

JCB



Course Catalog

2018-2019



Phoenix Central School District



116 Volney Street
Phoenix, NY 13135

www.phoenixcsd.org

A Message from the Student Services Department

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This course description listing is designed to provide students and their families with the necessary information to put together a well-rounded learning experience at JCB High School. We encourage students to carefully consider a variety of educational opportunities. Ultimately, we want students to attain the knowledge and skills necessary to succeed in life. It is hoped that your experiences at JCB High School will stimulate personal growth, and a better understanding of how to become a contributing member of society.

Students are encouraged to assess their strengths and weaknesses in the classroom. We want students to select coursework that will challenge and engage their minds. Education is a collaborative venture; by working collectively, students, parents/guardians, counselors, teachers and administrators can help foster a sound learning experience. We welcome input from home. Call us at 695-1645 and we'll work together to plan a solid educational foundation for your son/daughter.

Please pay particular attention to the New York State graduation requirements, as they are defined in the guide. There are specific tasks that must be accomplished in order to successfully earn a high school diploma. Again, education is a shared responsibility, so let's work together to assure a meaningful educational experience.



Alanna Woody

*School
Psychologist*



Anne Marie Muller

Social Worker



Paul Hurlbutt

Counselor



Nora Germain

Counselor



Sue Raymond

Secretary



Main Office: 695.1631

Student Services: 695.1645

Psychologist: 695.1619

Nurse: 695.1634

Special Ed: 695.1648

JCB High School | 552 Main Street | Phoenix, NY 13135

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Scheduling Process (Grades 8-9)

All students are encouraged to discuss course selections with their teachers and parents. The scheduling process is as follows:

1. For incoming freshmen, middle school counselors meet with students and their families to discuss programing options for high school. A parent information night is also offered during an evening in the winter.
2. Students select their courses for the following school year.
3. Teachers make course recommendations for their current students during recommendation days.
4. Counselors meet individually with each student to discuss course selection, high school graduation requirements and post-high school plans.
5. Parents are mailed a copy of the course selection sheet with recommendations for next year.

Planning for Four Years

A student's course selections will depend on individual abilities, interests and goals. We suggest that an entering student, working closely with parents and guidance counselors,



draw up a tentative four-year sequence of courses. Counselors will assist students and parents in developing this four-year plan at the scheduling interview.

A comprehensive academic program should be planned carefully to ensure that it meets graduation requirements and provides preparation for the student's long-range goals. Students should plan a program that is both challenging and interesting. The "Suggested Programs of Study" found on the next page provides guidelines for programs appropriate to a variety of vocational and educational goals.

Each year students should review and revise their plan before making course choices for the following year. Be sure to select courses for a variety of academic disciplines.



Path: Workforce, Military or 2-Year School

If students plan to begin work, enter military service or pursue two years of college, they should consider:

- Taking as many mathematics and science courses as they are able to handle
- Developing an understanding of computers and how to use software applications
- Choosing courses in art, business, technology and music. The Center for Instruction, Technology & Innovation (CiTi) in Mexico is another resource to acquire hands-on learning and skills.

Path: 4-Year College

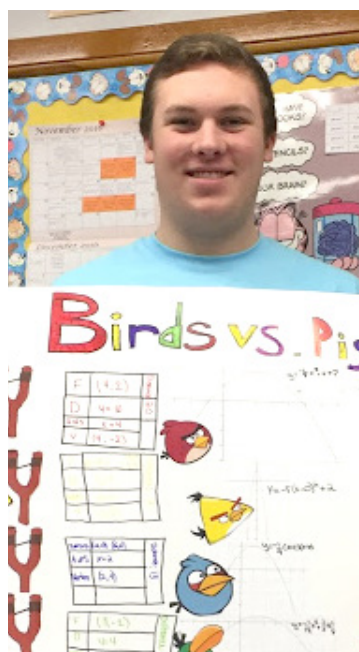
If students plan to attend a four-year college, they should strongly consider:

- 3-4 years of a foreign language
- 3-4 years of mathematics
- 3-4 years of science
- Keyboarding and computer courses
- Electives which relate to your intended career path

Note: The quality of student's grades in addition to a high degree of rigor are the most important factors in terms of measuring achievement. In general, the more selective a school or college, the more emphasis that is placed on having exemplary grades (85 or better).

Tips and Resources

- Our staff is here to address any questions or concerns. Schedule an individual planning session with a guidance counselor.
- Explore Career development opportunities through careercruising.com. See counselor for details.
- Receive support through Castle Learning (www.castlelearning.com). This site provides supplemental materials related to topics covered in class.
- View previous Regents examinations and get a better understanding of what to expect from these statewide tests: www.nysregents.org regentsprep.org





Graduation Requirements

A total of 22 units are required for graduation from JCB High School. This includes two full units over four years of physical education class. All freshmen, sophomores and juniors must have a minimum of six classes and a physical education class. Seniors must carry five classes and physical education.

Regents Diploma

English	4 credits
Social Studies	4 credits
Math.....	3 credits
Science	3 credits
(one of which must be Living Environment)	
Foreign Language (see note)	1 credit
Art/Music.....	1 credit
Health	½ credit
Physical Education.....	2 credits
Electives	3 ½ credits
TOTAL	22 credits

To qualify for a Regents Diploma all students must obtain 65% or above on all 5 Regents exams. Students with an IEP or 504 designation should discuss potential alternative diploma options with their guidance counselor.

Advanced Regents Diploma

English	4 credits
Social Studies	4 credits
Math.....	3 credits
Science	3 credits
(one of which must be Living Environment)	
Foreign Language (see note)	3 credits
Art/Music.....	1 credit
Health	½ credit
Physical Education.....	2 credits
Electives	1 ½ credits
Total	22 credits

To qualify for a Regents with Advanced Designation, all students must obtain 65% or above in the 5 required Regents exams plus Geometry and Algebra 2 Regents and a second science Regents. Students will also need to pass the Spanish/French 3 class and the corresponding Checkpoint B exam.

Note: Students seeking a Regents diploma with Advanced Designation who pursue a 5-unit sequence in Art, Music, Business, Technology or Career Education may be exempt from the second language requirement.

Honors Diploma Requirements

The words “with Honors” may be added to the Regents endorsement of a diploma if a student has earned an overall average of at least 90 in the examinations indicated.

Regents Diploma with Honors

- Regents Exam in Comprehensive English
- Regents Exam in Global Studies
- Regents Exam in US History
- Algebra Regents
- One Science Regents Exam

Regents with Advanced Designation Diploma with Honors

- Regents Exam in Comprehensive English
- Regents Exam in Global Studies
- Regents Exam in US History
- Regents Exam in Algebra
- Regents Exam in Geometry
- Regents Exam in Algebra 2
- Regents Exam in Living Environment/Earth Science
- One additional Regents Exam in Science



Graduation Planning

- Identify post-high school vocation and/or educational goals.
- Become familiar with the graduation requirements for your expected year of graduation.
- Determine the course requirements necessary to achieve your post-high school vocational and/or educational goals.
- Develop a graduation plan that will allow you to satisfy diploma requirements by your expected year of graduation, and that will prepare you for your vocational and/or educational goals.
- Select courses for next year that will match up with your graduation plan.
- Make sure that you have satisfied all graduation and state exam requirements to meet your learning objectives.



English

English courses emphasize development of communication skills, both written and oral. Students can expect to develop their skills in vocabulary, spelling, grammar and usage at each grade level of English.



English 9R

This course helps students develop communication skills. An emphasis is placed on new and classic short stories, non-fiction, Shakespeare, and classic novels. Also included is essay writing and an oral presentation. Each student will also write a multiple-page research paper. There is a final exam at the end of the course.

