECS teachers where the student simultaneously earns both high school and college credit. This is a great opportunity for students and can provide many advantages for college bound students. However, students need to remember that the material taught in these courses, as well as the expectations of the students taking them, is demanding and at the college level. Students desiring to enroll in these courses should not do so without first discussing the course rigor and demands that will be placed on them with parents and his / her guidance counselor. It might also be a good idea for the student to discuss the course with the teacher.

Students need to keep in mind that the primary goal of Ellicottville Central School is to provide a quality high school education; not a college level education. The intent of offering these courses is to provide students that demonstrate a true readiness for such courses a variety of opportunities while still in high school. The intent is not to provide a student with the opportunity to enroll in as many college courses as possible during the junior and senior years of high school.

Students need to weigh many factors when determining which and how many courses they may wish to take. One such factor may be a student’s involvement in extracurricular activities. Another factor may need to be the student thinking “how much is enough,” as taking too many demanding courses too soon and “settling” for a grade may not be as rewarding as taking fewer courses, but excelling in these courses with high grades. A student should remember that these grades will appear on their college transcripts which will follow them throughout life.

ECS also realizes that a student may wish to challenge his / herself to take a college level course, only to find out that he / she is not ready for the demands of a particular class. In these cases, and only in the case of a college course, the drop date ECS will use will be the one provided by the college. Students must remember however, that his / her schedule must still contain at least 6 credit bearing courses and that all graduation requirements must be met before a course can be dropped.

One final thing for students to keep in mind is that while many colleges will recognize and accept the credits earned in these courses, there is no guarantee that the college a student attends will or has to accept these credits.

**Juniors will be limited to taking 2 College Courses simultaneously and Seniors will be limited to taking 3 College Courses simultaneously.** If a student is interested in taking additional courses then a parent/administrator meeting will be scheduled to discuss the appropriateness of the request.

**6**

The following section provides students with valuable information such as prerequisites and placement test scores needed to enroll in a specific course.

 **JAMESTOWN COMMUNITY COLLEGE COURSES**

JCC Courses are tuition free for ECS students but there may be some fees associated with these classes such as books, lab fees, etc. Please refer to each course description for this information.

Placement Test, ECS Requirements, & Additional Requirements

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| COURSE | WRITING  | READING | ADDITIONAL REQUIREMENT | ECS REQUIREMENT |
| ART 1590Ceramics | None | None | None | Studio Art |
| CMM 1610 Public Speaking | 4 or above | 80 | None | 85% English class average |
| ENG 1510English Comp. I | 4 or above | 80 |  | 75% English class average |
| ENG 1530English Comp. II | 7 or above, or Completion of 1510 | 80 |  | 85% English class average |
| ENG 1540Writing about Lit. | Completion ofENG 1530 |  |  |  |
| MAT 1540 Elementary Statistics | None | 80 | Accuplacer Algebra76 | 85% Algebra 2/Trig average orTeacher Permission |
| MAT 1710 Calculus | None | None | Pre-calculus | 85% Pre-calculus average orTeacher Permission |
| BIO 1510Health Science | None | 70 | None |  |
| MUS 1570Music Theory | None | None |  |  |

**NIAGARA UNIVERSITY COURSES**

In addition to the above JCC courses we also offer two French courses through Niagara University, NU French 103 & 104. There are no testing requirements to enroll in these two courses but students must receive teacher permission and be willing to pay the $180 per course tuition.

 **GENESEE COMMUNITY COLLEGE COURSES**

We also offer Physics 121 through Genesee Community College. Students must have completed Earth Science, Biology, Chemistry, & Algebra 2/Trigonometry prior to enrolling in this course. Students will be responsible for paying the $350 course

& book fee.

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# Course Offerings

Students, please note that 1 credit courses typically meet every day for an entire year, while .5 credit courses may either meet every day for half a year or every other day for an entire year depending on the master schedule.

# English

All students must pass the ELA Regents Exam at the end of their Junior year to be eligible for graduation.

