

Bolivar-Richburg Central School

2026-2027

Course Catalog



A comprehensive description of all courses offered for the 2026-2027 school year.

A MESSAGE FROM THE GUIDANCE AND COUNSELING OFFICE

Dear Parents, Guardians & Students,

Bolivar-Richburg offers a wide variety of high school courses for students. This catalog can help you select the courses that best fit your future goals and aspirations. Course selections are an important task as it can impact your academic future so please take the time to read through the options available, think about and then discuss options together and make a wise decision about your schedule. It is not a time to make decision and take courses based on what your best friend is taking or time take “the easy road”. Research reveals that the best predictor of college and career readiness involves your grade point average and your “SOS”, which stands for “strength of schedule” meaning the rigor/difficulty of your coursework. We always want each student to find the best balance of challenging coursework and study time for his/her skills, interests and abilities. Currently your education is free to you! Take advantage of this time to explore electives and try out new content. Take advantage of the college and technical courses that are offered at little to no cost to you! This is a gift and will help you transition more successfully to difficult course work in your future. Your commitment, hard work and dedication will pay off down the road in your future.

Teachers, counselors and administrators are available to assist you with your course planning. Teacher recommendations can be very helpful regarding course placement. As school counselors, we meet with students individually each year to schedule you for courses and discuss your progress academically, socially/ emotionally and document your career path with a newly created document called your annual review. Parents and guardians are welcome to come in to meet with us as counselors whenever you need assistance during the course of the school year by calling, emailing or using the Remind app to set up an appointment. Our goal being to work as a team to support students, academically, with social/emotional concerns and career planning.

Yours in education,

Mrs. Hadley Hooker, School Counselor grades 6-12
(585) 928-2986 Counseling Office

NYS GRADUATION REQUIREMENTS

In order to earn a high school diploma, BRCS students must earn a minimum of 22 credits. The credits and exams required to earn a diploma are as follows:

COURSES	CREDITS	REQUIRED REGENTS EXAMS
ENGLISH	4 CREDITS	ELA (GR. 11)
SOCIAL STUDIES	4 CREDITS	GLOBAL HISTORY (GR. 10) & US HISTORY (GR. 11)
MATHEMATICS	3 CREDITS	ANY 1 MATH REGENTS EXAM
SCIENCE	3 CREDITS	ANY 1 SCIENCE REGENTS
SPANISH	1 CREDIT	
HEALTH EDUCATION	.5 CREDIT	
PHYSICAL EDUCATION	2 CREDITS	
ART OR MUSIC	1 CREDIT	
ELECTIVES	3.5 CREDITS	
TOTAL	22 CREDITS	STUDENTS MUST PASS 5 REGENTS EXAMS

*Currently, students must score at least a 65% on all five required regents exams to earn a Regents diploma. However, there is a 4+1 Pathway where either the Global or US History exam requirement may be replaced by passing 1 NYS approved alternative exam. Your counselor will review this with you if you have not yet passed your Global regents. Earning the Advanced Designation Diploma requires students to pass additional Regents exams - Living Environment, Geometry, and CC Algebra II exams. Also, students must pass the Spanish III local final exam or earn 5 credits in one of the following to replace the Spanish requirement; art, music, or BOCES to earn an Advanced Regents diploma.

<u>Diploma Type</u>	<u>Available To</u>	<u>Requirements</u>
Regents Diploma	All Students	Credits: 22 as listed above. 5 required Regents Exams with a score of 65 or better: 1 Math, 1 Science, 1 ELA, 1 Global History & 1 US History OR see above 4+1 Pathway
Regents with Advanced Designation	All Students	Credits: 22 as listed above. Electives must include 3 units of LOTE or a 5 unit sequence of the arts or CTE or Music
Local Diploma	All students via Regents Exam Appeal	Credits: 22 as listed above Assessment: 3 required Regents exams with a score of 65 or better and 2 Regents exams with a score of 60-64 for which appeals have been granted per Commissioner's Regulation 100.5(d)
Local Diploma	All students with a disability with an IEP or Section 504 Plan	Credits: 22 as listed above Assessment: Low Pass Option 55-64 or higher on all Regent exams. Scores of 45-54 in Social Studies and Science can be compensated by a score of 65 or above on another required Regents exam. Appealed exam score of 52-54 available.

NYS GRADUATION REQUIREMENTS (con't)

<u>Diploma Type</u>	<u>Available To</u>	<u>Requirements</u>
CDOS Credential	All students other than those who are assessed using the NYS Alternate Assessment	Completes a career plan; demonstrates attainment of the commencement level Career Development and Occupational Studies (CDOS) learning standards in the area of career exploration and development, integrated learning and universal foundation skills; satisfactorily completes the equivalent of 2 units of study (216 hours) in Career and Technical Education coursework and work-based learning (including at least 54 hours of work-based learning); and has at least 1 completed employability profile; OR • Student meets criteria for a national work readiness credential Note: Credential may be a supplement to a Local or Regents diploma, or, if the student is unable to meet diploma standards, the credential may be awarded as the student's exiting credential provided the student has attended school for not less than 12 years, excluding Kindergarten.
Skills and Achievement Commencement Credential (SAC)	Students with severe disabilities that are assessed using the NYSAA (Alternate Assessment)	All students with severe disabilities who attend school for not less than 12 years, excluding Kindergarten exit with this credential which must be accompanied by documentation of the student's skills and strengths and levels of independence in academic, career development and foundation skills needed for post-school living, living and working.

Academic Honors

Special Endorsements	Available To	Requirements
Honors	All students	90% or higher average of all required regents exams
Mastery in Math	All students	Earns a score of 85% or better on 3 Math Regents
Mastery in Science	All students	Earns a score of 85% or better on 3 Science Regents
Technical Endorsement	All Students	Successfully completes a Department approved CTE program including the technical assessment

ADDITIONAL POINTS FOR UPPER LEVEL COURSES

An additional five (5) points are added to Spanish II, Spanish III, Regents Geometry, Regents Algebra II, Pre-Calculus, Regents Chemistry and Physics courses. College level courses will receive an additional seven (7) points. 100% is the highest course average granted.