English 9 Honors

This course will be a challenging course that allows students the opportunity to read a wonderful assortment of literature; the Science Fiction, Fantasy, Realistic Fiction and Drama genres will be covered. Students will be expected to participate in class discussions focusing on their in-depth readings of the literature read in class and independently. Ninth-grade honors students are expected to read TWO novels during the summer before 9H and TWO novels during the second and third quarters of the year. Daily work in 9th Grade Honors may involve journals, quizzes, projects, debates, essays, writers workshop, or guided reading. To be considered successful in 9th grade honors, a student must maintain a quarterly average of 85 or better. Two quarterly averages below 85 may result in the student being placed in a 9th grade Regents class. To qualify for placement in 9th grade honors, a student must have one English teacher recommendation and earn an overall average in 8th grade English of 90 or better.

English 10R

World literature is used as the foundation for this level. Your studies may include Medieval, Renaissance, modern British literature and multicultural literature. You will continue to build your research and work study skills when you work on developing thesis statements and write a research paper. Students who score a high level 2 or low level 3 on the eighth-grade ELA qualify for this course. Other factors considered for placement include the students' score, attendance history, discipline records, number of credits earned to date, work ethic and skills.



English 10 Honors

The objective of the English 10 honors class is to prepare the student for future coursework and testing by involving critical thinking and writing skills in all areas of the English 10 curriculum. The course is designed to help students develop an intellectual process for evaluating, analyzing, synthesizing and conceptualizing. The content of this course provides students with a background in world literature. Most of the literature for this course parallels a historical time line, from the Anglo-Saxon Period to the Modern Period. Various literary genres are employed to explore the time periods, including myths, legends, tales, nonfiction, drama, the short story, poetry and the novel. During the second semester the students are responsible for writing a five to seven page research paper on an independently read novel. The course also focuses on grammar, composition, vocabulary, research, literary terms, and journal writing. To qualify for placement in English 10 honors, a student must have a 90 percent minimum average overall in English 9 Honors and the recommendation of the English 9 Honors teacher. To be considered successful in English 10 honors, a student must maintain a quarterly average of 85 percent or better. Two quarterly averages below 85 percent may result in the student being placed in an English 10 Regents class.

English 11R

American literature, literary analysis, writing and grammar skills are the basis for this section of English with concentration placed on novels, short stories, essays, and poetry. Students will continue to refine their writing skills. All English 11 students will prepare for the Common Core Regents assessment and the SATs.

English 11 Honors

Provides an in-depth analysis of American literature and how it relates to American history. This course is centered around extensive reading of novels, short stories, poetry and nonfiction selections. Students are responsible for class discussions based on the authors' purpose and the literary value of each work. Honors 11 students are responsible for independent reading during the summer before grade 11, and again during each semester of their junior year. Assessment of independent reading is based upon class presentations, projects, and objective testing. Daily class activities prepare 11 honors students for the SAT and the Common Core Regents Exam in English.

Weekly assignments are provided all year to assess skills necessary for success on these two high-stakes tests. To qualify for placement in English 11 honors, a student must earn an overall average in English 10 of 90 or better and two English teachers' recommendations. To be considered successful in English 11 honors, a student must maintain a quarterly average of 85 or better. Two quarterly averages below 85 may result in the student being placed in an English 11 Regents class.

English 12

English 12 is the final phase of our curriculum as a department. "As a natural outgrowth of meeting the charge to define college and career readiness, the standards also lay out a vision of what it means to be a literate person in the 21st century. Indeed, the skills and understandings students are expected to demonstrate have wide applications outside the classroom or workplace. They habitually perform the critical reading necessary to pick through a staggering amount of material in both print and digital formats. Students will actively seek wide, deep and thoughtful engagement with high-quality literary and informational texts that build knowledge, enlarge experience and broaden worldviews. Students meeting the standards develop skills in reading, writing, speaking and listening which are the foundation for creative and purposeful expression in language." (Common Core ELA Standards; June 2010)

War in Literature & Film

War in Literature & Film is a 12th-grade elective focusing on the essential question: Is war a human condition? Students in this course will use the knowledge built upon their high school careers from English and Social Studies as they review, view, and discuss the role that war plays in our society. Poetry, fiction and non-fiction novels, speeches, music and films (both fictional and documentaries) will be used to cover World War I, World War II, Vietnam and Operation Enduring Freedom (Iraq & Afghanistan). All aspects of this class are designed to infuse students with what they need as they prepare for either college or their careers as critical thinkers, and meets or exceeds the Common Core standards.

College English (ENG 103 and ENG 104)

A combination of freshman composition and literature are integrated throughout grade 12 rather than taught

separately. A substantial amount of writing and reading are required of students who are recommended for this accelerated course. Requirements are rigorous, yet allow opportunity for individuals to develop their writing and technical control skills. Credit for this course is accepted by many colleges and universities across the country. The college experience provides students with an opportunity to develop valuable skills and the discipline necessary for college-level work. This course satisfies the requirement for English 12 credit.

College Credits: 6 (3 fall, 3 spring)

Cost: None

Children's Literature

Children's Literature is a 12th grade elective that will allow students to pursue rigorous inquiries in the history, evolution, and current trends of children's and young adult literature (in both picture and chapter book form). Educational topics will include, but not be limited to, gender studies, multiculturalism, censorship, and a variety of social/psychological themes. Students will work independently, in literature circles, and in whole group discussions—using both verbal and written communication. The ultimate goal will be to discover the role that children literature plays in understanding the greater context of literacy.

Mythology: The Myth and Its Function

The aim of this half-year course for 11th or 12th graders is to examine the myths and their function, the dynamic role mythological heroes have had on our culture, and the presence of myths today. Throughout this careful study, students will explore myths using "Mythology," by Edith Hamilton, as our primary text. Students will also do a detailed analysis of Joseph Campbell's hero cycle and its far-reaching applications from Greek mythology to modern day heroes (e.g., "Star Wars," "Harry Potter," "Arrow," etc.) If you love drama, family feuds, very odd "relationships," talking animals and freakish feats of strength, then mythology is for you!

Throughout this course, students will annotate text, take notes, participate in-group presentations, engage in public speaking, delve into creative writing, and write a research paper. (*If this course is in the fall semester, students will also work on the college application process, including their college essay.)

This course is more than just classic heroes and flying ponies, rather this is a course for those who like to ask

questions. The skills this course hopes to cultivate will have benefits in the world of work or the college community: critical reading, engaging discussions, public speaking and multiple genres of writing.

Science-Fiction

Do you often daydream about space travel? Are you drawn to stories that take place in the future? Do you love thinking about how different technology will be 50 years from now? Is a world with flying cars and hoverboards appealing to you?

If you've answered yes to any of these questions, then Science Fiction is the class for you! The widespread adoration of dystopian novels and films is helping make science fiction one of the most popular genres in fiction today. This class attempts to channel that enthusiasm for the genre and create long lasting and meaningful connections between the literature and the world itself. The study of classic and contemporary science fiction as well as the societal conditions which inspire science fiction as a genre will be the core focus of this class. The analysis of literature, informational text, and culture, as well as public speaking and written expression are the backbone of this section of English. The class will focus on novels, short stories, and plays and their correlations to the real world.

Prerequisite: Successful completion of English 10R or 10H.

Movies & Literature: The Storytelling Relationship

The aim of this half-year course for 11th or 12 grade students is to examine the complex storytelling relationship between the printed word and the visual representation in film. Throughout this examination, students will ponder multiple questions about the storytelling.

Units will explore multiple short stories, novellas and the like. Throughout this course, students will annotate multiple texts, engage in speeches and group presentations, dabble with creative writing and write an analytical paper. (*If this course is in the fall semester, students will also work on the college application process, including their college essay.)

This course is more than just watching movies (for only a few will be shown in their entirety, mostly clips); rather this is a course for those who appreciate the art of storytelling as movies interpret the author's work. The skills this course hopes to cultivate will have benefits in the world of work or the college community: critical reading, engaging discussions, public speaking, and analytical writing.

Social Studies

Studying the past gives meaning to where you are today and the direction you want to go. In history classes you will be exposed to a chronological survey of the past with an emphasis during each year as indicated. See page 30 for AP History courses.

Interested in Exploring Other Cultures?

