

Clymer Central School



Course Guide 2023-2024

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INTRODUCTION

The purpose of this publication is to stimulate increased student and parent involvement in the process of course selection and scheduling. We have listed all of the courses that will be offered during the next several years at Clymer Central School. Any new courses that might be mandated by the State Education Department or elective courses that are developed will be added to this guide as necessary.

In this guide, you will find a brief summary of each course and the requirements for a New York State high school diploma as mandated by the Regents Action Plan. Requirements for both the Advanced Regents diploma and the Regents diploma are listed.

It is our hope that you will use this guide to plan your high school academic career. Your school counselor stands ready to provide guidance in assisting students in making wise, relevant, and individualized decisions when selecting courses.

Planning an educational program is an important responsibility as the subjects chosen in high school will have a great influence on one's future. In selecting a program of study, the student should give meaningful thought to future education and vocational goals, past achievements, abilities, aptitudes, and interests.

To reach an informed decision regarding appropriate course selections, the student is urged to study this guide and meet with their counselor. The Student Services Department personnel and individual instructors in each academic department will be happy to make recommendations for any student based on their ability, interest, and past performance. The ultimate responsibility for the proper selection of courses rests with the parents/guardian and student.

COURSE SELECTION

Students should use this course guide as a reference as they consider what courses they will take during the upcoming school year. Each student will meet with the school counselor for a scheduling appointment to indicate their course preferences.

Students are required to carry a minimum of six credits plus physical education each year. For an early release or late arrival, students must have a job requiring them to be dismissed early or to arrive late. Students must then complete an early release / late arrival form and have it approved by parents, the school counselor, and the high school principal. In addition, students must be in academic good standing.

Please give careful consideration to your course selections. Keep in mind the requirements for earning a high school diploma. See chart on the following page for Clymer Central School's graduation requirements based on New York State standards.

Parents, we strongly encourage you to be part of the planning process. Your input is always appreciated. Please do not hesitate to contact the counseling office at 716-355-4444 ext. 2028 for Corey Rhodes or ext. 2027 for Shelby Coder.

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Regents Diploma

Advanced Regents Diploma

Subject	Required Credits	Regents Exams		Subject	Required Credits	Regents Exams
English	4	1		English	4	1
Social Studies	4	1		Social Studies	4	2
Mathematics	3	1		Mathematics	3	3
Science	3	1		Science	3	2
Health	.50			Health	.50	
Fine Arts	1			Fine Arts	1	
Physical Ed.	2			Physical Ed.	2	
Second Language	1	(Checkpoint A)		Second Language	3	1 (Checkpoint B)
Electives	3.5			Electives	3.5	
Math, Science, Social Studies, CTE, LOTE or Arts exam Or CDOS Credential		1		Math, Science, Social Studies, CTE, LOTE or Arts exam Or CDOS Credential		
Total required for diploma type	22	5 plus Checkpoint A		Total required for diploma type	22	8 plus Checkpoint B*

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PATHWAYS

*This is the traditional combination, there is also a Pathway, Math and Science Combination

Pathway Combination (other than STEM): ELA, 1 social studies, 3 mathematics, 2 science (1 must be life science and 1 must be physical science), and either 1 Pathway (other than science or mathematics) or meet the requirements for the CDOS Commencement Credential = 7 or 8 Assessments

STEM (Mathematics) Pathway Combination: ELA, 1 social studies 4 mathematics, 2 science (1 must be life science and 1 must be physical science) = 8 Assessments

STEM (Science) Pathway Combination: ELA, 1 social studies, 3 mathematics, 3 science (1 must be life science and 1 must be physical science) = 8 Assessments

In addition a student must pass either a locally developed Checkpoint B LOTE examination or complete a 5 unit sequence in the Arts or CTE

There are other diploma options available for students with disabilities. Please see the link titled "February 2017 Updated Diploma Requirements". This can be found in the Guidance/Course Guide section of the school website. This is where you can also find the description of all courses offered at CCS.

DEFINITION OF TERMS

Required Subjects – These are subjects all students must take to meet state and local graduation requirements.

Electives – These subjects are not required but are chosen by the student.

Prerequisites – The requirements a student must meet in order to be eligible to take a given subject.

Clymer Central School attempts to offer a wide variety of courses for students to choose from. For this reason not all courses are offered on a yearly basis. Some elective courses are taught every other year or possibly every three years. You will find the years that course will tentatively be offered following the name of the course. It is possible that a course could be dropped due to low enrollment.

GRADING AND PROMOTION

PowerSchool Parent Portal

Students and parents may review grades at any time on the parent portal. Please visit the school website (clymercsd.org) to request access to the portal.

Report Cards are issued every 10 weeks. Minimum passing grade in each subject for all students is 65%.

Interim Progress Reports are issued every 5 weeks, between report card periods. Teachers may issue reports of positive academic progress and are required to issue reports of academic deficiencies if a student is failing, near failing, or any other academic concerns.

Failed Courses must be completed by passing in summer school or by repeating the course for a full regular course term.

Summer school is the best method available to clear up a required course deficiency. Students who wish to enroll in summer school should contact their school counselor. Since registration for summer school often takes place **before** final report cards are received, any student who suspects that they may fail a required course should check with their teacher of the course and their counselor before leaving school in June.

Students who decide not to attend summer school will be reassigned to the required course that was failed the following year. Students who do not attend summer school to make up a failed required course may be retained and are risking their chances to graduate in the typical four-year time span. This option could result in schedule conflicts and result in a delay in graduation.

COURSE SELECTION CONSIDERATIONS

In addition to selecting courses that are necessary to meet high school diploma requirements, students should be considering their post high school plans. Although specific career goals can change, tentative plans should be developed.

To simplify this, most Clymer High School graduates will choose from the following options:

- 1) to continue their education at a four-year college or university
- 2) to attend Jamestown Community College or another two-year college with intentions to transfer to a four-year college
- 3) to enroll in a specific career training school to prepare for a skilled job, such as Jamestown Business College, Alfred State College, or a hospital school of nursing
- 4) seek employment locally or elsewhere
- 5) enter a branch of military service for further career training and experience

Whichever option a student might be considering, as many opportunities as possible should be kept available by mindful course selection.