**The following English courses are considered weighted courses:**

**English 1510, English 1530, English 1540, & JCC Public Speaking**

**English 9** 1 credit

The English curriculum is comprised of two distinct components: language skills and language arts. The skill portion of the course emphasizes the grammar and mechanics of composition. Four literary genres: the short story, the novel, drama, and poetry - comprise the arts portion of the course. The introduction of literary terms, techniques, and analysis forms an essential part of the literature section. The literature is taken from a global selection rather than from any specific geographic region.

**English 10**  1 credit

English 10 presents four core elements: vocabulary, grammar, composition, and literature. Grammar presentations are primarily overviews of the parts of speech, usage, capitalization, and punctuation and sentences structure. Composition involves the development of narrative, descriptive and expository essays.

**English 11** 1 credit

Survey of American Literature 1600-present. In-depth study of several of the major novelists. Covering Greek as well as Shakespearean Tragedy. Grammar and heavy emphasis on vocabulary are also a part of the course. A State Regents Exam is given and a passing grade is required for graduation.

**English 12**  1 credit

Students will use the latest research techniques to create individual projects that focus on writing skills and oral presentations.  Non-fiction and fiction readings will be incorporated into the class.  The writing process and editing skills will be mastered upon successful completion.

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**JCC English 1510**  .5 credit

College Composition I 3 College Credits

 Seniors Only $75 Book

 Prerequisites: Pass JCC Placement Test

 75% English Class Average

Students will learn to write precise, clear, substantive essays. Students will work with multi-page papers, organization, and mechanics. Emphasis will be placed on critical thinking, reading, and writing.

**JCC English 1530**  .5 credit College Composition II 3 College Credits

 Seniors Only $75 Book

 Prerequisite: Pass JCC Placement Test

 85% English Class Average

Students will learn to write precise, clear, substantial, and logical essays. They will develop critical thinking and writing skills required in higher education, employment, and life. Students will also learn to conduct research and write a research paper.

**JCC English 1540** .5 credit

Writing About Literature 3 College Credits Seniors Only $100 Book

 Prerequisite: English 1530

Students will learn to write precise, clear, substantial, and logical essays about fiction, poetry, and drama.

**JCC Public Speaking CMM 1610** .5 credit

 Seniors Only 3 College Credits

 Prerequisite: Pass JCC Placement Test $60 Book

 85% English Class Average

Students will learn effective strategies for researching, preparing, and delivering informative and persuasive speeches to small groups. Students will be able to demonstrate methods for building confidence in speech delivery, supporting points with evidence, analyzing the audience, using media aids effectively, and refining delivery style. *Only weighted if taking for college credit.*

**SAT Prep-Critical Reading & Writing** .25 credit

 $20 Book

Students will work on techniques to help prepare them for the Critical Reading & Writing sections of the SAT. Students will be exposed to actual test questions as well as full length SAT’s.

**9**

**“At the Movies”** .5 credit

In "At the Movies" we view, discuss, and explore a wide variety of movies in order to better understand and appreciate one of the dominant art forms of our day. Goals include expressing and defending an opinion of a movie through written and oral reviews, understanding plot structure, exploring various genres (silent, classics, foreign). We examine the role of music, sound, and literary techniques (such as symbol). In addition to genres, we also explore movies by themes: justice and prejudice (Twelve Angry Men and To Kill a Mockingbird). In short, we hope to see with new eyes the awesome power of this medium to inspire, entertain, and enlighten our everyday lives.

**Social Studies**

The social studies Department follows the Social Studies Learning Standards and its’ themes and concepts. Students will be required to pass a New York State Regents exam in Global Studies and U.S. History and Government to graduate from high school.

**Global Studies 9** 1 credit

Ninth grade Global Studies is the first part of a two-year program of study. The curriculum contains the themes of world history, geography, economics, and political systems from pre-history to 1750. The ninth grade curriculum has 5 units of study, 5 continuous themes and four regents standards integrated within it.