If your social studies course has you thinking about exploring other cultures, there are plenty of options available! You can get first-hand knowledge of history, geography and customs of other countries by studying abroad. Contact your guidance counselor if you are considering a foreign exchange opportunity and you want to experience the sights, sounds, weather and culture as a student abroad. Funding is available! Check out the PCSD website at phoenixcsd.org for more information.

Global Studies 9R

This course takes a chronological approach to the study of our world. Beginning with the civilizations of early man, it continues until 1750. This course enables students to draw parallels between various areas of the world and their cultures – geography, religion, history, and interdependence. Preparation will begin for the Regents exam that will be given at the end of Global Studies 10.

Global 9 Honors

The curriculum incorporates the New York State Regents curriculum for Global 9R (see above) but goes into greater depth of turning points in global history. Students will be expected to complete several projects throughout the year.

Prerequisite: 90 average or better in eighth grade social studies and teacher recommendation.

Global Studies 10R

This course is a continuation of Global Studies 9, beginning with 1750 up to the present day. Students will continue to draw parallels between many areas of the world along with their cultures, through geography, religion, history and independence movements. Students at this level will take the Global Studies Regents in June.

Prerequisite: Successful completion of Global 9R

Global Studies 10 Honors

The curriculum for this honors level course incorporates the regents curriculum for Global 10R (see above) with the more detailed look at various events in history. Students will also be expected to complete several projects throughout the year. Tests will include AP style questions to prepare them in the event they take AP American History at 11th graders. Students will be expected to take the Global Studies Regents at the end of the year.

Prerequisite: 90 average or higher in Global 9R, Global 9R teacher recommendation & a 90 or better on the Global 9R final exam.

College-Level Social Studies Courses

AP US History
AP European History

College Psychology 103
College Sociology 103

(see college course descriptions in back of catalog)

US History 11R

American history with an emphasis on the post civil war era to the present. The problems of a dynamic industrial society in a technology-oriented world will be studied.

AP US History

Learn the analytical and factual skills in American history from colonial to present times. The course culminates with a three-hour exam that is equivalent to a full year of an introductory college course. The AP American history exam is required.

Exam Fee: \$93; *subject to change*

AP European History

The objective of this course is to increase students' understanding and appreciation of European history while helping each student succeed on the AP European history exam. This course will examine European history from 1350 to the present, focusing on the social, political, religious, intellectual, technological and economic developments throughout this period. These areas are studied from a variety of perspectives with the hope of providing a balanced view of history. This course is taught at the college level, which requires a greater amount of reading and expanded depth of focus. Moreover, the AP curriculum demands higher-order thinking skills within a rigorous academic context. Students are required to analyze, synthesize and evaluate primary and secondary historical resources, in addition to comprehending, memorizing and applying facts. These skills will be assessed through a number of tests, quizzes and assignments. The course culminates with a three-hour exam that is equivalent to a full year of an introductory college course, and may earn you college credit hours. An AP exam is required up-on completion.

Exam Fee: \$93; *subject to change*



Psychology

This is a course that emphasizes human development across the life span. Among the topics covered are basic psychological theories, research methods, the effects of nature vs. nurture on human behavior, sex-role stereotypes, stress, intelligence, learning theory and moral development. Emphasis is placed on such theorists as Skinner, Freud, Piaget, Maslow and Kohlberg, each with unique observations of human behavior.

Credit: 1/2 high school credit

Government

This is a senior course which emphasizes the interaction between citizens and government at all levels - local, state and federal. Students will learn how political decisions are made and will be given opportunities to participate in political decision-making. Selected public policy issues will be examined.

Economics

This is a semester course in which students will learn about current issues such as monetary/fiscal policy, the GNP, and governmental budgets and how they impact their everyday lives. A personal budget and stock market game have been developed to enhance that experience.

Sociology

This is a semester course revolving around the stresses and issues identified by sociologists as significantly impacting family relationships such as divorce, alcoholism, mental illness and poverty.

Credit: 1/2 high school credit

Science

Science courses provide students with opportunities to examine, experiment, and explore a range of topics. Students gain a systematic knowledge of the physical or material world through observation and experimentation.

College-Level Courses

Get a jump-start on your college education and explore options to earn college-level science credits while still in high school. Credit-bearing science courses include AP Physics and AP Biology.



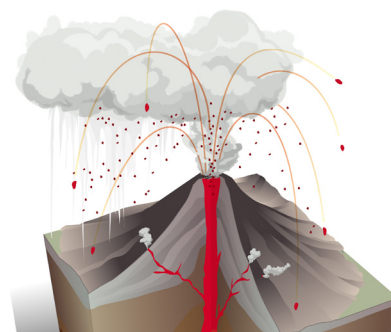
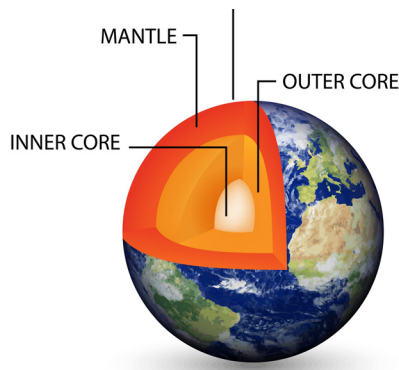
Earth Science Regents

This laboratory and activity oriented ninth grade course is an integrated study of the Earth's history, composition, structure, processes, its atmosphere, oceans and beyond into the universe. Students will use a variety of learning techniques to refine their inquiry, problem solving and communication skills to become more knowledgeable decision-makers regarding their natural environment. After successful completion of the required labs, students will take the Earth Science Regents exam in June.

Earth Science Honors

This higher-level Regents core science course offers students more challenging opportunities to learn science processes, as well as prepare for future success in which students may excel in preparation for college. Students with an above-average interest and capability in science will learn the same Earth and space science core concepts as well as have the opportunity to enhance their higher-order thinking skills by performing research and hands-on labs in preparation for the June Regents exam. Students will be challenged at an advanced level to achieve above mastery level learning and will be expected to participate in investigative projects and science competitions to stimulate their critical thinking skills. To receive honors credit status for this course, students are expected to maintain an 85 average.

Prerequisite: Students are expected to score a Level 3 or higher on the Science 8 Assessment. They should have an average of 90 or higher in their eighth-grade science course.



Living Environment (Biology)

You will learn more about genetics in this course than most scientists knew in the mid-nineteenth century. This course provides a broad understanding of the fundamental concepts of human physiology, biochemistry and genetics. The concepts of reproduction, development, heredity, evolution and ecology will be taught. Students must pass the course in order to graduate and are expected to pass the Living Environment Regents Exam given at the end of the year. The course meets on a 3 out of 4 day rotation pattern. The course sessions include a laboratory component. The laboratory obligation is a New York State requirement for admittance to the Living Environment Regents exam.



Physical Science

This course is a third year science course intended to offer a fundamental overview of physical science principles as well as the role of science in student's everyday life. The course will address current and relevant topics in a wide range of scientific disciplines while providing the scientific background behind these topics. The main focus of this course will be on crafting creative solutions to both abstract and real world scientific problems. This problem solving will take the form of class discussion, researching and presenting findings upon relevant scientific topics, experimentation, and collaborative projects.



Chemistry Regents

If you are planning to attend college or are interested in any type of scientific career, take this course. In a college chemistry course you will have an important advantage over students exposed to the material for the first time. Chemistry is a 40-week course that covers the areas of matter, energy, atomic structure, nuclear energy, bonding, the periodic table, kinetics and equilibrium, acid-base theories, redox, electrochemistry and organic chemistry. Laboratory work is designed to foster analytical skills and problem solving abilities while providing valuable hands on experience.

Prerequisites: Students must have passed Earth Science, Living Environment and Algebra courses and Regents exams. They should also have passed or be enrolled in Geometry.