COURSE DROP

Students are discouraged from dropping classes. **However, in rare instances, students may complete a drop add slip with the Counseling Office during the first five weeks of school.** Students need to follow the procedure listed on the drop add sheet and parents are required to sign as well.

LATE COURSE DROP

The schedule change deadline is the end of the 5-week marking period. After that point, changes will not be honored without completion of a late drop request form. The drop request form is available from your Guidance Office. The student and their parent must first contact the teacher of the course to discuss the situation and brainstorm ways to improve. The building principal and counselor will sign off **only** after the process is completed by student, teacher and parent. At that time a drop add slip may be issued.

Art Department

Studio in Art

610

40 weeks – 1 credit

This course is organized around the study of the four main areas of Visual Art: Art Production, Art History, Art Criticism, and Art Materials and Techniques.

A broad exposure to materials and techniques coupled with in-depth experiences in the creation of works of art is emphasized. A more refined command of art criticism, along with a fuller understanding and appreciation of Art History is expected. A more mature understanding of the functions and applications of the elements and principles of art, as well as a working knowledge of the types of composition will be developed.

Advanced Art I

620

Prerequisite: Studio in Art

40 weeks - 1 credit

This course is the next step up from Studio. Mostly for sophomores, it takes the skills the student learned in Studio and builds on them.

We experience some new techniques like watercolor, charcoal, and advanced painting, learning more about the technique and how to perfect it. The student will also learn more about the art history and of the artists that excelled with the techniques that we are learning.

This class is another gauge to see if the student would like to further their art career while in high school.

Advanced Art II

630

Prerequisite: Studio in Art & Advanced Art I

40 weeks - 1 credit

Advanced Art II is the third step in the Art module. Students will again build on what they have learned in the previous two courses and expand from there.

Students will use problem solving skills and will be free to roam as far as conceptual artwork, looking deeper into personal experiences. Individuality can be expressed more readily and the instruction is not as lengthy.

This course is geared more toward juniors who are serious about their artwork and have a passion to challenge themselves.

Intro to Ceramics

639

Prerequisite: Juniors & Seniors

40 weeks – 1 credit

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

Survey of Art

640

40 weeks – 1 credit

Survey of Art is the final stage of High School based art instruction. It is mainly made up of small, senior classes that are seriously considering art to be a big part of their future. Projects become more complex and the level of commitment is higher. In survey, students develop ideas for school murals, and touch on photography/black and white developing. More time is taken to refine the individual goals of the participating students. Students are encouraged to work on portfolios if they are going to art school.

Independent Art

650

Prerequisite: Three (3) years of high school art – Seniors Only

40 weeks - 1 credit

Independent Study introduces the opportunity for the student to work in an individualized learning environment. Seniors will explore the anatomy of the human body, further their existing knowledge of design and technique, and be given the opportunity to study the history of art through research and analysis. Students will receive a notebook in which they will construct an art diary of their findings and their studies.

This class is for the advanced art student and should be seen as a bridge between high school foundational art theories and college level teachings.

Digital Media I

653

40 weeks – 1 credit

This is an independent digital media course and limited to 10 students per section. Students will be working in the Mac Mini-lab.

Digital Media II

654

40 weeks – 1 credit

This class will build on the skills and techniques learned in Digital Media I. New programs will be introduced and new ways of using the computer to create original artwork will be taught.

Creative Art Exploration

656

40 weeks - 1 credit

If you are the type of person who thinks that you are incapable of making art, then this is the course for you! In this course, students will be given the freedom to explore a variety of art mediums and techniques without limitations. Using art to express oneself through one's emotions, memories, thoughts and ideas will allow students to explore different forms of art. Each student will be given an art journal and will be expected to create on a daily basis. Art is limitless!

English Department

Yearbook Design

109

Grades 9-12

40 weeks – 1/2 credit

Students will produce a book that captures the special moments of the year's events. The book will be designed and created by students with the support of the yearbook teacher/advisors. Students will demonstrate the use of online design tools (Josten's Yearbook Avenue) and elements of design to create a cohesive book that is school and year specific. Students will work collaboratively to work on assigned tasks such as taking photographs, writing copy, designing pages and meeting deadlines.

English 9

110

40 weeks – 1 credit

This course allows students to continue to master the NYS ELA Learning Standards in preparation for the Regents Exam in English. In addition, students complete book reports, and read independently selected books from a provided reading list.

Research skills are developed with the writing of a major paper on mythology. Students continue their study of literary elements while reading the works of Shakespeare, including *Romeo and Juliet*. Writing skills are further developed to reflect more mature writing styles and synthesis of ideas.

English 10

120

40 weeks – 1 credit

This course is designed to help students prepare for the English Regents exam, which they must take at the end of their junior year. A major focus throughout the year will be on writing. In addition, we will be reading short stories, poetry, essays, articles and novels. Through our analysis of literature, we focus extensively on literary elements and techniques.

English 11

130

Regents exam required

40 weeks – 1 credit

In this class, students will read and analyze American literature from the early days of the colonies to the present. Emphasis will also be placed on developing writing and other twenty-first century skills necessary to be successful in the college and the workplace. Speaking and listening skills will be strengthened through class discussions, group work and presentations. Students will write in several modes, including narrative, expository, argument and research. Reading selections will come from a variety of genre including essay, poetry, speeches, short stories, novels, drama. A particular focus will be placed on reading and comprehending dense nonfiction text. All students will be required to pass the Regents Examination in English Language Arts in June.

College English Comp. I 1510 (Seniors)

131

20 weeks Fall Semester

3 JCC credits

Placement test with an Accuplacer Next Gen and a reading

Score of 250+ or 80% GPA. English Regents and JCC final exam in June.