COLLEGE PREPARATION

Students who plan to continue their education at a two-year or four-year college should take a challenging, college preparatory course load as appropriate for that individual student. A mark of 75% is the suggested minimum college recommended grade.

A college prep program should include at least four credits each in mathematics and science. Many colleges also require 3 credits of a foreign language. College admission requirements differ greatly. The more selective a college is regarding admission standards, the stronger the high school record should be. Recommendations and participation in extracurricular activities are also of significance when it comes to applying to colleges.

*Students should choose classes that are the best fit for **them**. Each individual student has their own needs and their own desires and have a wonderful opportunity to create their **own** path!

AGRICULTURE

Animal Science I & II (Livestock)

½ credit each (can be used as a science credit)

9th- 12th graders

Prerequisite - none

Weighted Value - 100

This course will focus on the production and management of farm animals. Historically called animal husbandry, we will discuss breeds, anatomy, feeding, housing and facilities, reproduction, basic disease diagnosis, and all the products derived from each species. Livestock to be discussed include bovine, equine, sheep, goats, pigs, and poultry.

Agricultural Mechanics I & II

½ credit each

9th-12th graders

Prerequisite - none

Weighted Value - 100

I - This course offers a basic understanding of the skills needed by today's agricultural mechanics. Students learn basic skills in welding, small engines, plant science, and agricultural equipment maintenance and repair. Students use skills through hands-on applications where they design and build projects, fix machinery, and learn safe shop maintenance. Students also have the opportunity to participate in various field trips where they compete in career development events at colleges and fairs.

II - Students experience more in-depth design and operation of agricultural equipment. Students use repair and maintenance manuals to refurbish/overhaul equipment brought in by community members and students (upon approval). Students also have the opportunity to participate in various field trips where they compete in career development events at colleges and fairs.

Agricultural Mechanics III & IV

½ credit each

10th- 12th graders

Prerequisite – none

Weighted Value - 100

Students will build off previous skills learned in AG Mechanics I and II and will be able to create individual projects using welding, plasma cutting, and torches, to fabricate projects. This course also serves as a refresher for general maintenance and repair of equipment and tractors and to prepare students to enter the workforce.

Agricultural Construction

½ credit

9th-12th graders

Prerequisite – none

Weighted Value - 100

This course covers the basic construction methods used in the Agricultural and related industries. Students will complete a scale model barn, representing all common building materials as they learn about each phase of an agricultural construction project. Carpentry skills will be practiced as the students will construct a medium sized project.

Food Science

½ credit

9th-12th graders

Prerequisite - none

Weighted Value - 100

Food science and safety is a specialization course in the CASE program of study. Students complete hands-on activities, projects, and problems that simulate actual concepts and situations found in the food science and safety industry, allowing students to build content knowledge and technical skills. Students investigate, experiment, and learn about documenting a project, solving problems, and communicating solutions to their peers and members of the professional community.

Floriculture/ Horticulture and Greenhouse Management I & II

1/2 credit each (can be used as a science credit)

9th - 12th grade

Prerequisite - none

I - This course is devoted to the greenhouse industry and the production of crops. Greenhouse structures, equipment, and management will provide the basis for growing many crops and other plants for making profit. Part I will deal mainly with greenhouse structures, climate control, automation, growing media, plant nutrition, plant anatomy, plant propagation, growing potted plants, bulbs, etc. Students will also learn floral design to create centerpieces, holiday arrangements, corsages, boutonnieres, etc.

II - Students will continue to build knowledge of greenhouse management with selected projects to raise money for FFA and other community activities. This will also provide students with the capability to manage plants for profit.

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Landscaping I & II

½ credit each

9th-12th graders

Prerequisite - none

Weighted Value - 100

Areas of study will include; landscape drawing and design, safety, career exploration, turf and lawn care, irrigation and drainage, identification of landscape and turf plants, pests and diseases, job estimating, environmental planning, and interpersonal skills.

Woodworking

½ credit

9th-12th graders

Prerequisite - none

Weighted Value - 100

Woodworking is a course designed to introduce students to general woodworking practices. Students will expand their knowledge and experience through various projects, lessons, and vocabulary. Students will be expected to learn about and safely use hand tools, power tools, and woodworking machinery. The projects are designed to give students as much experience as possible by using many different machines and tools. The projects will also cover as many aspects of the building and woodworking industries as is possible in an entry level course.

ART

Studio in Art

1 credit

9th-12th graders

Prerequisite – none

Weighted Value- 100

Students will work with a variety of media and expand upon, through studio production, the elements and principles of art, techniques, art history, art appreciation and criticism. Students will also participate in a field trip to a museum to experience a rich cultural and learning institution.

Black and White Photography

½ credit

10th– 12th graders

Prerequisite – Studio in Art

Weighted Value - 100

This course focuses on the use of a 35mm manual Single Lens Reflex (SLR) camera, film developing, processing prints, and mounting. Students will learn how to take strong photos using composition, contrast, exposure, and lighting.

Ceramics

10th– 12th graders

Prerequisite – Studio in Art

Weighted Value - 100

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

Digital Photography

½ credit

10th– 12th graders

Prerequisite – Black & White Photography

Weighted Value - 100

This course introduces digital photographic equipment, theory and processes. Using digital cameras students will learn camera operation, composition, creative expression, and computer photo manipulation using Adobe Photoshop. Upon completion, students should be able to successfully expose, digitally manipulate, and print a well-conceived composition.

Sculpture

½ credit

10th– 12th graders

Prerequisite – Studio Art

Weighted Value - 100

A variety of construction techniques and materials will be used to explore three-dimensional “form”. Historical and contemporary three-dimensional art will be discussed to inspire self-expressive student work. Materials used may include: wood, metal, plaster, sandstone, recycled materials, paper products, fibers, and clay.

