

COURSIE CATAILOC



This course description listing is designed to provide students and their families with the necessary information to put together a well-rounded educational program at JCB High School. We encourage students to carefully consider a variety of educational options. Ideally, we want students to attain the knowledge and skills necessary to succeed in life. It is hoped that the learning experiences at JCB High School will encourage 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 enhance 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 environment. We encourage input from families. Call us at 695-1645 and we'll work together to build a strong 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.

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Tips and Resources

Our staff is here to address questions or concerns. Schedule an individual planning session with a school counselor.

Explore Career development opportunities through xello. world

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: nysedregents.org

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/guardians and school counselors, draw up a tentative four-year sequence of courses.

A comprehensive academic program will be planned carefully to ensure that it meets graduation requirements and provides preparation for the student's long-range goals. Students will 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 work 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 in 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

Computer literacy

Choosing courses in art, business, technology and music. The Center for Instruction, Technology & Innovation (CiTi) in Mexico is another option 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

Computer literacy

College-level enrichment

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).





THE ROAD TO GRADUATION

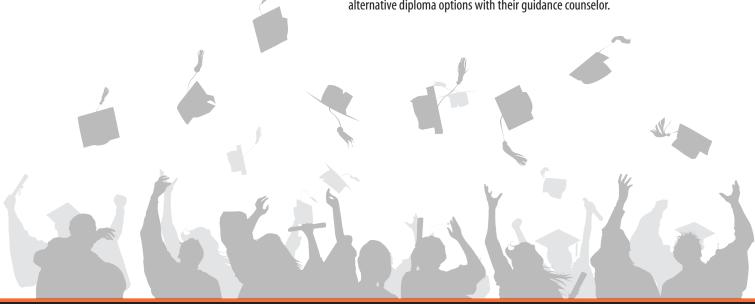
Graduation Requirements

A total of 22 units are required for graduation from JCB High School.

Regents Diploma

English	4 credits
Social Studies	4 credits
Math	3 credits
Science	3 credits
(one of which must be Living Environment)	
Foreign Language	1 credit
Fine Arts	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 required 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
Fine Arts	1 credit
Health	½ credit
Physical Education	2 credits
Electives	1½ credits
Total	22 credits

To qualify for a Regents with Advanced Designation, all students must obtain 65% or above on 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 or have a 5-unit sequence in fine arts, business, or technology.

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

One English Regents Exam

One Math Regents Exam

One Social Studies Regents Exam

One Science Regents Exams

One Additional Regents Exam or Pathway assessment

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

One additional Regents Exam in Science

Graduation Planning

Identify post-high school employment and/or educational goals.

Determine the course requirements necessary to achieve your post-high school employment 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 career and/ or educational goals.

Select courses 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.

Note: Students may be able to use their CiTi course exam to replace one Regents exam. See your counselor for details.



ENGLISH

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

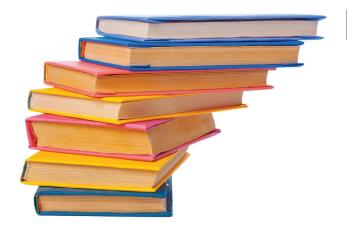
This course will be a challenging course that allows students the opportunity to read a wonderful assortment of literature; the Science Fiction, Fantasy, Realistic Fiction and Drama genres will be covered. Students will be expected to participate in class discussions focusing on their in-depth readings 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.

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 may include Renaissance, modern British literature and multicultural literature. During the second semester, the students are responsible for writing a research paper that follows MLA format. Students will also be required to complete multiple independent reading projects throughout the year. Additionally, the course 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. "Students in 12th grade should experience a balance of literature and informational texts in the context of instruction designed to create opportunities for learners to engage with a variety of topics and texts, and have discussions about texts that support language development and knowledge building. Creating this learning environment for readers can take a variety of formats, including shared readings, paired readings, independent readings and other learning activities that incorporate literacy materials, talking and writing." (NextGen ELA Standards, 2017)

ENG 103

Emphasizing the recursive nature of writing and the process of revision, this course teaches students the skills and processes necessary for writing and revising college-level academic prose. Various aspects of writing, including invention/pre-writing, composing, revision, and editing/proofreading will be taught. Critical readings of various nonfiction texts may be used to develop understanding of rhetorical conventions and genres. Composing in and for electronic environments, as well as their conventions, will also be taught.

Prerequisite(s): Student must have passing score on ELA regents exam of 80% or higher.

College Credits: 3
Cost: None

ENG 104

Teaches students to comprehend, respond to and use the ideas of others in their own writing. Skills such as analytic and critical reading and writing, summarizing, and paraphrasing are developed through the study of literature. Term paper form will also be taught.