Applied Chemistry

This is a 40-week course designed for students whose goals and interests are different from those taking Regents chemistry. The laboratory approach is stressed and comprehension comes out of these experiences. The appreciation of scientific methods, the ability and willingness to change beliefs and opinions after careful weighing of new evidence, and the development of critical thinking are the tangible and important outcomes of this course. The content core consists of similarities and dissimilarities of matter; preparation and separation of substances; and structures and properties of simple organic compounds. These core concepts are covered through learning about the environment, the conservation of natural resources, petroleum and nuclear energy.

Physics Regents

Regents Physics is an elective science course designed for 11th and 12th graders who are planning to attend college or are interested in any type of scientific or technical career. Physics can be most simply summed up as the study of the rules of nature. To gain a greater appreciation and understanding of these rules we will do a large number of hands-on lab experiences. Using algebra to solve problems will be a major topic throughout the course. Although the mathematical concepts required for the course will be reviewed, it is expected that students entering the course have a solid background in algebra and have successfully completed courses in algebra and geometry. Topics we will investigate include but are not limited to: motion, forces, momentum, energy, waves, electricity, magnetism, and modern physics. This course requires a laboratory component and therefore meets on a 3 out of 4 day rotation pattern. This laboratory component is a New York State requirement for admittance to the Physics Regents exam, which will serve as the final exam for the course.

Prerequisites: Successful completion of the Algebra, Geometry and Living Environment Regents exams. The student should also have previously taken or be enrolled in Algebra 2.

AP Physics 1

AP Physics 1 is a rigorous, college-level science course designed

to provide 11th and 12th grade students with an experience equivalent to the first semester of an introductory algebra based college level physics course. The course will be designed around college-level laboratory experiences, demonstrations, class discussion and assigned college-level problem sets. Students selecting this course should have a strong math background and a desire to be challenged, as homework will be assigned on a nightly basis. Topics we will investigate include, but are not limited to: motion, forces, energy, momentum, rotation, waves, electricity, magnetism, and modern physics. This course requires a laboratory component and therefore meets on a 3 out of 4 day rotation pattern. This laboratory component is a New York State requirement for admittance to the Physics Regents exam, which will serve as the final exam for the course. Students will also have the opportunity to earn college credit through completion of the AP Physics 1 exam in May (all students in this course must take this exam).

Exam Fee: \$93; *subject to change*

Prerequisites: Successful completion of Algebra 2 and Regents Chemistry with a suggested grade of 85% for each course.

Forensic Science

Forensic Science is a full year course that is an introduction into forensic science, including the history and development of the science and the study of lab techniques involved in forensics.

Students will examine the case histories of Jack the Ripper and mummies. Some of the course topics include: forensic entomology, glass fractures, blood analysis, microscopic investigations of hair/fibers and toxicology. Students will investigate the forensic aspects of arson and explosions.

Prerequisite: Passing course grades in earth science and living environment.

AP Biology

The AP biology course is designed to be the equivalent of a college introductory biology course usually taken by biology majors during their first year. AP biology includes topics regularly covered in a college biology course for majors. The college course in biology differs significantly from the usual first high school course with respect to the textbook used, the range and depth of topics covered, the laboratory work done by students, and the time and effort required. The kinds of labs done by AP students are the equivalent of those done by college students. This course provides students with the conceptual framework, factual knowledge and analytical skills necessary to deal critically with the rapidly changing science of biology. College credit may be earned by successful completion of the AP biology exam in May (all students must take this exam).

Exam Fee: \$93; *subject to change*

Prerequisites: Successful completion of biology Regents and chemistry Regents.



MATH DEPARTMENT COURSE PROGRESSION AND PREREQUISITE CHART

Typically students will not be concurrently enrolled in regents level courses. Sometimes students will be enrolled in a regents and elective course in the same school year



Mathematics

Students can explore several branches of mathematics during their high school career. The courses will provide students with a better understanding of numbers, formulas, relationships between figures and forms, and relations between quantities expressed symbolically.

Algebra 1 (Grade 9)

This course is primarily an algebra course, emphasizing linear relationships, functions, polynomials, quadratics, systems of equations, rational and radical expressions. The Algebra Regents exam is offered at the end of this course. The use of a TI 84 Plus calculator is optional at this level. At higher-level math courses, students are required to use the TI 84 Plus.

Geometry (Grade 10)

This course emphasizes plane and Euclidean geometric relationships and proofs with logic, as well as indirect and coordinate proofs. This is the second course of three Regents courses required for an advanced designation diploma. Course concludes with the Geometry Regents exam in June. Students who pass algebra and algebra Regents qualify for this course.

Algebra 2 (Grade 11)

The third of the three-year sequence in math expands on algebra and trigonometry, introduces algebraic fractions with binomial denominators, complex

numbers, and exponential/logarithmic functions. The Algebra 2 Regents exam is offered at the end of this course. Students who pass 10th-grade geometry and Regents exam qualify for this course. Other factors considered for placement include the students' score, attendance history, discipline record, work ethic and skills.

Intermediate Algebra (Grade 11)

Designed to improve algebraic skills, this course gives students added knowledge of algebra applications in the first year of college mathematics. This course will satisfy a local three-year sequence requirement.

Business Math (1 credit)

This is a course designed to help develop and apply math skills in the workplace and in daily life. Fundamental math skills will be reinforced and competencies in business applications will be mastered. Topics include paycheck and wage plans, taxes and deductions, banking services, loans and credit cards, budgeting and spending wisely, owning a car, insurance and investments. May be used as a third year of math for Regents credit.

Credit: 1 high school credit

Math 104

This course is designed for seniors who are refining their math skills for college. Topics include algebraic functions, rationales, exponentials, logarithms and trigonometry functions. Emphasis will be placed on applications

of trigonometry to triangles and vectors. A scientific calculator is required.

Prerequisite: Passing score on OCC Accuplacer

Applied Mathematics in Technology

This is a hands-on course that explores the use and application of mathematical principles in the field of motor sports technology. Course includes chassis design and fabrication, materials application, aerodynamics, suspension design and analysis.

Pre-Calculus (MATH 143)

This full-year course is designed to offer pre-calculus topics to students in preparation for calculus the next year, whether in high school calculus or first year of college. While there is not a Regents at the end of the course, the material is considered to be Regents level. Students must have an average of 75 or higher in the Algebra 2 class and a 70 percent grade on the Algebra 2 Regents.

College Credits: 4

Cost: None

Calculus (MATH 161)

College-level calculus course for students completing all four years of high school math. Topics include derivatives, integrals, transcendental functions and analytical geometry.

Prerequisite: Pre-Calculus

College Credits: 4

Cost: None

Foreign Language

Delve into the heart of other cultures by learning to speak a foreign language. Develop written and verbal communication skills that will broaden your abilities to interact with others. Choose from French, Italian or Spanish.

College-Level Courses

CCC French 103

CCC Spanish 103

OCC Italian 101

OCC Italian 102

Course descriptions can be found inside this catalog.

French 2

Students will expand their speaking, reading, writing and listening skills in the target language at level 2. They will be able to combine their language skills and creativity by doing many projects during the year using 21st century skills. They will be able to incorporate their own knowledge of media and technology to make them and their peers more interested in using the target language and participating in communications with others.

Spanish 2

This course is designed for students who have successfully completed Spanish 1. This class will help you become more comfortable using your Spanish 1 language skills. Additionally, you will sharpen your hard learned skills, increase your ability to communicate through more in-depth studying of the language structure, have increased speaking opportunities, and also add more verb tenses and grammatical structures.

Final exam: Local

French 3

Students will continue to sharpen their writing and speaking skills. Frequent reading and listening practices will be necessary for review of grammar and vocabulary. New activities and expansion of grammar in the target language will be important at this level. Students will be expected to pass the comprehensive regional exam that will be given in June.

Spanish 3

The next step on your linguistic journey will be challenging, but well worth it. You will better understand Hispanic culture by being exposed to authentic Spanish materials intended for native speakers. Students are expected to use Spanish and refine their speaking, reading, writing, listening and grammar skills. There is a focus on extensive review in preparation for the Regional Checkpoint B Exam in June. Students are expected to pass both the course and the Checkpoint B exam.