Video Game Design I & II

½ credit

10th-12th graders

Prerequisite - none Weighted Value - 100

This course will teach the foundation of video game programming and design required to build your own strategy/action adventure/simulation video game developed in the writing portion of this course. We will learn and use the community-focused game creation tool Core to develop and publish high quality games. It includes an introduction to Lua scripting in Core and the tools of Core Editor to customize tools for specific uses.

The writing portion of this elective will introduce learners to the importance of storytelling in an interactive gaming environment. Students will focus on the concepts of narrative creation in relation to game design, as well as storyboarding and script development. By the end of the semester, students will have developed a working storyline for a video game of their own creation. This storyline will include character descriptions and motivations, world lore and fundamental principals, and functional plot sequencing with dialogue.

JCC Drawing I - ART 1510

½ credit (3 college credits)

11th- 12th graders

Prerequisite – Studio in Art

Weighted Value - 110

Students will gain a working knowledge of foundation skills and abilities in artistic visual expression. Students are introduced to drawing media and concepts. Students learn to draw perceived objects and become able to discuss the drawings meaningfully.

JCC Ceramics I - ART 1590

½ credit (3 college credits)

11th- 12th graders

Prerequisite – Studio in Art

Weighted Value - 110

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.

Media Production I-IV

1 credit

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9th-12th graders
Prerequisite - none
Weighted Value - 100

The purpose of this course is to provide a project-based media arts program, which guides students to achieve the standards in the media production area, by providing students with the technical instruction and practical experiences for production of a morning announcement program, video, and other media projects. Students experience both the creative and technical aspects of media production and will be instructed on the three stages of project creation. In pre-production, students learn the basic principles of story development, writing, storyboarding, and scheduling. Instruction in the production stage includes basic visual composition, color theory, set up and operation of camera, sound, and lighting equipment. Students learn to use software applications for video and audio post-production. Mastering and delivery methods, in both traditional and new media, are explored. The course also includes the production of the CCS morning announcement broadcast.

BUSINESS

Graphic Communications I-IV(Can be used as an art credit)

½ credit
9th- 12th graders
Prerequisite - None (Photography is recommended but not required)
Weighted Value - 100

In Graphics 1 students will focus on desktop publishing and journalism using the yearbook as the major focus. Computer programs used include Adobe InDesign and Adobe Photoshop. Students will also learn how to use a digital camera and scanner.

JCC Personal Finance - BUS 1610/Career & Financial Management

½ credit (3 college credits for 11th and 12th graders)
9th- 12th graders
Prerequisite - none
Weighted Value - 110

This course is "Reality 101" for all students to prepare for adult life beyond high school. Units of study include employment perspectives, job search skills, apartment/house hunting skills, how to purchase a new or used car, how to purchase all kinds of insurance (car, health, life, property), manage finances (checking/savings accounts/saving for retirement/investing), etc.

JCC Word Processing – BUS 1320

½ credit (3 college credits)

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11th– 12th graders

Prerequisite – College Keyboarding – JCC BUS 1220

Weighted Value - 105

Students will learn to create, edit, save, and print documents. Preparation of business letters and reports will enhance basic and production skills and office simulation activities. The ability to produce and edit professional business documents is strengthened. The course provides hands-on training in word processing software.

Food Truck Entrepreneurship

1 credit

9-12 graders

Prerequisite - none

Weighted Value - 100

Did you ever wonder what it would be like to start your own business or operate a food truck? Now is your chance! This hands-on class takes you through the entire process of planning a business, building your own food truck, and learning all the "ins and outs" of running a food truck! Students will learn how to operate the equipment on the truck, plan, prepare and serve food, become federally licensed food handlers, and plan food truck events through a variety of daily hands-on activities. Students will also learn to operate a cash register, create and design graphic menus, price lists, and promotional materials, handle customer requests, and participate in events such as Cupcake Wars, Food Truck Face-off, and have opportunities to work on the CCS Food Truck at future events! Students will be in either the H.E. kitchen or on the truck to complete food labs weekly to explore food truck festival food ideas.

Hospitality Management

1 credit

9-12 graders

Prerequisite - none

Weight Value - 100

This course introduces students to career opportunities within the hospitality industry (food service, lodging, travel, tourism, recreation). Students will explore the industry through community connections such as Chautauqua Institution and Peek ' Peak Resort/Scott Enterprises and many others. Students will also learn how to run a food service business using the school's food truck and coffee bar including menu planning, food production and presentation, customer service, food safety protocols, inventory management, pricing, government regulations, marketing/promotion, sales, budgeting, money/resource management. Students will also explore travel/tourism/recreation businesses through hands-on activities, guest speakers, and facility tours.

Principles of Accounting

1 credit

9-12 graders

Prerequisite - none

Weight Value - 100

Principles of Accounting encompasses the complete accounting cycle and provides students with an understanding of double-entry bookkeeping. Accounting for proprietorships, partnerships and corporations are covered as well as income tax preparation. Students will learn how to set up the books of a business as well as how to maintain financial records, compute profit, run payroll, maintain inventory, etc. This course is highly recommended for anyone who plans to study business or entrepreneurship in college, as well as anyone who is interested in owning their own business in the future.

DRIVER SAFETY EDUCATION

Space is limited. Priority is based on age.

Driver's Theory

¼ credit

9th– 12th graders

Prerequisite – Sixteen years of age on or before class starts and must have a permit.

Weighted Value - 100

Driver's Theory is designed to make the student aware of the safety, knowledge, and social requirements to be a good driver. It also meets the drug awareness problems of driving. Students will investigate buying, maintaining, and insuring a vehicle. A minimum of 24 clock hours of classroom instruction is required to successfully complete this course.

Behind the Wheel

¼ credit

9th– 12th graders

Prerequisite – Must be taken concurrently with Driver's Theory

Weighted Value - 100

Behind the Wheel is the skill part of Driver Safety Education where the student is shown and practices safe driving skills. A minimum of 6 clock hours of driving time and 18 clock hours as a passenger is required to successfully complete this course.