Juniors Must take English 11 Regents

This course will allow students to stretch their knowledge of all aspects of English language arts. Students will be concurrently enrolled in English 11 for high school credit and English Composition I 1510 for college credit through Jamestown Community College. Students in this section will be expected to take a more independent role in their learning as the class reads and analyzes a wide selection of American literature. An important component will be class discussion of the literature read and the ideas presented. In addition, students will develop skills in critical reading, rhetorical analysis, and argument. Students will read rhetorically and critically, and will analyze a variety of texts on current, inter-disciplinary topics. The course focuses on writing for specific audiences and purposes with an emphasis on academic composing. As such, students will develop skills that prepare them for academic and professional writing as they practice recursive writing processes and learn to enter conversations through informed and effective academic expression.

College English Composition II 1530 Seniors)

151

20 weeks Spring Semester

3 JCC credits

Prerequisite: Successful completion of ENG 1510 or a minimum

Accuplacer writing score of 7-8 and reading score of 80.

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.

English 12

140

40 weeks – 1 credit

This course approaches literature thematically. Students read a drama (*Macbeth*), novels (*To Kill a Mockingbird*, *Lord of the Flies*, and *Flowers for Algernon*), poems, stories, speeches, and essays written by authors from around the world. Vocabulary is studied regularly; projects and responsive writing are integral to the course.

Whenever possible, the studying of literature is correlated with the studying of Psychology, World History, and American History. Students practice public speaking skills and utilize technology by giving oral presentations and writing a lengthy research paper.

College Public Speaking

CMM 1610

Grades 11 or 12

20 weeks Fall ½ credit

Successful completion of English 1510

3 JCC Credits

Must meet minimum college level reading score: Accuplacer Next Gen 250+ or 80%+ GPA

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. Technology will be used throughout the course from researching to writing to analyzing the students' own work and work of others.

Mystery, Murder and Mayhem

136

Grades 9-12

40 weeks – 1 credit

This course is a survey of literature exploring the criminal mind, the goals/methods of detectives, and society's response to criminal act. It will include an exploration of the narratives of justice (who is privileged to tell the stories of the voiceless) and an examination of both fiction and non-fiction crime/detective narratives focusing on causes of crime, the motivations of criminals, rationales for punishment(s), desire for redemption, aftermath/trauma, perspectives of the victim's families, etc. Take a dive into our society's obsession with true crime, the role of public opinion/pop culture when it comes to solving cases/delivering justice.

True Crime

138

Grades 9-12

40 weeks – 1 credit

Prerequisite: Successful completion of Mystery, Murder and Mayhem

This class will explore the cultural phenomenon of true crime and society's fascination with crime and murder. Throughout the course we will explore the genre of true crime, the history and origins, and how it has evolved over the centuries. We'll examine and engage with true crime's many forms, from podcasts like *Serial* to docuseries like *I'll be Gone in the Dark* to famous true crime novels such as Truman Capote's *In Cold Blood*. We will delve into the world of true crime fan communities to the "citizen detective" solving real life murder mysteries and discuss important issues such as race, gender, and socioeconomic status that impact true crime narratives and media representation.

History Department

Global History I

210

40 weeks – 1 credit

The purpose of this course is to introduce students to the study of pre-history through the European Renaissance. The course comprises of lecture notes, group activities, current events, and learning how to write both a thematic and document-based question essay. Some topics of study include the Greeks, Romans, Middle East, Aztecs, and all five major world religions. This is the first year of preparation for the Global History regents which is taken in June of the tenth-grade year.

Global History II

220

Regents exam required in June

40 weeks – 1 credit

The purpose of this course is to introduce students to the study of global history from 1450 to the present while building upon the instruction and knowledge gained in Global History I.

This course is comprised of lecture notes, collaborative activities and practicing how to write a thematic and document-based essay. Some topics of study include the Age of Exploration, Revolutions (French, Russian & Chinese), the World Wars and the Cold War and fall of the Soviet Union. the Global History regents is taken in June of the tenth-grade year.

US History & Government

230

Regents exam required in June

40 weeks – 1 credit

This course covers the American story from colonial times through the present. The major focus of the course centers around the political, social, economic and cultural development of the United States since the Civil War. Additionally, we focus on the formation and workings of the US government and its implications for our democracy. This course builds upon what you learned in 7th and 8th grade history. Additionally, we focus heavily on the analysis of primary source documents and the characteristics of good writing. ***All students must take and earn a passing score on the U.S. History and Government Regents Examination in June.***

Participation in Government & Economics

240

Required for all Seniors

40 weeks – 1 credit

Economics will cover the following fundamental economic concepts: scarcity and choice, opportunity cost and trade-offs, productivity, economic systems, economic institutions and incentives, exchange, money, and interdependence; microeconomic concepts including markets and prices, supply and demand, competition and market structure, income distribution, market failures, the role of government; macroeconomic concepts including gross domestic product, aggregate demand and aggregate supply, unemployment, inflation and deflation, monetary policy, and fiscal policy; and international economic concepts including absolute and comparative advantage and barriers to trade, exchange rates and the balance of payments, international aspects of growth and stability.

Government will cover the following topics: civic life, politics and government including basic definition and purpose, characteristics of limited and unlimited government, nature and purposes of constitutions, and alternative ways of organizing constitutional governments; foundations of the American political system including American concept of constitutional government, distinctive characteristics of American society, American popular culture and values and principles basic to democracy in America; American purposes, values, principles embodied by the constitution including distribution of power and responsibility, organization of the national government, organization of state and local governments, the role played by law in the American system and choice, opportunity and participation in government; and the role of the American citizen in the government and society including definition of citizenship, rights and responsibilities of citizens, dispositions/traits of private and public character and the importance of preservation of democracy and active participation in American civic life.

College Intro to Psychology (on-line synchronous)

JCP

*½ credit
3 JCC Credits*

Students will demonstrate an understanding of theories and research as they apply to fundamental concepts in psychology. As they complete readings and activities on the history of psychology, models of learning, biology and behavior, personality theory, psychological disorders social psychology and other selected topics students will apply their knowledge to better understand the causes of thought, feeling, and behavior. They will be able to comprehend and apply the methods of scientific psychology.

Eligibility: ENG 1510 without supports or Corequisite: ENG 1510 with supports - Jrs. Srs. 80 GPA or Accuplacer 250 on Reading Comp subtest.