French 1

This course meets the graduation requirement for the Language other than English. It is an introductory course designed to teach students how to speak the French language. Students will learn how to communicate with other French-speaking citizens. They will also develop a better understanding of English as it relates to French. Students will explore both cultural similarities and differences in the French speaking provinces. They will gain an appreciation for a different culture.

Spanish 1

This course will lay the foundation for your exploration of the Spanish culture and language. You will learn the basic skills of listening, speaking, reading and writing. Your communication skills will be developed through learning vocabulary and teacher-to-student and student-to-student conversations that stress everyday situations.

Final exam: Local

Business

Explore the diverse world of business through some of our business courses. Offerings include basic keyboarding skills to advanced business law topics. Gain a better understanding of business and learn to apply the skills you develop in real-world situations.



College-Level Course

BUS 225: Micro Computers

Course description on page 33

MS Word

Students develop keyboard mastery and document-processing skills using Word. Learn how to easily set up academic reports, tables, memos, and letters; learn how to navigate around this widely-used program to produce professional-quality documents that meet both academic and business standards. Recommended for all students.

Credit: 1/2 high school credit

Computer Projects

This half-year course offers students an introduction to the technological world. Today's students are expected to incorporate computer competencies into their school and professional work. Students will work with the Windows format, learn to produce Word documents, Excel spreadsheets, Access databases, PowerPoint presentations, Publisher, desktop publishing documents, and use the Internet. This is recommended for all students.

Credit: 1/2 high school credit

Prerequisite: Completion of Word 2013, or possessing basic computer competency.

Consumer & Personal Law

Know your legal rights and responsibilities as a consumer and U.S. citizen. This course offers a look at the principles and applications of law using real cases and court opinions for analysis. Topics include civil and criminal law, family and consumer law, contracts, buying and selling goods, employment, and property laws. Recommended for juniors and seniors.

Credit: 1/2 high school credit



Sports, Entertainment & Hospitality Marketing

Students will develop skills in the areas of marketing and management that will be transferable from the classroom to the business world. E-commerce, sports and entertainment marketing, travel and tourism, and retail merchandising are just some of the topics students will explore. Members will develop skills and competencies that will help them be effective in DECA's competitive events program at the regional, state and possibly national level. Students will be required to participate in the regional DECA competition at Lemoyne College in December. DECA is a nationally recognized organization for business and marketing students.

Credit: 1/2 high school credit



Small Business Management

Students learn how to keep business records, to deal with business-related topics relevant to the entrepreneur. Students also consider how interpersonal relations, business ethics, free enterprise and employer/employee relations impact their future and the field of business.

Credit: 1/2 high school credit



Accounting I

Thinking about a career in Accounting or in the business field? These classes acquaint you with general business practices and accounting concepts. It covers the skills necessary to maintain a set of books for a sole proprietorship and prepare financial statements. May be used as a third year of math for Regents credit.

Credit: 1 high school credit



Career Exploration

This arranges in-depth visits to job sites for all sophomores. Students can see first-hand what a day might be like at their dream career. Students learn from experienced professionals to determine if they would like to pursue a particular career.

Job Shadow

For juniors and seniors who are thinking about future careers and wondering what different jobs are like. Every student should take advantage of job shadow opportunities to decide which career would be best for them.

Technology

Students can develop skills in preparation for an evolving high-tech world. Explore one of these innovative courses during your high school journey!

Architectural Drawing

This course is a study of design and drafting related to building construction. Topics include culture and history, tools and techniques, lettering, aesthetics, site planning, area/room planning, floor planning, dimensioning, sections/framing, exterior/elevations, perspectives and careers. This course utilizes Chief Architect software for drawing and design.

Credit: 1/2 high school credit



Career & Financial Management

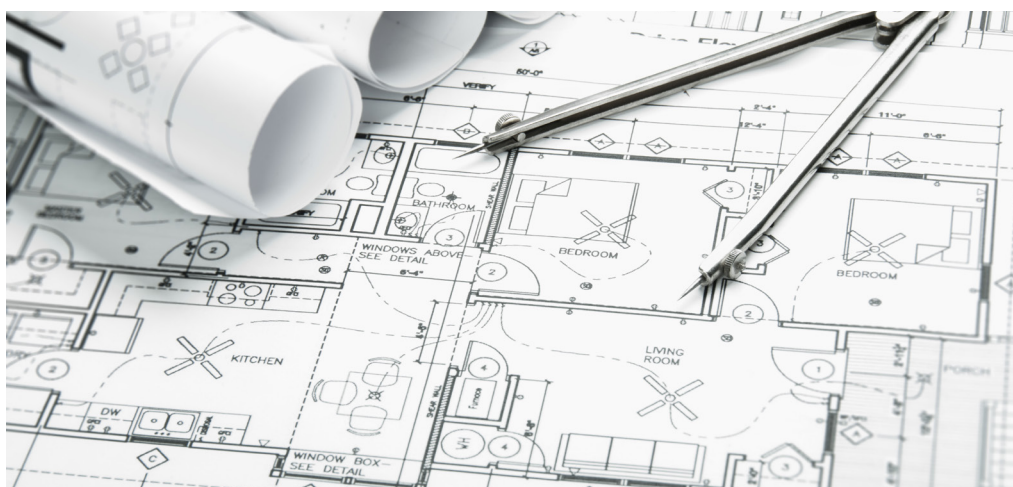
This course introduces how the business world functions, how students might match their talents with particular careers, how students can meet their financial desires. Required for a student pursuing a five-unit sequence that replaces the foreign language requirement.

Computer Aided Drawing

This course is an introduction to computer drawing and design. Students will learn how to use computer software to create various types of technical drawings and three dimensional models. These practices are widely used in various technical industries and careers such as construction, engineering, woodworking, and manufacturing.

Computer Animation

This course deals with the use of a computer as a way of generating artwork and animation. Students will learn the basic techniques used to model three dimensional objects and move them over time using a professional quality software called 3D Studio Max. Students will also investigate and learn various techniques used to create special effects in various entertainment industries such as television, movies and video games.



Electricity and Electronics

This course is the study of electricity and electronics in the home. Students will study both AC and DC electric sources, circuit applications, various electrical and electronic devices, and basic residential wiring. May be used as a third year of science for Regents credit.

Credit: 1/2 high school credit

Energy

This is a course which deals with current trends in energy usage and conservation. Students will learn about solar, geothermal, fossil fuels, recycling, and other energy sources as they apply to the world we live in. May be used as a third year of science for Regents credit.

Credit: 1/2 high school credit

Materials Processing

This course is designed to give the students experience in working with common industrial materials such as wood, metal, and plastics along with the tools and equipment necessary to form these materials. The students will get hands on experience producing useful products. May be used as a third year of science for Regents credit.

Credit: 1/2 high school credit

Production Systems

This course consists of an overview of the history and



processes used to produce products for the end consumer in today's society. Students will learn how basic manufacturing processes are used to mass produce a class project. May be used as a third year of science for Regents credit.

Credit: 1/2 high school credit

Design & Drawing for Production

This course combines basic technical drawing with solving design problems. The students will be presented a series of design/engineering problems that will be solved with the use of drawings, resulting in the creation of a model of their design, and testing of their design model. DDP is a pre-requisite for other technology course work.

Credit: 1 high school credit (meets the art/music credit requirements)

Transportation Systems

This course consists of an overview of aerospace, land and

marine transportation systems. Included in the curriculum is marine design, construction, and safety; airplane design, construction, and safety; and Automobile design, construction and safety. Students will design/build a project related to each area of instruction. May be used as a third year of science for Regents credit.

Credit: 1/2 high school credit

Applied Mathematics in Technology

This course is a hands-on technology course that explores the use and application of mathematics principles in the field of motor sports technology, construction technology and metal fabrication. The course will include: welding, small gas engines, wood frame construction and material estimation. May be used as a third year of math for a full Regents credit

Credit: 1 high school credit

Music

Showcase your musical talents through vocal courses, band or orchestra. Participate in concerts for friends, family and community members. Join our nationally recognized music program!