ENGLISH

English 9

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1 credit

9th graders

Prerequisite - English 8

Weighted Value - 100

English 9 launches the student into high school English curriculum bridging the gap between junior and senior high. Learning strategies provide the student with basic review and the introduction of new skills. Every attempt is made to provide an integrated language arts program. Often the course of study is thematic centering on the world of survival, for instance. The culminating evaluation is the project: Wherein students are expected to demonstrate the ability to use all of the related communication skills as a means of self discovery, connect and combine information, analyze literature, and apply skills across the curriculum. Diversity in abilities, learning skills, and interest provide for success in the project.

English 10

1 credit

10th graders

Prerequisite- English 9

Weighted Value - 100

Over the course of the semester, students will read novels, short stories, poetry, scholarly articles, academic journals, and a work of William Shakespeare's. We will also study vocabulary, grammar, essay writing, and public speaking. Students will be expected to write essays, complete routine homework assignments, read outside the classroom, and complete thematically relevant projects. Students in this class will write a 4-5 page MLA style research paper. The class will culminate with a cumulative final exam.

English 11

1 credit

11th graders

Prerequisite- English 10

Weighted Value - 100

Using literature as a stimulus, students will learn to write and speak clearly and effectively in English 11. Students will be expected to use language to discover both the power and the beauty of literature as a mirror of human experience. A comprehensive examination and course work will be used as criteria for grading.

English 12

1 credit

12th graders

Prerequisite- English 11

Weighted Value - 100

Students will read works from several genres including poetry, short stories, essays, novels, scholarly articles, academic journals, and a work of William Shakespeare's. Students will be required to

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participate in classroom discussions and complete homework assignments. Students in this class write a 7-10 page MLA style research paper.

JCC Public Speaking - CMM 1610

½ credit course (3 college credits)

11th– 12th graders

Prerequisite: admission by placement score: Writing score 4+ and Reading score 80+.

Weighted Value - 110

The primary concern of this course will be with the source and substance of ideas, evidence, and reasoning that form the basis of good oral communication. Students will develop and present original speeches applying these ideas and the principles of organization, clarity, vitality, and ethics. When speaking, students will learn effective ways to use voice and body language to communicate a message. Additional time will be spent studying the basics of rhetoric and its function in a speech.

JCC College Composition I – ENG 1510

½ credit (3 college credits)

12th graders

Prerequisite: admission by placement score: Writing score 4+ and Reading score 80+.

Weighted Value - 115

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

JCC College Composition II – ENG 1530

¼ credit (3 college credits)

12th graders

Prerequisite: ENG 1510 or placement score: Writing score 7+ and Reading score 80+.

Weighted Value - 115

Students will learn to write precise, clear, substantial, and logical essays. Students 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.

HEALTH

Health and Parenting

½ credit

9th-12th graders

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Prerequisite - none
Weighted Value - 100

The goal of the health class is to have each student recognize the value of attaining and maintaining good health. Units in eating disorders, emotional health, mental health, stress, nutrition, drug and alcohol use, smoking, cardiovascular disease, and HIV/AIDS are studied. Informed decisions can help an individual lead a lifetime of wellness.

LANGUAGES OTHER THAN ENGLISH

Spanish I

1 credit
8th- 12th graders
Prerequisite - none
Weighted Value - 100

Spanish I is a beginning Spanish course with a concentration on basic grammatical structures and vocabulary. Students will have a basic understanding of the language and be able to respond to simple questions. Students also will be introduced to Hispanic cultures and people. Eighth graders may receive high school credit for this course by passing both Spanish 8 and the Proficiency exam in Spanish.

Spanish II

1 credit
9th- 12th graders
Prerequisite - Spanish I
Weighted Value - 100

Spanish II is an intermediate Spanish course that continues to improve on the grammar and vocabulary of Spanish I but stresses written and spoken proficiency. This course provides for an active and in-depth look at Hispanic cultures, slang, and everyday lives.

Spanish III

1 credit
10th- 12th graders
Prerequisite - Spanish II
Weighted Value - 110

Spanish III stresses everyday communication, fine grammar points, and a study of Spanish and early Latin American Civilization.

JCC Intermediate Spanish I - SPA 2510

1 credit (3 college credits)

11th- 12th graders

Prerequisite: Spanish III and admission by placement score; Writing score 4+ and Reading score 80+
Weighted Value - 115

Although a review of the fundamentals of the Spanish language is integral to this course, special attention is given to the continuing development of students' conversational and reading skills. Students build upon their understanding of literature in Spanish through study of the works of Spanish and Spanish-American authors.

JCC Intermediate Spanish II – SPA 2520

1 credit (3 college credits)

11th- 12th graders

Prerequisite – SPA 2510

Weighted Value 115

Although a review of the fundamentals of the Spanish language is integral to this course, special attention is given to the continuing development of students' conversational and reading skills. Students build upon their understanding of literature in Spanish through study of the works of Spanish and Spanish-American authors.

MATHEMATICS

Algebra I A & Algebra I B

1 credit each

9th- 12th graders

Prerequisite - Math 8

Weighted Value - 100

This course covers the same material that is covered in Algebra I but over a two year period. This is a great choice for students that require extra time in math.

Algebra I

1 credit

9th- 12th graders

Prerequisite - Math 8

Weighted Value - 100

Operations with polynomials; solving linear equations and inequalities; systems of equations; graphs and solutions of linear, quadratic, exponential, absolute value and piecewise functions; transformations of functions; univariate and bivariate statistics.

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Geometry

1 credit

10th– 12th graders

Prerequisite - Integrated Algebra

Weighted Value - 100

Quadratic equations and inequalities; radical equations; equations of a line and of a circle; midpoint and distance formula; median and altitude of a triangle; geometric shapes on the coordinate plane; parabolas; locus; logic; congruent and similar triangles; deductive proofs parallel lines; angles of polygons; quadrilaterals; mean proportions of triangles; tangents, secants and chords of a circle; angle measurement with a circle; and constructions.