World Languages

Spanish I 510

40 weeks – 1 credit

This course offers foundational understanding of Spanish, both in grammar and vocabulary, and promotes appreciation for the people and culture of the Spanish-speaking world. The course includes research and some hands-on activities.

Spanish II 520

Prerequisite: Spanish I

40 weeks – 1 credit

This course helps the student build upon skills learned in Spanish I. Spanish II provides increasingly sophisticated tools for communicating in Spanish. Students learn to communicate using the past tense, commands, reflexive verbs, and object pronouns. In addition, they learn how to talk about topics such as childhood memories, family celebrations, shopping and bargaining, learning to drive, and daily routines. Emphasis is placed on practicing speaking skills in class while daily homework reinforces reading and writing skills.

Spanish III 530

Teacher recommendation

40 weeks – 1 credit

Local assessment required in June.

3 College Credits from Alfred State College

Honors Spanish 3 is a continuation of Spanish 1 and Spanish 2. Emphasis will be on speaking and writing skills on a variety of topics. Students will take a local exam at the end of the year which will count toward the Advanced Regents Diploma designation. If the student earns at least a C, they will also earn 3 college credits from Alfred State College in completion of the requirements for SPAN 1203 (College Spanish 1203).

College Spanish I* 560

Prerequisites: 3 years of High School Spanish

20 Weeks ½ credit

Credits: 3 Alfred State Coll

This course focuses on developing the student's ability to speak, to write, and to read Spanish. Additional emphasis is given to learning about the diverse cultures of the Spanish-speaking world. Instruction centers on oral communication, grammar (especially formation of verbs), and cultural awareness. Writing is continued in assignments related to readings, class discussions, and lectures.

College Spanish II 561

Pre-requisite: SPAN 1203 with D or better

20 weeks ½ credit

Credits: 3 ASC

This second semester course is designed to suit the needs of persons who wish to learn to communicate orally in the Spanish language for purposes of travel, business, personal pleasure, and academia environment. The student's listening, speaking, reading and writing skills in Spanish will be further developed.

Hispanic Cultural Fusion

562

Prerequisite: Spanish I

40 weeks – 1 credit

Grades 10-12

Students will be exposed to various elements of Hispanic culture. For example, topics will include: art, music, architecture, literature, festivals/holidays, food, films and tv, theater, technology, geography/environment and the Hispanic influence in the United States. Activities will include project-based assignments, class discussions, culture simulations, experiential tasks, virtual field trips, and guest speakers. Minimal Spanish language will be used and Spanish 1 prerequisite is needed to take this course. This curriculum will overlap with many other courses such as Global History, Science, Music, Art, Gourmet cooking and Language. Students who decide to take this course will be eligible for the Costa Rica Study Abroad Program.

Math Department

Algebra I

310C

(Algebra I Regents exam in June is required)

40 weeks – 1 credit

This course is a first year high school math class. Some of the mathematical topics that will be covered in this course include: linear equations of one variable, quadratic functions with integral coefficients and roots as well as absolute value and exponential functions. Coordinate geometry will be integrated into the above mathematical functions so that students draw connections between analytical and geometrical representations.

Measurement topics include: calculating rates, measurement system conversions, central tendency, visual representations of data, and an understanding correlation and causation. Elementary probability and right triangle trigonometry will also be covered.

Algebra IA

311C

40 weeks – 1 credit

Algebra IA will cover the same topics as Algebra I, but the material will be presented over a two-year period in two connected courses, Algebra IA for 9th grade and Algebra IB for 10th grade.

Geometry

320C

Prerequisite: Pass either Algebra I or Algebra IA & IB

40 weeks – 1 credit

This course is intended to be the second course or level of high school mathematics. The purpose of this course is for students to gain an understanding of reasoning and proofs in mathematics. The following topics will be covered: synthetic, transformational and coordinate approaches to geometry will be integrated, congruence and similarity of triangles through the use of theorems, transformations including rotations, reflections, translations and glide reflections. The properties of triangles, quadrilaterals, and circles may receive extra emphasis. Compass, straightedge and computer software will be tools used in this course. *(Regents exam in June required.)*

Algebra IB

321C

Prerequisite: Pass Algebra IA

40 weeks – 1 credit

Algebra IB will continue to cover the topics listed under the Algebra I course description. Algebra IB allows the student more time to absorb the topics covered and more time to prepare for the Algebra I Regents exam. *(Regents exam in June is required.)*

Algebra II

330C

*Prerequisite: Algebra I & Geometry
Algebra II exam in June required*

40 weeks – 1 credit

This course is intended to complete the third required math course for students attempting to earn an Advanced Regents diploma. This course is a continuation and extension of the two courses that precede it, Algebra and Geometry.

Topics covered in this course include: advanced algebraic techniques, alternative solution strategies and algorithms, imaginary and complex numbers, polynomials, absolute value, radical, trigonometric, exponential, and logarithm functions, problems of direct and indirect variation, graphing and algebraic solutions, rewriting of mathematical expressions into multiple equivalent forms, measures of dispersion and the analysis of regression, correlation coefficients, binomial experiments, probability theory, and expanded right triangle trigonometry.

College Problem Solving with Mathematics* MAT 1500

351

*Prerequisite: Math score of 250+ on Accuplacer Next Gen Reading
Accuplacer Next Gen Math score of 246 +
3 JCC credits*

20 weeks – ½ credit

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

College Elementary Statistics – MAT 1540

353

*Prerequisite: Math score of 255+ on Accuplacer Next Gen
Algebra, Geometry, & Trigonometry*

*Fall 20 weeks – ½ credit
3 JCC credits*

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. A significant part of the course is taught in a laboratory setting using a software package such as Minitab.

College Trigonometry * MAT 1590

330 COL

Prerequisite: Accuplacer Next Gen score of 255 +

*20 weeks ½ credit
3 JCC credits*

Students will learn algebra and trigonometry topics necessary to prepare them for the study of pre-calculus. 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. An approved graphing calculator is required. Eligibility: Accuplacer college-level math sub-test score of 255+ on the Math Quantitative sub-test for all students including top 10%.