The following are descriptions of the units of study in order - Ninth Grade:

Unit 1 - Introduction to Global History

Unit 2 - Ancient World: Civilizations and Religion (4000 BC - 500 AD)

Unit 3 - Expanding Zones of Exchange and Encounter (500 AD - 1200 AD)

Unit 4 - Global Interactions (1200 AD - 1650 AD)

Unit 5 - The First Global Age (1450 AD - 1770 AD)

A local final exam is given at the end of Global Studies 9. A State Regents Exam is given and a passing grade is required for graduation at the end of Global Studies 10.

**10**

**Global 10** 1 credit

Global Studies 10 is the continuation of the two-part curriculum, which progresses from Global 9 through Global Studies 10. The 10th grade curriculum contains themes of world history, geography, economic systems, and political systems from 1750 to present day.

The 10th grade curriculum has 4 units of study and 4 continuous themes. The following are descriptions of the units of study. Units 1-5 are taught in the ninth grade year.

Unit 6 - An Age of Revolutions (1750 - 1914)

Unit 7 - A Half Century of Crisis and Achievement

Unit 8 - The World since 1945

Unit 9 - Global Connections and Interactions

Assessment is a State Regents Exam based on thematic essays; data based questions, comprehensive questions, and constructed response questions from both years of study. The State Regents Exam is given at the end of the course and a passing grade is required for graduation.

**U.S. History and Government** 1 credit

This course is taken in the junior year and contains units about U.S. geography, background of U.S. Government, the Constitution as a foundation of our society, and Constitution issues reflected in court decisions. It also includes a chronologically organized course in U.S. History from The Colonies to the present with an emphasis on the U.S. as an Industrialized Nation, and our relationships with the rest of the world. A State Regents Exam is given at the end of the course and a passing grade is required for graduation.

**Social Studies 12 - Participation in Government (PIG)** .5 credit

The class studies local, state and federal government going beyond what was taught in 11th grade with an emphasis on their active participation in the process from voting to running for office. The goal is an understanding of government and a desire to participate in the future.

**Social Studies 12 - Economics** .5 credit

The class will study economic theory including supply and demand, trade, and government’s role in the economy, taxes and spending and monetary policy. Also concepts such as unemployment, inflation, recovery and recession will be explored. Consumer economics, which is covered, includes credit, taxes, saving and investment, buying a home and car, and making good economic decisions.

**11**

**County Government Intern** .5 credit

 Seniors Only

 Teacher Recommendation Required

 Replaces: Participation in Government

Individuals are selected each year to participate in a BOCES program for students from across Cattaraugus County. They will travel to the County Seat in Little Valley and spend one day a week working behind the scenes and in the Legislature.

**Mathematics**

Students must pass the Algebra Regents Exam to be eligible for graduation.

**The following Math courses are considered weighted:**

**Geometry, Trigonometry/Algebra 2, Pre-Calculus, JCC Calculus, JCC Statistics**

**Algebra 1A** 1 credit

Students who score a level 1 or level 2 on the NYS Math Assessment and have a math average below 75% may be placed in this course.

This is a preparatory course for Common Core Algebra. Topics covered are 1) Numbers and Numeration, 2) Operations (both numeric and algebraic), 3) modeling/Multiple Representation (with real-world problems) 4) Measurement (with formulas and graphs), and 5) Patterns/Functions (both linear and quadratic). A local final exam is given at the completion of this class in June.

**Algebra 1B** 1 credit Prerequisite: Algebra 1A

This course is the second year of the two-year sequence for Algebra. Topics covered are 1) Mathematical Reasoning, 2) Numbers and Numeration (including irrationals), 3) Modeling/Multiple Representation (including inequalities, loci, and tree diagrams), 4) Measurement (including trigonometry), 5) Uncertainty (including permutations and combinations) and 6) Patterns and Functions.

**Algebra** 1 credit

 Prerequisite: 75% average in MS Math

This course is typically the first year of high school math. Topics covered are 1) Numbers and Numeration, 2) Operations (both numeric and algebraic), 3) modeling/Multiple Representation (with real-world problems) 4) Measurement (with formulas and graphs), and 5) Patterns/Functions (both linear and quadratic). A State Regents exam is given at the completion of this class and a passing grade is required for graduation.