**Firebird Concert Choir**

The Firebird Concert Choir is a single, mixed voice ensemble which is open to all students in grades nine through twelve. Repertoire consists of a wide variety of choral styles including contemporary pop, show tunes, spirituals, novelty arrangements, as well as traditional choral literature. The Firebird concert Choir is very active and performs many times throughout the year. Many choir members participate in All-County, Area all-State, and NYSSMA Solo Festivals. We may also travel to national competitions. Members of the ensembles are expected to actively participate in fundraising activities for these trips. There are opportunities for leadership development and personal growth in a friendly, cooperative spirit. Grades are based on sectional rehearsals, concert attendance, class participation, and rehearsal etiquette. Vocal music students are encouraged to become involved with our various extra-curricular activities which include sing-outs, talent shows, as well as various theatrical endeavors throughout the year.

Firebird Chamber Singers

Chamber Singers is a small, advance repertoire vocal ensemble which is selected from the Concert Chorus. Chamber Singers students are also members of the Concert Choir. Prior to enrollment, students must perform an audition to demonstrate the proficiency and skills needed for this technically challenging music. The purpose of this ensemble is to offer advanced vocal students the opportunity to learn highly challenging choral literature in a variety of styles. This ensemble is often invited to participate in local community performances, and special events. Enrollment will be limited to approximately 12-16 students. Auditions may be held at any time prior to enrollment, by appointment with the ensemble Director. In most cases, current members will not be required to re-audition.

Firebird Symphonic Band

This ensemble performs a variety of literature (Level 3-4) in four or more concerts per year, the Memorial Day parade, occasional performances in the immediate area as well competitions throughout the state and beyond. Students are required to attend all concerts, five instrumental lessons per quarter (that are scheduled on a six-day rotation) and practice musical requirements of the course. Members from these ensembles are also eligible to participate in All-County Band, area All-State Band, All-County Orchestra, Conference All State Band, NYSSBA Honor Band, NYSSMA Solo Festivals, and Tri-M National Music Honor Society. Grades are based on attendance at individual lessons and at all performances. This group is open to all students regardless of experience.



Firebird Wind Ensemble

This ensemble performs a variety of literature (Level 5-6) in four or more concerts per year, the Memorial Day parade, occasional performances in the immediate area, as well as competitions throughout the state and beyond. Students will be selected to enroll in wind ensemble by the directors recommendation. Students are required to attend all concerts, five instrumental lessons per quarter that are scheduled on a six-day rotation and practice in All-County Band, Area All-State Band, All County Orchestra, Conference All-State Band, NYSBDA Honor Band, NYSSMA Solo Festivals, and Tri-M National Music Honor Society. Grades are based on individual lesson attendance and attendance at all performances. Open only to students with prior instrumental experience and/or by approval of the directors.

Music Theory (Grades 10-12)

This course is designed for students who are interested in

furthering their knowledge of music and its rules and principles. The students develop skills in listening, analyzing, composing, arranging and harmonizing music. It is especially important for students planning to pursue music as a career or a hobby. Students should possess a rudimentary background of music fundamentals (should have a good understanding of reading music, writing music, etc.). This class is required for a sequence in music.

Advanced Music Theory

This course is designed for the music major who will be pursuing a career in music and is geared toward preparing that student for college entrance into upper level music theory. Coursework will include a review of Music Theory I, as well as an in-depth study of composition as it relates to the principles previously learned.

Prerequisite: Music Theory I. This course is required for a sequence in music.

Theatre Arts: Stage

Open to all students interested in learning about acting and theatrical stagecraft. The course will focus primarily on acting techniques but will also include areas of technical theatre specific to the needs of the actor. The units of study include: acting basics, improvisational techniques, the characterization process, auditioning, directing, and producing, as well as some lighting, sound, scenic design,

makeup and special effects that are specific to the needs of the actor. Students will participate in class activities individually and in groups. Some field trips may be planned to see professional theatrical productions. No prior experience in theatre is necessary, however, a willingness to participate in various acting activities as well that will force students out of their “comfort zone” is essential to a successful experience.

Theatre Arts: Tech

Open to all students interested in learning about theatrical stagecraft and acting. The course will focus primarily on Technical Theater but will also include some basic study in acting and characterization. Units of study include: stage lighting, sound, scenic design, theatrical makeup and special effects for the stage, directing, producing, and set construction. Students will participate in class activities individually and in groups. A number of projects will be assigned in the different areas as well. Some field trips may be planned to see professional theatrical productions. No prior experience in theatre is necessary, however, a willingness to engage in physical labor and fully participate in all course activities is expected and essential to a successful experience.



ART DEPARTMENT

COURSE PROGRESSION AND PREREQUISITE CHART



Art

Express your creativity through various forms of art. Choose from traditional mediums such as watercolor and ink, or explore computer-generated artwork.



Studio Art

This is an introductory course to art techniques in drawing, pastels, tempera, painting, watercolor, ink and pencil. Projects included will be still-life, abstract painting, portrait drawing, perspective scenes and creative designs. Introduction into art history is integrated with class activities. This course can be enjoyed by students of all ability levels. Meets the requirement for the art and music state mandate.

Grade Level: Any

Course Length: Full year

Drawing & Painting

This is a course designed for students who have demonstrated above average abilities in artistic skills and interest. Students will be encouraged to develop expanded drawing and painting skills and techniques. Medias covered will include acrylic, pastel, ink, pencil, watercolor and others. Projects include landscapes, portraits, still-life and student centered and directed designs.

Prerequisite: Studio Art

Grade Level: Any (as long as prerequisite is met)

Course Length: Full year

Advanced Drawing and Painting

Through this course students will expand on prior knowledge and perfect techniques in watercolors, acrylics, pen and ink, charcoal and pastels. Students will end the course with a student art exhibit and portfolio that will prepare the student for a future in the arts. Prerequisite: Studio Art and Drawing and Painting 1

Grade Level: 10th or above

Course Length: Full year

Advertising/Computer Design

The class will serve as the vehicle through which students will gain hands-on experience in advertising, marketing, illustration, and graphic design. Students develop skills in a wide variety of areas, including planning, layout, production, digital photography, digital imaging, graphic design, advertising, sales, and marketing. Students will be exposed to desktop publishing techniques, Adobe Photoshop, video creation software, Microsoft PowerPoint and apps for various design formats. It is recommended that students have access to a digital camera and a basic knowledge of Adobe Photoshop.

Prerequisite: Studio Art

Grade Level: 11th and 12th; 10th graders need consent of the instructor

Course Length: Full year

Two Dimensional Design and Print Making

Students will expand their art skills beyond what was learned in Advanced Drawing and Painting. Students are given choice regarding subject matter and media, allowing them to play to the strengths developed in years past. Students will also explore new media such as printmaking. The primary focus of 2D Design is to begin to create a portfolio of work that can be used for exhibition purposes and in the college entry process.

Prerequisites: Studio Art, Drawing & Painting, Advanced Drawing & Painting

Grade Level: 11th and 12th

Course Length: Full year

AP Portfolio

The AP Portfolio for Studio Art in Drawing or 2D Design is a practical studio experience in which students will develop and create a portfolio of artwork exhibiting a high level of quality and craftsmanship, mastery in a wide variety of media, technical skills and process, and competent use of design concepts and solutions. Students will be highly motivated and expected to develop an artistic voice and vocabulary, while developing a body of work that adheres to the AP College Board requirements. This will include working on projects outside of class. The goal of the class is to submit a portfolio to the AP College Board evaluators or to prepare a portfolio for college art program entry.

Prerequisites: Successful completion of Studio Art, Drawing & Painting, Advanced Drawing & Painting, and 2D Design

Course Length: Full year

Exam Fee: \$93; subject to change

Visual Arts 1 & 2

Advanced course for students who wish to work on portfolio pieces for college admissions. Students will explore inner artistic talents and focus on one's main interests in art as well as explore new techniques/ideas. Students will work on furthering their skills and techniques for higher quality work as well as assess each project and be able to communicate about their work using artistic terminology. You will be responsible for choosing and organizing your projects within the provided guidelines for each project. The teacher's role will be to facilitate building your skills and help you to develop ideas through discussion and critique of your work.