College Pre-Calculus - MAT 1600

341 COL

Prerequisite: MAT 1590 placement exam

½ credit

4 credit hours

Students will learn topics necessary for studying calculus and discrete mathematics. Algebra topics include rational and polynomial functions. Trigonometry topics include graphs, identities, half and double-angle formulas, and inverse trig functions. Other topics include exponential and logarithmic functions, and introduction to limits. An approved graphing calculator is required.

and procedures for finding areas and volumes. The students can take the AP-AB Calculus exam in the beginning of May and if they score at least a 3 on it, typically they will get college credit. Following the test, we look at some topics that are covered for the AP-BC version of the exam, which usually amounts to the beginnings of second semester college courses. *Students may opt to take the CLEP exam in Pre-Calculus to attempt to earn college credits.*

Required is use of a graphing calculator (TI-83 or higher). A list of other approved calculators is available at the AP College Board website: <http://www.collegeboard.com>. *(Students may receive college credit for this course depending on their AP exam score and each college's policy.)*

Music Department

Chorus/Chorus

820 & 821

40 weeks - ½ to 1 credit

Chorus is a performing ensemble that sings a wide variety of literature, ranging from traditional favorites to classical and contemporary music. Chorus meets every day for a full credit; students taking band or orchestra will meet every other day and receive a half credit. Students in Chorus will be required to participate in at least two school-sponsored public performances. These performances are mandatory and part of the grade earned in this course. 820 meets every day for 1 credit 821 meets every other day and is 0.5 credit. Students attend band or orchestra on the alternate day.

Honors Jazz Band Ensemble

837

Grades 7-12 by audition

40 weeks ½ credit

Pre-requisite: Previous year NYSSMA solofest scores need to be at least a level 2-26+

This class will serve as an introduction the rich history of jazz music which is considered “America’s Classical Music”. Through ensemble rehearsal, individual practice, and a variety of performance opportunities the student will gain an understanding and appreciation for this great art form. Emphasis will be placed on not just performance technique, but also on rudimentary improvisational skills, musicianship, learning to collaborate and collectively produce a solid team performance. They will perform a variety of styles of jazz music from various eras. Music performed ranges from 1930’s and 40’s big band jazz to contemporary jazz video game music jazz arrangements, Latin jazz and jazz-rock. The performances of these ensembles include school concerts, coffee houses, community events and jazz festivals (Darien Lake).

Concert Band/Concert Band/Orchestra

838 & 838F

Prerequisite: Previous year in ensemble; instrumental lessons

Concert band meets every other day for ½ credit

and/or audition, as well as consent of the Director prior to

Concert Band meets every day for 1 credit

being registered for Sr Band

Full Credit

Concert Band is a performance-based ensemble that plays a wide variety of pieces, ranging from classical and traditional to contemporary literature. Students develop performance technique, study chamber music and solo literature. This ensemble travels to compete in NYSSMA Majors Organization performances as well as various community events and local festivals. Middle School Band (Grades 6-8 and/or permission of instructor).

Weekly lessons are a required part of these courses. Senior Orchestra meets every day for a full credit. Students who wish to also perform in Chorus will meet every other day and receive a ½ credit.

Students in any of the above performing ensembles will be required to participate in at least two school-sponsored public performances. These performances are mandatory and part of the grade earned in these courses.

Modern Band

898

Grades 9-12 or younger by permission of instructor

40 weeks – 1 credit

***Prerequisites** : One year of prior experience in music production, band and/or choir is required; two years of experience in band and/or choir is strongly preferred, and/or audition, as well as consent from the Director."*

Modern Band is an applied performance ensemble focused on music within the rock and roll genre and its derivatives. The course examines rock and roll's historical influences, structural form, as well as the diverse stylistic developments that emerged during the latter half of the twentieth century and into contemporary pop music culture.

Participants are expected to demonstrate proficiency in rudimentary music theory and sight-reading. Vocal participation is integral, requiring both a willingness and capability to sing. In addition, students must exhibit competent performance skills on an instrument appropriate to the genre (e.g., guitar, bass, drums, keyboards, or related instruments).

College Music Theory

896

Grades 9-12 or younger by permission of instructor

40 weeks – 1 credit

Alternating years with Music History

This course focuses on music notation, scales, modes, keys, intervals, simple chord progressions, elementary sight singing, and elementary keyboard accompaniment using primary chords.

College Music History

895

Grades 9-12 or younger by permission of instructor

40 weeks – 1 credit

Alternating years with Music Theory

Physical Education Department

High School Physical Education

850

Required for all NYS High School Students

40 weeks – ½ credit

This course emphasizes an introduction to a program of structured fitness related to individual and team-centered activities. These units are designed to maintain one's physical conditioning through the use of lifetime team sports and individual activities by actively participating in daily activities. Many of the games spawn from a non-traditional curriculum and have varying cultural influences from around the globe.

Students will also spend time in the classroom, where healthy fitness topics will be discussed and how these concepts should be applied in building a healthy lifestyle. Students will participate in two FitnessGram Physical Fitness Units and are expected to meet minimum National Standards for those tests.

Health Education

750

NYS requirement for all high school students

*40 weeks – every other day
½ credit*

This course is designed to assist students in obtaining accurate information, developing lifelong positive attitudes and behaviors, and making wise decisions related to their personal health. Study will include personal and community health; mental, emotional, and social health; injury prevention and safety; nutrition and physical activity; alcohol, tobacco, and other drugs; growth, development, parenting and sexual health. Central themes are the acceptance of personal responsibility for lifelong health, respect for and promotion of the health of others, an understanding of the process of growth and development, and informed use of health-related information, products, and services.

Science Department

Earth Space Science & Lab

410 & 491

40 weeks – 1 credit

This course involves the overlap of the following scientific branches: geology (solid Earth), astronomy (universe), meteorology (weather and climate), oceanography and environmental science. Specific studies include minerals, rocks, weathering, erosion, interpreting Earth's history, atmosphere properties, weather systems, water cycle, plants, Earth's position in space, origins and environmental awareness (Regents exam is required).