**12**

**Geometry** 1 credit

Prerequisite: Algebra

This course is the second year of the three-year sequence for math. This course covers the following topics: 1) Operations (with real and complex numbers), 2) Problem solving (using symbolic representation of equations and inequalities), 3) Graphing, and 4) Patterns and Functions. A Regents exam is given at the completion of this class in June.

**Algebra 2/Trigonometry** 1 credit

Prerequisite: A minimum 75% GPA in Algebra & Geometry

Algebra2/Trigonometry is the capstone of the three units of credit required for an Advanced Regents Diploma (math portion.) This course is a continuation and extension of the two courses that precede it. While developing the algebraic techniques that will be required of students who continue their study of mathematics, this course is also intended to continue developing alternative solution strategies and algorithms with the help of a graphing calculator. A Regents exam is given at the completion of this class in June.

**Pre-Calculus** 1 credit

 Prerequisite: Algebra 2/Trigonometry

This course is designed to create a foundation for success in college-level mathematics courses, including calculus, by expanding upon the concepts of algebra and trigonometry introduced in previous math classes. Algebra topics include polynomial and rational functions, factor and root theorems and matrix algebra. Trigonometry topics include graphs, law of sine and cosine, identities, half and double-angle formulas and inverse trig functions. Other topics include conic sections, sequences, and series and an introduction to limits.

 **JCC Calculus MAT 1710**  1 credit

 Seniors Only 4 College Credits

 Prerequisite: Pre-Calculus @ ECS $60 Book

 85% GPA in Pre-Calculus

Students will study the fundamental concepts of calculus. Topics include an introduction to analytical geometry, functions, limits and continuity, and derivatives and integrals and their applications.

**JCC Statistics Mat 1540** 1 credit

 Seniors Only 3 College Credits

 Prerequisite: 85% average in Algebra 2/Trig $60 Book

 **Or** Teacher Permission

Students will investigate various topics in both descriptive and inferential statistics including measures of central tendency and spread, graphical analysis of data, probability, random sampling, correlation and regression, hypothesis testing and confidence intervals. Practical applications are emphasized throughout the course. Students in this class will also learn how to use statistical software called Minitab.

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**SAT Prep-Math** .25 credit

 $20 Book

Students will work on techniques to help prepare for the math section of the SAT. Students will be exposed to actual test questions as well as full length practice tests.

**Consumer Math** 1 credit

The course is designed to provide students with the mathematics needed in daily life. It will emphasize a review and refinement of the basic fundamentals of arithmetic in a setting of practical use. Topics of instruction will include personal income, automobile ownership, and commercial transportation, purchasing consumer goods and banking services.

**SCIENCE**

Students must pass at least one science regents exam in order to be eligible for graduation.

**The following science courses are considered weighted:**

**Earth Science or Biology (2nd Science), Chemistry, & GCC Physics.**

**Physical Environment - 'Earth Science'** 1 credit

The course will focus on the non-living portion of the Earth. (Atmosphere, Lithosphere, Hydrosphere and Astronomy). A State Regents Exam will be given at the completion of this course

**Earth Science Lab**

Students taking Earth Science must satisfactorily complete a minimum of 1200 minutes of laboratory time during the school year. This will include laboratory reports prepared by the student.

**Biology/The Living Environment** 1 credit

It contains seven core topics and five extended areas. This course provides students with awareness of natural world, basic scientific concepts, stimulation of inductive reasoning and basic understanding of biologic processes and generalizations. A State Regents Exam will be given at the end of this course.

**Biology Lab**

All students must participate in a minimum of 1200 minutes of lab each year and submit an acceptable report of their work. Within the lab students will use equipment and do hands-on experiments reflecting class content.

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**Environmental Science**  1 credit

Students will be introduced to the historical development and ideas in science and will apply scientific concepts, principles and theories pertaining to the physical setting and environment. Students will continue to explore more in depth principles and theories related to the environment. The students will access, generate, process and transfer information using appropriate technologies.