Prerequisites: Teacher Approval and successful completion of Studio Art, Drawing & Painting, Advanced Drawing & Painting (can be concurrently enrolled in 2D Design)

Course Length: 1/2 year

Intermediate Photography 1 & 2

Students will extend skills learned in prior courses to explore image creation possibilities

with a camera system of their choice (Film or Digital.) Students will choose subject matter, compositional, and creative aspects within the guidelines of assigned projects. Efficiency in "editing and production skills" will be required. Students will complete image assignments, along with verbal and written critiques to further their photographic growth.

Prerequisites: Art 250 Intro to Film Photo, Art 253 Digital Photo, permission of teacher. Intermediate Photo 2 would require successful completion of Int. Photo 1

Ceramics 1

During Ceramics 1, the students will be introduced to the basic skills and creative processes involved in the hands-on experience of working with clay. The students will be using and applying their knowledge of the elements of art through experiencing the traditional hand building techniques of pinching, coiling, molding, and slabs. The students will be developing individualized expressions in their hand-building craft and learn the safe use of various pottery tools and procedures.

Ceramics 2

During Ceramics 2, Advanced Ceramics, Students will review the hand-building processes and further develop their knowledge by using the art elements and principles of design to produce

non-functional and functional three-dimensional art forms constructed from clay. Students may explore both functional and nonfunctional forms using hand building, and will be introduced to the potter's wheel. Students will be introduced to contemporary and historical clay artists for artists' critiques and examples. Students will continue to add 3-dimensional glazed work into digital presentations.

Ceramics 3

This is yearlong course, providing students who have completed both Ceramics 1 and 2, with an in depth study of ceramics, while demonstrating progress through the New York State Visual Art Standards and objectives.

Students will be building upon and enhancing their basic ceramic handbuilding skills and/or wheel throwing skills. Students will develop focus on individual ideas and content in 3-dimensional art and expanding their knowledge of how the art elements and principles of design produce both nonfunctional and functional three-dimensional art forms constructed from clay.

Students will, among other objectives, select ceramics media, techniques, technology and processes; initiate and solve challenging problems in

construction and form development; and develop an area of concentration within ceramics to be used as a means of self-expression.

Ceramics 4

This is a yearlong course, providing students who have completed Ceramics 1, 2, and 3 with an in depth study of ceramics that allows for personal voice (signature) and exploration with both functionality and decorative sculptural forms. Ceramic 4 students should have earned a 90 and above grade in Ceramics 3 and will be demonstrating progress through the New York State Visual Art Standards and objectives.

During Ceramics 4, students will refine their construction and forming techniques on the potter's wheel. Students will develop focus on the mastery of decorating techniques as well as on individual ideas and content. Students will be applying critical and aesthetic criteria for improving their works (i.e. techniques, formal and expressive qualities, and content) and meeting with the teacher for additional guidance in developing ideas and expanding knowledge. Students will continue to develop an area of focus, either in forming, (i.e. potter's wheel, hand building), sculpture and/or glazes, or surface design.

Physical Education & Health

Through participation in the **Physical Education** program, students will acquire the knowledge and skills to establish and maintain physical fitness, participate in physical activities and maintain personal health.

Activities will include skill and knowledge development for participation in lifetime activities and individual and team sports. Outcomes from participation include the development of respect for themselves and others through cooperation, competition, and teamwork. Student development of sportsmanship will be fundamental to all activities as well as having a safe, professional and friendly environment.

Participation for four years will meet the local school and state mandated requirements for physical education. Activities may include soccer, badminton, softball, basketball, floor hockey, tennis volleyball, weight training, archery, handball, paddleball, and other recreational activities.

Health is a required class touches on a variety of topics designed to teach students healthy lifestyle choices.





Hands-On Learning Opportunities Available at CiTi

CiT i BOCES programs provide high school students with an alternative method to learn about career areas of interest. Career exploration programs give the students exposure to the universal foundation skills required for success at work and an entry-level knowledge base for continuing their education in the given area of specialty. Career and Technical Education programs include hands-on courses in the following areas: Arts/Humanities, Engineering Technology, Health Sciences and Human/Public Services. To find out a detailed description of individual career areas, please see your school counselor.

New Vision Allied Health

This program is designed for high school seniors interested in pursuing a career in healthcare. Students will participate in classroom instruction and career-related experiences observed during clinical rotations in settings such as Oswego Hospital and other Oswego Health sites, NOCHSI Health Centers in Oswego and Fulton and private practices ranging from primary care to dental care. The classroom setting is held on the SUNY Oswego campus, giving students their first experience as college students.

Credits: College credits available, in addition to the high school credits that will be met upon the successful completion of the course

New Vision Law and Government

This program is designed for high school seniors interested in pursuing a career in law, public safety or government. Students will participate in classroom instruction and career-related experiences observed during rotations in settings such as the Oswego County Probation Department, Fulton Police Department and E-911. The classroom setting is held on the SUNY Oswego campus, giving students their first experience as college students. Admission to this program is granted through an application and interview process.

Credits: College credits available, in addition to the high school credits that will be met upon the successful completion of the course

New Vision Specialized Careers

This course gives college bound high school seniors the opportunity to explore career choices not offered at the home school. Students will be placed in a customized career setting with a mentor. Experiences will include individualized training outlining specific program objectives. Potential careers include engineering, education, business, finance, journalism, television production and veterinarian science to name a few.

Credits: College credits available, in addition to the high school credits that will be met upon the successful completion of the course



Center for Instruction,
Technology & Innovation
Your education destination

AP Biology

The AP biology course is designed to be the equivalent of a college introductory biology course usually taken by biology majors during their first year. AP biology includes those topics regularly covered in a college biology course for majors. The college course in biology differs significantly from the usual first high school course with respect to the textbook used, the range and depth of topics covered, the laboratory work done by students, and the time and effort required. The kinds of labs done by AP students are the equivalent of those done by college students. This course provides students with the conceptual framework, factual knowledge and analytical skills necessary to deal critically with the rapidly changing science of biology. College credit may be earned by successful completion of the AP biology exam in May (all students must take this exam).

Exam Fee: \$93; *subject to change*

Prerequisites: Successful completion of biology Regents and chemistry Regents.

AP Physics 1

AP Physics 1 is a rigorous college-level course intended to provide students with an experience equivalent to the first semester of an introductory college-level physics course. The course will be designed around laboratory experiences, demonstrations, class discussion and assigned problem sets to prepare students for the AP physics 1 exam in May and the Regents physics exam in June.

Prerequisites: Successful completion of Algebra 2 and Regents Chemistry with a suggested grade of 85% for each course

Exam Fee: \$93; *subject to change*

AP US History

Learn the analytical and factual skills in American history from colonial to present times. The course culminates with a three-hour exam that is equivalent to a full year of an introductory college course. The AP American history exam is required.

Exam Fee: \$93; *subject to change*

AP Portfolio

The AP Portfolio for Studio Art in Drawing or 2D Design is a practical studio experience in which students will develop and create a portfolio of art work exhibiting a high level of quality and craftsmanship, mastery in a wide variety of media, technical skills and process, and competent use of design concepts and solutions. Throughout the year long course, students will be expected to develop an artistic voice and vocabulary, while developing a body of work that adheres to the AP College Board requirements. Students will need to be highly motivated and invest more than class time to the artistic process. This may include working on projects outside of class. The goal of the class is to submit a portfolio to the AP College Board evaluators or to prepare a portfolio for college art program entry.