Biology & Lab

420 & 492

Regents exam is required

40 weeks – 1 credit

This course describes the living part of the planet, from plants to animals to the microscopic world. Topics include genetics, ecology, respiration and photosynthesis, human systems, reproduction and development, evolution, and classification. Grading is based on Regents style quizzes and tests, projects, activities and textbook questions, all of which reflect contemporary biological issues. There is a lab requirement for this course.

Sustainable Living and Agriculture I & II

421&422

Prerequisite: Juniors & Seniors

40 weeks – 1 credit

This survey-style class gives an overview of many different aspects of agriculture throughout the region. Projects and mini-quizzes are used for evaluation. Much of the class focuses on hands-on and outside activities, with the major project being the WEE Center garden. Topics may include livestock, maple syrup, vegetables and fruit, agricultural careers, food production and preservation, and the connections between people and their food supply.

Chemistry & Lab

430&493

Regents Exam is required

40 weeks 1 credit

This course allows students to study the following topics in Regents Chemistry through labs, classroom demonstrations, and many hands-on activities: units and measurement, matter and energy, gas laws, atomic structure, periodic table, chemical bonding, stoichiometry, molecular structure, moles, solubility, kinetics and equilibrium, chemical reactions, acids and bases, redox reactions, organic chemistry and nuclear chemistry. Assessments include daily homework assignments, quizzes, unit tests, and quarterly tests.

The course includes a lab portion, which must be completed for all students to qualify for the Regents Exam. All labs directly correspond to the material covered in class. Students are required to keep their own lab books throughout the year and hand them in completed at year-end. Students who do not meet this New York State requirement will not be able to take the Regents Exam and will receive a zero for the exam.

Physics & Lab

440 & 494

Regents exam is required

40 weeks – 1 credit

This course is a branch of the physical sciences. In Physics we study the nature of basic things such as motion, forces, energy, light and sound. The course includes a lab portion, which must be completed for all students to qualify for the Regent's Exam. During lab we utilize various forms of technology including air tracks and probes. Assessment in Physics class includes daily homework assignments, quizzes, unit tests, and quarterly tests.

In Physics we study the following units: Kinematics (motion), projectiles/centripetal force, forces, momentum, work/energy, magnetism and static electricity, current electricity, waves, modern physics.

College The Science of Natural Disasters 1015 (Seniors)

40 weeks – 1 credit

SUNY Oneonta – 4 credits

This course provides an overview of natural disasters, such as earthquakes, volcanic eruptions, floods, tsunamis, mass movement, meteorite impact and severe weather (including hurricanes and longer-term climate change). Students will learn about the geological and meteorological processes responsible for producing these disasters through the use of various national and international data sources, as well as local and national case studies. Laboratories will provide experience in the application of the scientific method. In addition, this course will demonstrate how science can influence personal, societal, and governmental decisions.

College Human Biology 1500

420C

Prerequisite: Chemistry and English 1510

40 weeks – 1 credit

JCC 4 Credits

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.

Driver's Education Course

Driver Education

844

Prerequisite: Seniors & Juniors, with License or Learner Permit

Fee is required

This course will allow students to learn about traffic systems and vehicle readiness. The students will also learn about occupant protection. The importance of traffic laws and regulations will also be expressed along with highway systems. Students must be 16 years old and hold a valid learner's permit or license. Classes are currently offered through BOCES using an on-line platform. Parents and guardians are responsible for logging driving hours and skills that were observed during those hours. Information with details when the courses are offered will be sent out to parents, guardians and students when it becomes available.

High school course credit is no longer granted for this course

Technology Department

Design and Drawing for Production (DDP)

731

40 weeks – 1 credit

DDP at BRCS is designed to introduce students to beginning engineering design and the use of drawing and illustration as a means of communication. Students in grades nine through twelve will learn basic drafting skills and will apply math skills and science concepts as they design, build and test a variety of models. This course meets the fine art credit required to graduate.

Systems Technology

730

40 weeks – 1 credit

This course will allow students to investigate systems used to process materials in a laboratory setting. The importance of resources, materials, where they are found, tools and equipment used, technical knowledge involved and safety considerations will be covered in the course. Hands-on activities include: 1. Joining/fastening materials: adhesives to welding, 2. Process methods: shearing, clip removal, casting and compressing and stretching. This course counts as a MST (Math, Science, and Technology) course and can be used as a third credit of Math or Science.

Career and Technical Education (BOCES)

Students are required to take 2 years of Technical Math and Technical Science for each BOCES course, and receive a ½ credit per course per year.

Animal Science I & II (2 credits per year) 924 & 925

This is an exciting new program for students who enjoy science and are interested in learning more about career opportunities working with animals. Students should plan on continuing their education to at least 2 or 4-year college.

Major topics of study are: animal reproduction and genetics, animal first aid, health and disease control, nutrition, grooming, business and facility management and clinical skills.

Student candidates should: be up-to-date with their math and science sequences, should have passed their science courses with strong marks, and have the academic skills to pursue at least a 2-year college degree.

Auto Technology I & II (2 credits per year) 928 & 929

From computerized diagnostics to in-chassis repair, this program covers it all! In two years, Auto Technology will take you from engine theory to customer relations to the use of specialized tools and equipment. Many graduates continue on to post-graduate training ranging from 10-month certificate programs, to two- and four-year college degrees in specialized automotive training programs which qualify them for more advanced jobs.

Major topics of study are: brake systems, chassis system, chassis electrical systems, engine trouble shooting and rebuilding, engine electrical systems, fuel, ignition and emissions systems, power train, and preventative maintenance

Carpentry & Construction Trades I & II (2 credits per year) 930 & 931

Have you always had a fascination with construction sites? Do you have an interest in how buildings go together, electrical wiring, masonry or fine carpentry? Then the Building Technology program is for you! You will learn the skills necessary to: construct foundations, build rough framing, install insulation, finish interiors, and create fine cabinet work, as well as install residential plumbing and electrical systems.