**Chemistry** 1 credit

 Prerequisite: 75% GPA in Biology **&** Earth Science

The course covers the study of matter, kinetics, and applications of chemical properties. A State Regents Exam will be given at the end of this course.

**Chemistry lab**

Experiments in all phases of high school chemistry are covered. Laboratory write-ups are mandatory. A Student must complete a minimum of 1200 minutes of lab time and receive at least a 65% to be eligible to take the Regents exam.

**GCC Physics 121**  1 credit

Genesee Community College 4 College Credits

 Juniors & Seniors $350 Course/Book

 Prerequisite: Earth Science, Biology, Chemistry

 Algebra 2/Trigonometry

An algebra/trigonometry-based introduction to physics for college students with majors that may be somewhat related to physics. Topics include one and two dimensional motion, Newton's Laws, energy, momentum, rotation, statics, fluid mechanics, heat and thermodynamics, and special relativity.

**GCC Physics 122** 1 credit

Genesee Community College 4 College Credits

 Prerequisite: Physics 121 $350 Course/Book This is the second semester of GCC's College Physics course. It is an algebra/trigonometry based introduction to physics for career or transfer students with majors somewhat, but not closely, related to physics. Topics include Coulomb's law; potential; Kirchhoff's laws; capacitance; magnetic fields; induction; Resistor-Capacitor(RC), Resistor-Inductor(RL), and Inductor-Capacitor(LC) circuits; alternating currents; sound; electromagnetic waves; standing waves; interference; optics; atomic and nuclear physics. Labs are required and are integrated into the class time.

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**BIO 1510 Health Science** 1 credit

 3 College Credits ? Book Cost

Students will investigate a variety of health-related topics, many of which are useful in planning a healthier lifestyle. Topics include stress, mental health, nutrition, human sexuality and reproduction, birth control, sexually transmitted and other diseases, cardiovascular health, cancer, drugs (including alcohol), and environmental health. This class will fulfill High School Health requirement.

# Foreign Language

Any student pursuing an Advanced Regents Diploma must pass the French or Spanish Regents at the conclusion of the third level.

**The following courses are considered weighted:**

**Spanish III Advanced Spanish, French III, NU French 103 & 104.**

**French I** 1 credit

The first course in a high school sequence, it builds on the introduction of French in the Middle School, although is still a level one course. Conversation and language for communication are stressed.

**French II** 1 credit

A continuation of French I. The 15 topics New York State Syllabus are covered with equal emphasis on the four language skills: reading, writing, listening, and speaking.

**French III** 1 credit

A continuation of French II. The 15 topic New York State Syllabus are covered in depth with equal emphasis on the four basic language skills. A Comprehensive exam will be given at the end of this course.

**NU French 103**  1 credit

 Prerequisite: French III 3 College Credits

 Tuition $200

Review and expansion of communication skills (speaking, reading and writing) through materials reflecting the history, literature, and culture of the Francophone world. This course is offered to the above average French student. The emphasis in this course will be mastery of the language skills with literature, history, and cultural introductions.

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**NU French 104**  1 credit

 Prerequisite: NU French 103 3 College Credits

 Tuition $200

Review and expansion of communication skills (speaking, reading and writing) through materials reflecting the history, literature, and culture of the Francophone world. This course is offered to the above average French student. This is the continuation and expansion of NU 103.

**Spanish I** 1 credit

A beginning course, which emphasizes conversation and basic Spanish grammar. Students learn how to read and write by acquiring topical vocabulary, which encourages communication. There is also much cultural study at this level.

**Spanish II** 1 credit

An intermediate course in which the students learn advanced grammatical structure. They augment their functional vocabulary, knowledge of culture, speaking, reading and writing skills in preparation for the Regents Examination at the end of Spanish III.

**Spanish III** 1 credit

Students continue to develop the four skills of listening, speaking, reading and writing according to the fifteen topics and standards mandated by the New York State Syllabus. A State Regents Exam is given at the end this course.

**Advanced Spanish**  1 credit

This is a one year course for students wishing to improve their conversational skills and to prepare to further prepare for college level Spanish. This class will review indicative verb tenses and subjective verb tenses which will include present and past subjunctive with all instances of use.