Algebra II

1 credit

10th– 12th graders

Prerequisite - Algebra I and Geometry

Weighted Value - 110

Absolute value, quadratic, and radical equations; rational equations and inequalities; polynomial and trigonometric equations; exponential and logarithmic equations; advanced factoring; rules of exponents; logarithmic properties; trigonometric functions and graphs; special triangles; unit circle; law of sines and cosines; trigonometric proofs; complex numbers; radian measure; permutations and combinations; theoretic and empirical probability; independent and dependent probability; correlation coefficient; and standard deviation.

JCC Problem Solving with Math – MAT 1500

½ credit (3 college credits)

11th - 12th graders

Prerequisite – Integrated Algebra or Algebra I and admission by placement score; Reading score 80+ and Math score 57+

Weighted Value - 105

Students will develop problem solving skills through a detailed study of topics such as financial mathematics, linear and exponential modeling, and geometry, in concert with specific problem solving strategies such as drawing diagrams, making systematic lists, looking for patterns, identifying sub

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problems, and working backwards. Solution presentations and communication are emphasized.

JCC Elementary Statistics – MAT 1540

½ credit (3 college credits)

11th - 12th graders

Prerequisite – Geometry and Problem Solving with Math or admission by placement score; Reading score 80+ and Math score 76+

Weighted Value - 110

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.

JCC Pre-Calculus - MAT 1600

1 credit (4 college credits)

11th - 12th graders

Prerequisite - Integrated Algebra II and Trigonometry

Weighted Value - 110

This course is designed to prepare a student for studying calculus and discrete mathematics. Algebra topics include functions and their graphs, polynomial and rational function, exponents and logarithms, and trigonometric topics such as analytical trigonometry. Other included topics include polar coordinates, sequences, induction, limits and derivatives. A graphing calculator is used to complement the topics studied.

JCC Algebra and Trig - MAT 1590

1 credit (4 college credits)

11th - 12th graders

Prerequisite - HS geometry final grade 70+ and either Algebra I Regents score or final course average of 80+

Weighted Value - 110

Students will learn algebra and trigonometry topics necessary to prepare them for the study of precalculus. Topics include one-to-one functions and their inverses and graphs, polynomial and rational functions and their applications, radicals and exponents, complex numbers, and trigonometric functions, including graphs and basic identities. Problem-solving and applications are emphasized.

JCC Calculus & Analytic Geometry I – MAT 1710

1 credit (4 college credits)

12th graders

Prerequisite - Pre-Calculus

Weighted Value - 115

Students will study the fundamental concepts of calculus. Topics include an introduction to analytic geometry, functions, limits and continuity, and derivatives and integrals and their applications. A computer algebra system such as DERIVE is incorporated into the course.

Business Math

1 credit

9th– 12th graders

Prerequisite – none

Weighted Value - 100

A wide variety of business topics are covered in Business Math. These include personal finance records, borrowing money, savings and investments, home expenses, and finances of a small business.

MUSIC

Mixed Chorus

½ credit for 9th–12th graders

7th- 12th graders

Prerequisite - none

Weighted Value - 100

Mixed Chorus meets every other day during a rotation for rehearsals. Rehearsals are a vital part of the individual and ensemble growth. Different styles of music such as Sacred, Secular, Spirituals, Patriotic, Jazz, Classical, Oldies, Pop tunes, and songs from Musicals are included in the repertoire. Singers will learn proper technique and good vocal production. They will also work on proper pronunciation of words when sung, good breathing techniques, proper projection of the voice, and

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various other vocal habits for healthy singing. The concerts are considered as important as a major exam would in a core subject. If there is interest to pursue solo or small ensemble singing, students are encouraged to do so after school or join the Glee club. Any student who wishes to do a NYSSMA (New York State School Music Association) vocal solo level III-VI must be able to sight read and choose an appropriate solo from the manual to perform for an adjudicator in May or June. The NYSSMA solo must also be used to get into Area-All State and Conference All-State Choirs. Chorus members are also able to participate in the All-County Winter Festival (Women's Chorus and Vocal Jazz grades 9-12) and the Spring All-County Festival (grades 5-12) at the Chautauqua Institute.

Concert Band

½ credit for 9th-12th graders

7th- 12th graders

Prerequisite – none

Weighted Value - 100

The Clymer Concert Band, a NYSSMA Silver Award winning band, provides important and life-changing musical experiences for all who participate. Students in 7th and 8th grade will participate in Middle School Concert band and students in 9-12 will participate in High School Concert Band. In addition, skills learned from the ensemble equip you for leadership roles after you've left Clymer. It is an opportunity for students to grow musically and develop friendships with students from many different grade levels. Throughout the year, the Concert Band will perform at 2 major concerts - one in December and the other in the Spring, the NYSSMA Majors Band Festival, graduation, and march proudly in the annual Findley Lake Memorial Day Parade and bi-annual Tulip Festival Parade. Outside the concert band, all students are encouraged to perform with the screaming hot "Maroon Madness" pep band. All students involved will be required to attend weekly lessons, practice at home or at school, and attend concerts for mid-term and final exam grades. Students are encouraged to participate in performance groups outside the school curriculum (i.e. All-County Band, Area All-State Music Festivals, and Solo Festival.)

Jazz Ensemble

½ credit for 9th-12th graders

8th - 12th graders

Prerequisite – Concert Band

Weighted Value - 100

The Clymer Jazz Band, CJB, a 20 piece chamber group, consists of students in grades 7-12 and features instruments of the saxophone family, trumpets, trombones, and rhythm section. Other band instruments are allowed under digression of the teacher. Rehearsals are 40 minutes every other day opposite of concert band. CJB performs numerous times throughout the year which includes Open House, the Christmas Concert, the Pops at Clymer, The Jazz Invitational in April, the Spring Concert, and other small performance opportunities. Jazz is America's music, and the CJB offers great opportunities for students to learn about soloing, improvising, playing modern music, and the history of some great jazz musicians.