Major topics of study are: applied mathematics, air conditioning, basic electricity, basic plumbing, cabinet making, finish flooring, exterior finishing/siding, insulation, heating and ventilation systems, painting and decorating, interior trim, stair construction, roofing, blue print reading/interpretation, basic masonry and framing.

Collision Repair Technology I & II (2 credits per year) 926 & 927

If sharp image, eye-catching paint, fine detailing and auto body customizing are areas of interest for you, consider Auto Body Technology as a career choice. The Collision Repair, formerly called Auto Body Repair,

program will hone your skills in the repair and customizing of the auto body frame. You will learn techniques of complete auto collision repair while working on damaged vehicles. The Collision Repair shops are all state-of-the-art using the latest paint systems and body repair techniques.

Major topics of study are: crash estimating, fiberglass repair, glass removal and installation, paint mixing, refinishing and spray painting, sandblasting, auto marketing skills, collision repair, frame and uni-body straightening, MIG welding, plasma cutting, plastic repair, rust repair and auto detailing.

Cosmetology I & II (2 credits per year)

940 & 941

Trends in an appearance-conscious society have led to continuing changes in hair and makeup styles. The field of Cosmetology is for those who enjoy working on a personal level with people. They must also have: good hand-eye coordination and finger dexterity; a sense of form, color and artistry; the ability to follow directions; strong study and reading skills; and a sense of responsibility and patience. The Cosmetology program offers students the unique opportunity to develop and practice their skills during a regular weekly clinic, where the public is invited to make appointments for beauty services.

To be eligible to take the cosmetology licensing exam, a student must have 1,000 hours of classroom instruction. *Students are required to participate in the Cosmetology summer session/internship.*

Major topics of study are: salon and business management, facials, massage and makeup, hair analysis, hair coloring, haircutting and styling, hair straightening, permanent waving, manicuring, scalp and hair treatment, pedicure, wig preparation, sanitation and sterilization, shampoo and rinse.

Criminal Justice I & II (2 credits per year)

942 & 943

Interested in police work, covert operations, law security or corrections? Then a program in Criminal Justice is just right for you!

The Criminal Justice program will provide you with a foundation in law enforcement, judicial process and corrections. You will have an opportunity to gain in-depth experience in all aspects of the Criminal Justice field. The program will also include the study of all aspects of the security field, including the basic security skills and techniques used in both the public and private sectors of the security industry. The majority of careers within the criminal justice fields require additional study at the post-graduate level. However, students who participate in this program will be able to obtain the required certification to become a security officer in New York State.

Major topics of study are: public, private, building, and personnel security; physical and electronic security systems; crime prevention; public relations; use of force, firearms; investigation techniques; the constitutional law; first aid and CPR; procedural operations; tactics; and crime scene operations.

Culinary Arts I & II (2 credits per year)

944 & 945

From the preparation of American to Vietnamese cuisine, to baking, table serving and restaurant management, Culinary Arts has it all! You will get firsthand opportunities to test your skills in an internship program at local businesses. You will prepare and serve meals to various community and private groups throughout the year, simulating a real restaurant situation.

Major topics of study are: baking and ingredients use, food preparation, dining room service, food service sanitation, catering, menu preparation, meat cutting, inventory and portion control, restaurant management and nutrition.

Early Childhood Education I & II (2 credits per year)

946 & 947

Here you will learn about the characteristics, needs and behavior of young children. After learning basic skills, students operate a nursery school for practical experience. Acting as nursery school workers, you will prepare, plan and execute the daily nursery school program. Internships may be available at other facilities in order to explore other careers, such as: nannies; home-car operators; teacher aides; and aids for the developmentally disabled, for the elderly, and for those with dietary or physical therapy needs. There is a growing need for workers in the human services areas. Increased need for preschool education, day-care programs, and human services programs create a demand for jobs in this field.

Major topics of study are: creating visuals and audiovisuals, health and safety procedures, job application procedures – portfolio, maintaining a safe environment, managing personnel and community resources, observation and reporting techniques, physical fitness and nutrition, developmental theories, child development, tutoring and teaching techniques.

Early Entry CTE I (3 credits per year)

932

This class is by counselor/principal recommendation ONLY.

3 credits 1 Math, .5 Health, 1.5 Elective

Early Entry CTE is designed to meet the educational needs of students by providing real-life learning experiences combined with job skill development. This program provides students the opportunity to develop the skills and work habits they will need to succeed in work and life after high school.

Early Entry CTE supports the needs of students who are having difficulty connecting traditional academic instruction to practical application and process. Content is structured around CTE skills and activities, which are used to teach and reinforce CDOS and academic skills, including ELA, Math, Science, and Technology. Students are prepared for entry into an approved CTE program or an entry level position in the workforce with fundamental job skills, knowledge and attitudes.

Classes meet daily, Monday through Friday – Session 1 (8:30 – 11:10 AM) or Session 2 (11:45 AM to 2:15 PM).

Class time is comprised of lecture, demonstration, guided practice, work-based learning projects, internships, etc. and integrated academic.

Topics covered are:

- | | |
|---|---|
| ➤ Life Skills | ➤ Economics |
| ➤ Introduction to Welding and Metal Fabrication | ➤ Buildings and Grounds Maintenance |
| ➤ Program Orientation | ➤ Office/Clerical Assistant. Computer Office Skills |
| ➤ Safety | ➤ Automotive Trades |
| ➤ Exploring the Careers | ➤ Carpentry and Construction Trades |

Heavy Equipment Operations I & II (2 credits per year)

979 & 980

Heavy Equipment Operations will prepare students to operate a variety of equipment under the guidance of an experienced instructor. This two-year program will follow the NCCER (National Center for Construction Education and Research) curriculum as well as locally developed enhancements. The program provides instruction on the operation, general maintenance, and safety specific to the heavy equipment operations field. The two-year course will allow students to earn OSHA certifications as well as a NYSED technical endorsement. Students will experience lab time of approximately 1.5 hours per day. During lab time, students are engaged in hands-on learning activities with various forms of heavy equipment.