# Art

**The Following course is considered weighted:**

**JCC Ceramics**

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**Studio in Art** 1 credit

Here is a course designed to give you, as an expressive being, a chance to gain a variety of skills and to use a variety of tools and materials to produce two and three-dimensional works of Art. Included in this program are methods of learning to draw that really work. Even if you have never held a pencil before, you can learn to draw to such a degree that your parents and friends will be amazed. You will be amazed too. The lessons start slowly, using such materials as pencil, charcoal, pastels, ink, and markers. Other modules will include: Ceramic Clay to produce pottery and sculpture, painting with watercolor, Calligraphy, the art of fancy lettering.

**Painting** .5 credit

 Prerequisite: Studio Art

This half year course will expose students to a variety painting techniques and materials such as watercolor, tempera, acrylic and oil paints. The art students will produce works of art that explore different kinds of subject matter, topics and themes. A greater emphasis is placed upon personal development of style and the increased competence that results from having taken previous art courses.

**JCC Ceramics I ART1590**  1 credit

 3 College Credits

 Prerequisite: Studio Art $50 Fee

Students will gain a working knowledge of fundamental and advanced studio work in clay preparation, hand building, throwing, mold making, slip casting, glaze preparation, decorating techniques, and firing techniques.

**Digital Drawing and Painting**  .5 credit

**with a Graphics Tablet**

Prerequisite: Studio Art

A graphics tablet is a device used by artists which allows you to draw a picture onto a computer screen without having to utilize a mouse or keyboard.  Students will learn how to “draw” digital pictures using various programs that simulate a variety of mediums including pencil, pastel, charcoal, watercolor and oil paint.

Students will use knowledge attained in Studio Art to develop a series of digital works based on one theme as well as other projects that show mastery of concept.  They gain experience in formal, technical, and expressive methods of working in digital art and share experiences and ideas in group critiques.

**18**

**Creative Crafts** .5 credit

 Prerequisite: Studio Art

Folk art and craft was an experiment that worked. This is a course where crafts from around the world are done. The projects come from ones that the student enjoyed the most during the last ten years and some new ideas for projects that have been researched by the instructor and students. Materials for handmade crafts are clay, wood, glass, fibers, leather, metals, and more. Some highlights include: Ceramics & pottery, glass & metal etching. Metal shipping and piercing, jewelry making, carving and sculpture, musical instruments, and more!

**Business & Technology**

**Introduction to Engineering Design**  .5 credit

Students are introduced to the basic concepts of engineering and design using Solid works 3 dimensional engineering design software. The goal of this course is to teach the fundamental skills and concepts to build parametric models parts and assemblies and how to make simple drawings of those parts and assemblies.

**Robotics**  .5 credit

 Prerequisite: Intro. To Engineering Design

In this introductory programming course, robots are used to illustrate the fundamental concepts in computer programming and problem solving. Students get a chance to explore Robotics and Computing Science in a fun and stimulating way.

**Digital Media**  .5 credit

This course introduces the tools, techniques, and concepts behind the production of digital media. Application of digital media technologies including operating systems, hardware, software, and multimedia design are explored.

**Video Production/Editing**  1 credit

Introduces students to producing and editing digital videos. Emphasis is placed on the use of portable video equipment, lighting, audio and video graphic skills. Learn to edit footage, add transitions, sync sound, add titles and credits. Filming, lighting, script writing, editing, post-production and the incorporation of special effects using 2D & 3D elements are all part of this highly intensive program.

**19**

**Principles of Software & Apps. Development**  1 credit

This course introduces students to the principles and practices of software and application development. Course content includes instruction in critical thinking, problem solving skills, and essential programming logic in object-oriented design using Visual Basic programming software.

**Robotics Competition** .5 credit

The robotics competition course is designed to explore the current and future use of robotic technology in industry and everyday use. The students will receive a comprehensive overview of robotic systems and the subsystems that comprise them. This robotics course will be offered in the fall semester in order to prepare for a robotics competition scheduled every year in December.