Glee Club

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½ credit for 9th–12th grade
8th–12th graders
Prerequisite - Mixed Chorus
Weighted Value - 100

Glee club offers a unique opportunity to study advanced vocal techniques in a small select group. Singers will be exposed to A-Capella singing but not limited to one style of music. Basic music theory, history, interpretation, vocal pedagogy, and other musical topics will be covered as it relates to helping the singers become more aware of their voices. Students will explore various types of vocal styles and raise their performance level. The vocalist will be familiar with, and be able to sing proficiently, each piece worked on. Discussion of vocal problems, health, good tone quality, memorization, self-confidence, interpretation, and expression will also be part of the focus. Glee club meets every other day all year long. Vocalists are encouraged to seek outside semi-professional performance opportunities (singing the national anthem at sporting events, church choirs, soloist opportunities, chamber choir festivals, concert in the parks, and leadership roles).

Guitar/Piano Keyboard

½ credit each
9th-12th graders
Prerequisite- none
Weighted Value - 100

Students will learn fundamentals of playing guitar and/or piano/keyboard, how to read notation, basic music theory and how to compose basic songs. Class time will be divided into instruction time on computers/ipads and practice time on their instrument. Grades will be based on individual growth and basic proficiency of the instrument.

JCC Music Theory I - MUS 1570

½ credit (3 college credits)
11th–12th graders
Prerequisite - none
Weighted Value - 110

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. No previous musical experience or skills required. No requisites.

PHYSICAL EDUCATION

Physical Education

.25 credit each semester

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9th- 12th graders
Prerequisite - none
Weighted Value - 100

The responsibility of the physical education program is to provide opportunities for students to achieve the skills, knowledge, and attitudes that will allow them to attain an optimal quality of life and well being. Experiences gained at lower levels are built upon and expanded. The objectives are to develop higher levels along with nurture positive attitudes toward movement and lifetime physical fitness. Grading will be based on attitude, participation, attendance, preparedness for class, and testing. Units covered include, physical conditioning skills and knowledge, flag football, soccer, basketball, floor hockey, softball, volleyball, hockey, lacrosse, individual and dual lifetime sports, tennis, archery, golf, bowling, cross country skiing, table tennis, shuffleboard, and orienteering, self-testing activities, tumbling, track and field, ball handling skills, group games.

Body and Mind Fitness

½ credit
9th- 12th graders
Prerequisite - none
Weighted Value - 100

Within this course, students will be integrating the whole body and mind fitness with their own specific weight lifting plan three times a week and using yoga, agility training, and nutrition plans the other two days to help center the students mental fitness. This course will be a semester-long course.

SCIENCE

Earth Science

1 credit
10th graders
Prerequisite - none
Weighted Value - 100

Earth Science explores the relationship of the earth with other planets, the universe, weather, climate, and living in the space age. The major theme through the course is the investigation of change. Earth Science requires a lab experience using models to solve problems. Each student must file at least 30 labs to complete the course.

Living Environment

1 credit
9th graders
Prerequisite - none

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Weighted Value - 100

Living Environment, formerly called Biology, is designed to provide an awareness of the natural world, an understanding of biological concepts and processes, and an exposure of biological careers. A lab experience is required for this course. Each student is required to complete a minimum of 30 written laboratory investigations.

Chemistry

1 credit

11th- 12th graders

Prerequisite – Integrated Algebra (Geometry recommended)

Weighted Value - 110

This course is designed to prepare students to explain, both accurately and with appropriate depth, concepts and models relating to chemistry. Each student will be scheduled for a laboratory session as well as the daily class sessions. All laboratory activities must be successfully completed in order for a student to sit for the final examination. Some background in mathematics is assumed. Students will explore the following Concepts: Atomic Structure, The Periodic Table, Stoichiometry, Chemical Bonding, Physical Properties of Matter, Kinetics and Equilibrium, Organic Chemistry, Oxidation and Reduction, Electrolytes, and Nuclear Chemistry.

Physics

1 credit

11th- 12th graders

Prerequisite – Geometry (Algebra II/Trig recommended)

Weighted Value - 110

Physics will allow students to comprehend how the world around them functions. Our study of Physics will begin with Newton's Laws as students begin to learn about basic principles related to speed, acceleration, and inertia. Students will investigate the effect of forces on solid bodies and momentum. We will study the nature of Wave mechanics, Electromagnetism, and electromagnetic waves. Lastly, the course will investigate the Physics behind the structure of an atom.

Field Forensics

½ credit

11th- 12th graders

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Prerequisite – Biology/Living Environment
Weighted Value - 100

Field Forensics is a one semester course focusing on DNA and its uses in identifying various types of organisms. Its basis is founded in a good understanding of DNA and how it can be useful in identifying organisms or individuals. Students learn about DNA extraction and gel electrophoresis and the use of the PCR machine and its enzymes that make this possible.

JCC Cell and Molecular Biology - BIO 1570

1 credit (4 college credits)

12th graders

Prerequisite/Corequisite - Chemistry, Algebra 1, ENG 1510

Weighted Value 115

Students will identify, understand, and interpret fundamental biological principles such as the chemical foundations of life, cell structure and function, cellular metabolism, photosynthesis, cellular respiration, cellular reproduction, and classical, human and molecular genetics.

JCC Human Biology - BIO 1500

1 credit (4 college credits)

12th graders

Prerequisite/Corequisite -ENG 1510

Weighted Value 115

This course covers basic structures and functions of the human body. Students will learn about the chemical basis of life, cellular structure and metabolism, tissues, and an overall survey of the organ systems of the body. An introduction to human evolution is presented. Recent developments in science, medicine, and health coupled with environmental issues and their impact on health are incorporated into the course. Laboratory exercises include use of the microscope, experimentation, and hands-on investigation of organ systems.