Media Communications I & II (2 credits per year)

952 & 953

Much of the instruction involves the use of state-of-industry computers to record and edit images, produce layouts, and communicate with others locally or on the World Wide Web. Using appropriate technology and software, students learn to plan and produce advertising and page layouts, create original illustrations, modify and edit photos and other images, and actually publish them.

Major topics of study include advertising design, corporate design, web design, information design, typography, animation, painting, drawing, sculpture, photography, and video game design. Students may earn three (3) college credits in Web Design and also may sit for the Adobe Certification exam.

Medical Assisting I & II (2 credits per year)

954 & 955

One of the fastest-growing occupations in the health care field is the medical assistant. Employment opportunities are varied and available wherever health care delivery systems are found. After completing the program, students will be prepared to work as an assistant in a physician or dentist's office, a hospital or clinic, a medical facility business office or a community agency. First year instructional areas include medical reception/transcriptional skills (including telephone communication/appointment scheduling), medical records management, medical terminology, keyboarding and transcription, insurance processing, introduction to health occupations, and communications skills. The second year of the program enables students to participate in field experience rotations in various offices and health care agencies. Instruction modules include: word processing, billing, accounting, office management, advanced medical transcription and employability skills. The allied health career offers a diversity of work schedules, allowing individuals to advance via further education. Since the demand is national, these graduates are highly mobile.

Major topics of study are: anatomy and physiology, medical terminology, insurance form completion, medical transcription, first aid and CPR, clinical procedures and coding9

Natural Resources I & II (2 credits per year)

956 & 957

Requires Entrance Questionnaire

Natural Resources are the building blocks of society. Water, soil, wood and wildlife are the raw materials that we rely on throughout our lives. The Natural Resources program is concerned with the management and conservation of these natural resources.

Students should be able to perform manual labor with hand tools and heavy equipment. Most fieldwork is outdoors so the student should be willing and able to spend extended periods outside and dress for the weather. Natural Resource students work with dangerous equipment in an open environment and must exercise caution and responsibility. The program will introduce students to the fields of forestry, environmental science, surveying and heavy equipment operation. The program will also prepare students for college or employment in related fields and develop a safe and cooperative work ethic.

New Visions – Health Professions (4 credits)

948

Prerequisite: Seniors only: Seniors only by application

14 possible college credits

New Vision is an innovative and exciting elective for high school seniors who plan to attend college and major in a health-related field. Students learn the theory component of: anatomy and physiology, health care occupations, medical terminology, as well as select diseases. Taught at the college level, New Vision is offered on-site at Olean General Hospital and Olean community OR on-site at Jones Memorial Hospital and throughout the Wellsville community. Students will combine classroom instruction with observational clinical experiences in, but not limited to: cardiac rehabilitation, dentistry, dialysis, emergency department, intensive care unit, obstetrics, operating room, patient care units, pharmacy, sterile processing, along with other areas. Students entering this program should have completed three years of math and science (including chemistry), and demonstrated competence in all academic areas. Student evaluation consists of summative examinations, research projects, individual and group projects, oral presentations, portfolio, journal, and evaluation by professionals in the hospital and community.

New Visions – Educational Careers (4 credits)

950NV

A one-year, *senior level*, highly academic program that allows students to explore the education field while gaining high school and college credits. The program provides students the opportunity to learn education terminology, technology, structure, mandates, and services. Students will participate in rotations in a variety of educational settings which including, elementary, middle, and high school, as well as specialty areas such as special education, music, art, occupational therapy, physical therapy, speech, counseling and administration.

Students will learn the roles and expectations of an educational professional in New York State. They will participate in mandated teacher training including mandated reporter, Dignity for All Students (DASA), health & safety, and Annual Professional Performance Review (APPR). Students will also be able to develop into informed citizens through course work in Economics and Participation in Government.

Technical ELA I & II (133 & 143)* - Technical Math I & II (332 & 342)* - Technical Science I & II (432 & 442)* - ½ credit awarded for each class per year

Students learn, reinforce and apply academic skills such as ELA, Math, and Science in the context of their CTE program while they prepare for further study at the post-secondary level or direct entry into the workforce after high School. Applied academics, including Science Applications for Business and Industry, Math Applications for Business and Industry and Composition and Communication are essential components of each approved CTE program, and .5 credit is given for each and satisfies the graduation requirement for the third units of each.

Welding I & II (2 credits per year)

962 & 963

Requires Entrance Questionnaire

The Welding/Metal Fabrication program offers training in a variety of skill areas. A student who graduates from this program will have a broad base of skills related to the metalworking, manufacturing and construction industries. The student will learn specific skills in all the welding processes with the latest technology. They also will gain skills in the areas of: layout and fabrication, basic machining, basic CAD, technical writing and communication, technical mathematics, and job seeking and retention.

Major topics of study are: basic machine tool skills, basic pipe welding, fabrication/layout/fitting techniques, CAD, Gas Metal Arc Welding (GMAW), Flux Core Arc Welding (FCAW), Plasma Arc Cutting (PAC), Gas Tungsten Arc Welding (GTAW), Shielded Metal Arc Welding (SMAW), precision measurement, oxy acetylene cutting/welding, air arc gouging. *There is an application that must be completed to apply for this course.*

CAD and Manufacturing (seniors only)

981

CAD and Manufacturing will be offered to students who, after taking one year of Welding and Manufacturing Technologies, want a deeper dive into the world of CAD, machining, and manufacturing.

Agriculture and Land Management I & II (2 credits per year) Olean center 982 & 983

This program offers high school students a unique opportunity to explore both traditional agriculture—like soil cultivation, crop production and land management—and modern innovations such as aquaponics and sustainable practices. Students will gain hands-on experience operating heavy equipment used in land preparation and farm maintenance, learning safety and technical skills essential for today's agricultural careers.

On-line Courses through CA BOCES

Online courses through CA BOCES may be offered to students with unusual course requests if a course is not offered in house. For example: German I, Computer Science, Vet Tech.