**Health & Physical Education**

**Physical Education** .5 credit

 NYS Graduation Requirement

All students in grades 9-12 will actively participate in Physical Education class and meet the curriculum standards associated with the class. Students will be responsible for a written assignment each quarter in addition to active participation during each class.

Students must take one Physical Education class each year that they are in high school. 2 units of credit are required for graduation.

**Fitness for Life** .5 credit

Open to grades 10-12

This alternative physical education class will focus on Strength Training, Core Body Exercises and Cardio respiratory Fitness Activities. Students will also be creating a Personal Fitness Plan and will be responsible for recording progress throughout the year.

Weight Lifting .5 credit

This course will be offered to students to fulfill their Physical Education credit or can also be taken in addition to their regular P.E. class.

The goal of the course would be to provide students with the opportunity to lift and enhance their overall physical fitness. This class will also assist students on targeting muscles, developing workout plans, managing time and space with a specific workout routine, creating and practicing exercises with different pieces of equipment including medicine balls, kettle bells, weighted ropes, arm bands, plyometric boxes, etc... Students will have an opportunity to get a great workout in every other day all while learning the techniques and the reasoning behind each lift.

**20**

**High School Health** .5 credit

 Open to: Juniors & Seniors Only

 NYS Graduation requirement

The World Health Organization states that Health is a state of complete physical and social well being, not merely the absence of disease or infirmity. Health is a dynamic, multi-dimensional state of well being (physical, mental emotional, social and spiritual) that is variable, constantly changing and never stable.

Upon completion of this course, a student will have the basic understanding of the components of Health. This class will also fulfill the NYS Education Department requirement for parenting education. Students will learn about the responsibilities of being a parent, child development, and providing for a family.

MUSIC

**The Following Course is weighted:**

**JCC Music Theory**

**High School Band** .5 credit

The ECS Band meets all year, and is open to all students in grades 9 through 12 who play a brass, percussion, or woodwind instrument. This group performs many times during the school year for concerts, community activities, and special performances. Band concerts are mandatory and graded. Students are required to attend group lessons on a weekly basis.  In addition, students will have individual opportunities to participate in events like CCMTA & NYSSMA Solo Festivals, CCMTA All-County and All-State.  The course is designed to provide an opportunity for the instrumentalist to expand his/her knowledge of their instrument and to continue development of music appreciation and understanding through study and performance of examples of various genres of music literature.

**High School Chorus** .5 credit

The student will be given the opportunity to appreciate and perform a variety of music in three or four part harmony. Through performances the student will develop a mastery of the elements of music. Hopefully, they will develop a love of choral music and be a performer and an appreciative listener the rest of their lives. In addition, students will have individual opportunities to participate in events like CCMTA & NYSSMA Solo Festivals, CCMTA All-County and All-State. .

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**JCC Music Theory MUS1570** 1 credit

 3 College Credits

Introduces the student to the basic fundamentals of reading and writing music. Students will work with elements of common practice theory and harmony through written assignments and aural skills training.

Career and Technical Education

Sophomores are introduced to the Career and Technical Education courses offered at BOCES through an orientation program. Students may elect to attend BOCES in their Junior and Senior years. Most courses are offered in a two-year certificate program but one-year certificates can also be earned.

**IN ORDER TO BE ELIGIBLE TO ATTEND BOCES, STUDENTS MUST HAVE SUCCESSFULLY COMPLETED ALL REQUIRED COURSES IN 9TH & 10TH GRADE.**

**STUDENTS WHO FAIL A CLASS WILL NOT BE ABLE TO ATTEND!**

Career and Technical Education programs at the Ellicottville Career include:

 Animal Science

Auto Technology

Carpentry & Construction Trades

Collision Repair Technology

Cosmetology

Criminal Justice

Culinary Arts

Early Childhood/Human Services

New Visions Hospitality & Tourism Management

Media Communication Technology

Medical Assisting

Natural Resources

Power Equipment Technology

Project Lead the Way

Welding

The New Visions courses require student to complete an application in order to be accepted.

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