Prerequisites: Successful completion of studio art, drawing

and painting, advanced drawing and painting, and 2D design

Exam Fee: \$93; *subject to change*

AP European History

The objective of this course is to increase students' understanding and appreciation of European history while helping each student succeed on the AP European history exam. This course will examine European history from 1350 to the present, focusing on the social, political, religious, intellectual, technological and economic developments throughout this period. These areas are studied from a variety of perspectives with the hope of providing a balanced view of history. This course is taught at the college level, which requires a greater amount of reading and expanded depth of focus. Moreover, the AP curriculum demands higher-order thinking skills within a rigorous academic context. Students are required to analyze, synthesize and evaluate primary and secondary historical resources, in addition to comprehending, memorizing and applying facts. These skills will be assessed through a number of tests, quizzes and assignments. The course culminates with a three-hour exam that is equivalent to a full year of an introductory college course, and may earn you college credit hours. An AP exam is required up-on completion.

Exam Fee: \$93; *subject to change*

A Powerful Partnership

The Onondaga College Credit Now program allows JCB students to get a jump start on college by earning college credit for the OCC courses below. The courses are delivered at JCB as part of a normal school day. Credits transfer to many other colleges and universities across NYS and throughout the country.

College English (ENG 103 and ENG 104)

A combination of freshman composition and literature are integrated throughout grade 12 rather than taught separately. A substantial amount of writing and reading are required of students who are recommended for this accelerated course. Requirements are rigorous, yet allow opportunity for individuals to develop their writing and technical control skills. Credit for this course is accepted by many colleges and universities across the country. The college experience provides students with an opportunity to develop valuable skills and the discipline necessary for college-level work. This course satisfies the requirement for English 12 credit.



College Credits: 6 (3 fall, 3 spring)

Prerequisites: Student must have achieved a passing score on the Accuplacer.

Cost: None

College Psychology (PSY 103 - Distance Learning)

This distance learning course is designed to give students an introduction to the concepts required for the study of perception, conditioning, learning, intelligence, motivations, emotions and personality. The interaction of heredity and environment is also stressed.

College Credits: 3

Cost: None

Pre-Calculus (MATH 143)

This full-year course is designed to offer pre-calculus topics to students in preparation for calculus the next year, whether in high school AP calculus or first year of college. While there is not a Regents at the end of the course, the material is considered to be Regents level.

Students must have an average of 75 or higher in the Algebra 2 class and a passing grade on the Algebra 2 Regents.

College Credits: 4

Cost: None

Calculus (MATH 161)

College-level calculus course for students completing all four years of high school math. Topics include derivatives, integrals, transcendental functions and analytical geometry.

Prerequisite: Pre-Calculus

College Credits: 4

Cost: None



The Cayuga Advantage

Cayuga Advantage is a partnership between Cayuga Community College and the PCSD in which students can earn credit for college courses taught at JCB. Eligible students must be at least 16 years old by Dec. 1 of the academic year in which they enroll. Only students who meet specific prerequisite requirements and have been recommended by a teacher or guidance counselor are eligible for enrollment in the program.

ART 250 Intro to Photography and Darkroom Techniques

This course introduces the basics of still photography. Students complete a number of assignments on the use of the 35mm camera system using a technical and aesthetic approach and learn photographic darkroom techniques producing finished prints for critique.

College Credits: 3

Eligibility: Juniors and seniors

Cost: None

ART 253 Digital Photography

Students will acquire skills needed to fully operate and control a digital single lens reflex camera, digital image editing software and full color photographic printers. As in other art courses students will complete image assignments which will be critiqued in class.

College Credits: 3

Eligibility: Juniors and seniors

Cost: None

BUS 225 Micro Computer Application Software

Students considering this course should have familiarity with Windows menus and creating,

saving and printing files. The class covers microcomputer hardware, the Windows operating system and its file management capabilities, and features and functions of application programs for word processing, electronic spreadsheets, database management and presentation graphics. Curriculum is based on the core competencies required for Microsoft Office Specialist certification.

Prerequisites: Keyboarding/ Computer Projects or equivalent skills with MS Office.

College Credits: 3

Math 104

This course is designed for seniors who are refining their math skills for college. Topics include algebraic functions, rationales, exponentials, logarithms and trigonometry functions. Emphasis will be placed on applications of trigonometry to triangles and vectors. A scientific calculator is required.

College Credits: 3

Prerequisite: Passing score on Accuplacer

French 103 Intermediate French I

Reviews and refines understanding of the structures of French; broadens the speaking and reading vocabulary and comprehension, and develops writing ability. Emphasis is on communication. Films, interactive videos, tapes, readings, word processing and computer programs are used as support materials. Recommended for students with a year of college French, high school Regents French, or two strong years of high school French.

College Credits: 3

Cost: None

Spanish 103 Intermediate Spanish I

Designed to improve the student's ability to understand, speak, read and write Spanish through a review of grammar, readings and videos dealing with significant aspects of Hispanic civilization, people and culture.

Prerequisites: A score of 80 or above on the checkpoint B exam; a final average of 80 or higher in Spanish 3; or a recommendation from the Spanish 3 instructor.

College Credits: 3

Cost: None

Distance Learning

Phoenix Central Schools is planning to partner with CiTi BOCES to offer students the opportunity to earn college credit via televised content and computer-based learning opportunities.

Courses are bundled together to maximize a student's schedule. Students do not have to take all courses in each bundle. Students have the ability to choose one or as many courses as they can accommodate. By taking 1 hours and 15 minutes every day, a student can earn up to 20 college credits in 1 year via Distance Learning.

The courses that will be offered next year are listed at the right. Contact your counselor for details about the offerings for the 2018-19 school year.

Thinking of College?

While the Internet may supply a seemingly never-ending list of college resources, that can be overwhelming to sift through. For our Phoenix students pursuing a college degree, we encourage you to visit the some of the following resources:

The College Board is a nonprofit organization that provides information targeting college-bound students. Its mission is to connect students to college success and opportunity.

Peterson's offers a plethora of information for students who are preparing for college. It provides financial aid information, deadline dates, scholarship information and essay help.

Affordable Online Colleges - New York provides tools for high school students to research post-secondary options. Resources include financial aid guidebooks, accredited college search tools and a listing of colleges and universities in New York that offer online degree programs.

Cappex makes college searches simple by providing detailed information about college admissions and scholarships.

CareerZone allows students to explore careers related to their strengths, skills and talents.

Distance Learning Course Offerings**Medical Bundle: (Video Interactive)**

FALL - BIO 203 - Anatomy & Physiology 1

FALL - PSY 101 - Introductory Psychology

SPRING - BIO 204 - Anatomy & Physiology 2

SPRING - PSY 212 - Developmental Psychology: Life Span

Criminal Justice Bundle: (Video Interactive)

FALL - CJ 111 - Introduction to Justice Systems

FALL - SOC 101 - Introductory Sociology

SPRING - CJ 220 - Criminology

SPRING - PSY 101 - Introductory Psychology

American Sign Language Bundle: (Video Interactive)

FALL - ASL 101 - American Sign Language 101

FALL - ANT 152 - Introduction to Cultural Anthropology

SPRING - ASL 102 - American Sign Language 102

SPRING - PHI 108 - Philosophy - Ethics

General Studies Bundle: (Video Interactive)

FALL - PHI 101 - Introduction to Philosophy

FALL - GEN 152 - General Studies: Human Adjustment

SPRING - COM 210 - Public Speaking

SPRING - GEN 154 - General Studies: Comparative Vocational Planning

Business Bundle: (ONLINE)

Fall - BUS 103 - Principles of Business

Intersession - BUS 204 - Marketing

Spring - BUS 150 - Business Communication

Summer - BUS 200 - Principles of Management

Non-Bundled Courses:

FALL: COM 130 - Human Communications

FALL: PE 170 - Sports Management

Intersession: BIOL 209 - Basic Nutrition

Intersession: HLTH 104 - Personal Health

Spring: ENTR 200 - The Entrepreneurial Process

Spring: SOC 255 - The Impact and Implications of Social Media & Networking on a Global Society



Phoenix Central School District

116 Volney Street
Phoenix, NY 13135
www.phoenixcsd.org