JCC Biology of Amphibians/Reptiles - BIO 1515, JCC Biology of Birds - BIO 1520

½ credit (2 college credits)

12th graders

Prerequisite/Corequisite -ENG 1510

Weighted Value 115

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Students will learn the basic biology, anatomy and physiology, evolutionary history, classification, behavior, and ecological relevance of amphibians, reptiles, and birds. The first ten weeks of this semester-long course will focus on amphibian and reptile biology and conservation efforts. The last ten weeks will be dedicated to the unique world of birds. Some outdoor field work is required.

JCC Biology of Insects - BIO 1540, JCC Biology of Mammals - BIO 1560

½ credit (2 college credits)

12th graders

Prerequisite/Corequisite -ENG 1510

Weighted Value 115

In this semester-long course, students will learn basic anatomy and physiology, evolutionary history, classification, behavior, and economic impacts of insects and mammals. The first ten weeks will be spent studying the vast world of insects. Field trips and insect collection are required. The last ten weeks will be devoted to mammals. Both sections include outdoor field work.

SOCIAL STUDIES

Global History I

1 credit

9th graders

Prerequisite - 8th grade Social Studies

Weighted Value - 100

Global History I takes the student through five regions of the world. Students will familiarize themselves with Latin America, China, Sub-Sahara Africa, India, and Japan through discussions of the culture of each area. Students will concentrate on the geography, the history, and the personalities of each area. Current events are followed and discussed throughout the school year.

Global History II

1 credit

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10th graders

Prerequisite - Global History I

Weighted Value - 100

Students will concentrate chronologically on the geography, the history, and the personalities involved in the shaping of world cultures from the Enlightenment to modern times. Students will also use UPFRONT magazine to maintain an awareness of current global events and issues. By the middle of June, students will all be prepared to pass the New York State Regents exam.

United States History & Government

1 credit

11th graders

Prerequisite -Global History I & II

Weighted Value - 100

U.S. History & Government has as its core two basic purposes. The first is to convey to the student a sense of their own nation's past and to demonstrate how historical events shape life in the present-day United States. The second is to give the student practical knowledge regarding the development, structure, and function of our democratic form of government. Key areas of emphasis include the Constitution, immigration, technological developments, major historical events/people, and foreign policy.

JCC US History I – HIS 1530

½ credit (3 college credits)

11th - 12th graders

Prerequisite – Global History II and admission by recommendation and placement score; Reading score 4+ and Reading Score 80+.

Weighted Value - 115

Students will be introduced to the history of the United States from the European Encounter through the Civil War. Using the methodology of the social sciences, students will learn and evaluate the major political, social, cultural, scientific-technological, economic, and natural developments that shaped the United States during its formative years; when the American republic was founded, expanded, and tested by division. Students will give special attention to the unique contributions made by diverse peoples and institutions, and the responsibilities of educated citizens today. This course is reading and writing intensive.

JCC US History II – HIS 1540

½ credit (3 college credits)

11th - 12th graders

Prerequisite – Global History II and admission by recommendation and placement score; Reading score 4+ and Reading Score 80+.

Weighted Value - 115

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Students will examine the history of the United States from the conclusion of the Civil War to the present. Using the methodology of the social sciences, students will learn and evaluate the major political, social, cultural, scientific-technological, economic, and natural developments that have shaped the recent American experience. Students will give special attention to the unique contributions made by diverse peoples and institutions, and will better understand the responsibilities of educated citizens today. This course is reading and writing intensive.

Government

½ credit

12th graders

Prerequisite - U.S. History & Government

Weighted Value - 100

Government is a senior level class that takes a look into American government at the local, state and national levels. Much of this course is based on discussions, role-playing, and problem-solving activities. This course includes readings, research projects, and class discussions on current issues that affect our nation.

Economics

½ credit

12th graders

Prerequisite - U.S. History & Government

Weighted Value - 100

Economics is essentially the study of how individuals and society choose to use limited resources in an effort to satisfy unlimited human needs and wants. This course conveys both theoretical and practical knowledge to the student. Initially, there is an overview of basic economic concepts/issues, with emphasis on their applicability to the market system. Microeconomics then focuses on such topics as the consumer, the business firm and market structure, government and business, and labor. Macroeconomics addresses such issues as money, GDP, and monetary and fiscal policy. Finally, international trade and finance are examined in some detail.

World History Through Film

½ credit

11th– 12th graders

Prerequisite - none

Weighted Value - 100

This course will use film to approach significant eras and people in world history. Students will be asked to rethink the *relationships between "reality" and "representation"* and re-conceptualize the boundaries between history and film. The course will be arranged around the *IMPACT of the individual* in history.

Civil War

1 credit

12th graders

Prerequisite – Minimum passing score of 80 on U.S. History Regents.

Weighted Value - 100

This course is a study of the American Civil War. In its design we will focus on the military aspect of the era. However, we cannot study the war without first taking a look at the political and social issues that plagued our country. Students will be evaluated through class discussions, tests, quizzes, projects, and papers. The goal of this course is to give the student an appreciation and better understanding of the sacrifices made by Americans in the 1860's.

TECHNOLOGY

Design and Drawing for Production

1 credit

9th - 12th graders

Prerequisite - none

Weighted Value - 100

This course provides experiences for the student to be given a design problem and present a solution through design and drawing methods. This approach is a major step in the process towards product design and engineering. Students will be exposed to a variety of drawing types, skills, and processes while completing a number of drawings and design briefs. Manual drawing tools will be used as well as 2D CAD and 3D solid modeling software.

Drone Dynamics

½ credit

11th– 12th graders

Prerequisite - none

Weighted Value - 100

This course will cover the fundamentals of drone flight. The mechanics of drone flight will be extensively covered as students learn the basic principles of drone maintenance throughout the course. Flight planning, the authorization process, and commercial use of drones will be the main focuses of the class. Students will be handling and flying drones as they practice these things throughout the semester. The course will culminate in preparing for FAA certification.

Career and Technical Education

The Hewes Career and Technical Education (CTE) Center located at the BOCES facilities in Asheville offers instruction in twelve major areas of vocational training to high school juniors and seniors. With vocational education, students will train for employment. This center is dedicated to teaching high school students the skills that employers need. Course work is organized in a competency format with both theory and hands on experience.

Students who enroll in CTE courses spend half of each school day in their home school and the other half at the BOCES Center. Prospective students are encouraged to visit the BOCES Center for a tour of the facilities prior to submitting an application to enroll. Visits to the BOCES Center are arranged by the school counselors.

****Please note that this is a TWO YEAR commitment****

Students will receive 1/2 credit each of Technical Science and Technical Math each year, 1/2 credit of Career and Financial Management their first year, and one credit of Technical Writing their second year of enrollment in CTE.

Auto Body Repair and Refinishing Technology I & II

2 year program

2 ½ credits the first year, 2 credits the second year

11th - 12th graders

In this challenging and rewarding program, students learn to operate the tools and equipment used in the field of Auto Body Repair. Students develop skills in straightening, aligning, replacing, filling, MIG welding, plasma cutting, painting, airbrush custom painting, automotive finish detailing, and buffing.

Automotive Technology I & II

2 year program

2 ½ credits the first year, 2 credits the second year

11th - 12th graders

This program follows a challenging diagnosis and repair curriculum with hands-on experience on modern automobiles covering the most common high tech systems. Successful students may complete an internship at a dealership during their senior year and may receive Advanced Placement SUNY college credit.

Conservation/Natural Resource Management I & II

2 year program

2 ½ credits the first year, 2 credits the second year

11th - 12th graders

This program is designed to provide students with basic knowledge and hands-on skills leading to employment and educational opportunities in the areas of conservation, landscape management, equipment operation, and a variety of other outdoor careers. General areas of study include wildlife studies, forestry, landscape and greenhouse operations, plant and soil sciences, and equipment operation and maintenance.

Construction Technology I & II

2 year program

2 ½ credits the first year, 2 credits the second year

11th - 12th graders

Students will acquire skills for entry-level work or post-secondary education including rough and finished carpentry, masonry, plumbing, heating, and electrical. Students also receive instruction in construction procedures such as the use of power and specialized tools and equipment, footings and foundations, framing, roofing, siding, stair construction, interior and exterior finishing, blueprint reading, and estimating.

Cosmetology I & II

2 year program

2 ½ credits the first year, 2 credits the second year

11th - 12th graders

This program offers both theory and practical experience necessary to be employed as an entry-level Cosmetologist. Safety, professional image, decontamination, anatomy, haircutting, chemical texturizing services, hair coloring and styling, nail and skin care, makeup, and salon management are topics covered in the curriculum. Second year students participate in a hands-on clinic and those completing the required 1000 practicum hours will be prepared for the New York State Licensing Exam.

Criminal Justice/Homeland Security/Forensics I & II

2 year program

2 ½ credits the first year, 2 credits the second year

11th - 12th graders

Students in this program are provided a general background in the history of Criminal Justice and will receive instruction pertaining to legal terminology and practical application of communication skills necessary for a career in law enforcement at the local, state, and federal levels. Students will study case law as it applies to constitutional issues, law enforcement, courts, and corrections and they will participate in mock trials and scenarios. Students receive certification in CPR/First Aid/AED, Community Emergency Response Team (CERT), FEMA, Firearm Cartridge Case Comparison, Firearm Bullet Comparison, DR-24, National E-911 Dispatch, Ham Radio, and Presidential Service.

Culinary Arts I & II

2 year program

2 ½ credits the first year, 2 credits the second year

11th - 12th graders

The essential components of the food service industry presented include menu planning, food preparation, conversion of recipes, equipment identification, baking, cost analysis, dining room service, and banquet and buffet skills. Culinary principles with emphasis on soups, sauces, and stocks are practiced. Training in sanitation including the availability of Serv Safe Certification, hazard analysis critical control points (HACCP) principles, and kitchen safety is offered. Students are prepared for future employment and/or enrollment at post-secondary schools specializing in the culinary industry.

Diesel/Heavy Equipment Repair I & II

2 year program

2 ½ credits the first year, 2 credits the second year

11th - 12th graders

Students in this program learn and practice diagnostic procedures, disassembly and assembly of engines, fuel systems, clutches, transmissions, drivelines and differentials, and all aspects of diesel engine operation. Precision measuring and the specific use of tools for component repair are taught throughout the program. Brake, suspension, and electrical systems are also incorporated into the program. Oxy-acetylene and electrical arc welding are also taught.

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Health Careers I & II

2 year program

2 ½ credits the first year, 2 credits the second year

11th - 12th graders

The Health Careers program will enable the student to be introduced to a full range of career opportunities in the Healthcare Industry. This course focuses on a strong academic foundation, communication, employability skills, legal responsibilities, ethics, safety practices, health maintenance practices, and technical skills. Students will study basic anatomy and physiology, diseases/disorders, medical terminology, nutrition, geriatrics, child development, infection control, and pharmacology. Students learn to assist with routine patient care, perform basic nursing procedures, and function as part of a healthcare team. The Health Careers curriculum is designed to give students instruction that may lead to New York State Nurse's Aid and CPR certifications as well as meeting the high school health education requirement. Internships at participating health care facilities will expose students to a full range of opportunities in the healthcare industry.

Information Technology/Computer Systems I & II

2 year program

2 ½ credits the first year, 2 credits the second year

11th - 12th graders

Students will receive training in Computer Science theory and introductory level computer networking. First year students focus on hardware, software, and operating systems, while second year students focus on networking. Students will prepare for careers in the information technology industry and will complete CompTIA A+ and Network+ training programs. Instruction will also prepare students to take industry recognized CompTIA A+ and Network+ exams as well as a certification in Microsoft Office software. In addition, students will develop Android Smartphone applications.

Small Animal Science I & II

2 year program

2 ½ credits the first year, 2 credits the second year

11th - 12th graders

This course teaches students specialized and advanced skills in areas of veterinary assistance, the care and handling of animals in a laboratory or veterinary setting, dog grooming, and kennel or pet shop management. Students interested in pre-veterinary medicine or veterinary science should consider this program.