Prerequisite(s): ENG 103

College Credits: 6 (3 fall, 3 spring)

Cost: None

Mythology: The Myth and Its Function - Elective

Mythology is a 12th grade elective examining mythologies from all over the world (from the standard Greek and Roman myths to the just as popular Egyptian, Norse, Asian and African myths).

Throughout this course, students will annotate text, take notes, participate in group presentations, engage in public speaking, delve into creative writing, and write their own hero's journey after exploring what exactly a hero's journey is. We will also look at modern mythology (Game of Thrones, Star Wars, Harry Potter, etc.) in the scope and context of the purpose of world mythology.

The skills this course will cultivate are designed for the real world, whether it be the world of work or the college community: critical reading, engaging discussions, public speaking and analyzing multiple genres of writing.

Credit: .5 high school credit

CRW 103 Introduction to Creative Writing

This is an introductory course focused on preparing students for the practice of writing fiction, poetry, creative nonfiction, and/or scriptwriting. Students learn to read as writers, develop an individual voice, recognize the craft of writing, and produce and critique their own and others' pieces. Required of all CRW majors.

Credit: .5 high school credit **College Credits**: 3

Cost: None



SOCIAL STUDIES

COURSE OFFERINGS

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.

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

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.



US History Honors

American history, with a focus on the post Civil War era to the present. The problems of a dynamic industrial society in a technology-oriented world will be studied. Additionally, a great deal of emphasis will be placed on improving student's writing and speaking skills in the realm of studying American history.

Prerequisite: 85% or higher in Global History 10 and teacher recommendation

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.

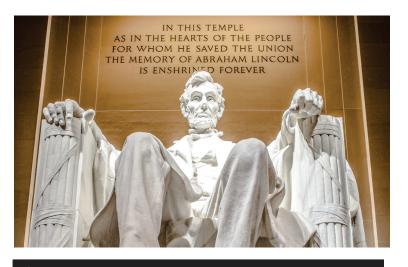
Prerequisite: Students must earn a final average of 85 or higher in Global 9 in order to enroll in this course.

Exam Fee: \$96; 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: .5 high school credit



Government

This is a senior course that 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.

Credit: .5 high school credit

Economics

Throughout the course, students will gain a general understanding of economics and we will begin to examine concepts of macroeconomics, microeconomics, as well as the issues surrounding our economic system in the USA and how economics play a role in our daily lives. Topics include taxes, spending, GNP, inflation, unemployment, fiscal and monetary policy, business structure, supply and demand, and personal finance.

Credit: .5 high school credit

Sociology

Sociology is the study of human social behavior, especially the study of the origins, organization, institutions and development of human society. Throughout this class, we will explore themes that create and define our culture, including socialization, societal structures, deviance, social inequality and social institutions.

Credit: .5 high school credit





SCIENCE

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.

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. In order to be eligible to participate in the regents examination, students must earn a minimum of 1200 minutes of lab experience.

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. In order to be eligible to participate in the regents examination, students must earn a minimum of 1200 minutes of lab experience.

Prerequisites: 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. In order to be eligible to participate in the regents examination, students must earn a minimum of 1200 minutes of lab experience.

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.

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.

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.

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 both the Earth Science and Living Environment Regents Exams. They should also have passed any 2 Regents-level math courses and the connected Regents exams.

Regents Physics

Regents Physics is a science course designed for 11th and 12th graders. It is recommended for any student who is planning on attending college or is interested in any type of scientific or technical career.

Physics is the study of motion and the rules of nature. In order to gain a greater appreciation and understanding of these rules we will do a large number of hands-on lab experiences. These labs typically include using a slinky to model wave motion, dropping eggs off the staircase to investigate collisions, using marble launchers to investigate the motion of projectiles, hitting a bowling ball around the classroom to investigate forces, pushing my car across the parking lot to investigate energy, and many more. Using algebra to solve problems is a major topic throughout the course, so we will work as a team to refresh and build any required math skills throughout the year. Topics we will investigate include: motion, forces, momentum, energy, waves, electricity, magnetism, and modern physics. This course has a laboratory component as the New York State requirement for admittance to the Regents Exam, and therefore meets on a 3 out of 4 day rotation pattern.

Prerequisites: Successful prior completion of two Regents Science Courses and two Regents Math Courses.

OCC College Physics 103

OCC Physics 103 is a college-level science course designed for 11th and 12th graders through OCC College Credit Now. It is the first semester of a non-calculus General Physics course emphasizing fundamental concepts and principles with a problem-solving approach. It is recommended for any student who is planning on attending college or is interested in any type of scientific or technical career.

Physics is the study of motion and the rules of nature. In order to gain a greater appreciation and understanding of these rules we will do a large number of hands-on lab experiences. These labs typically include using a slinky to model wave motion, dropping eggs off the staircase to investigate collisions, using marble launchers to investigate the motion of projectiles, hitting a bowling ball around the classroom to investigate forces, pushing my car across the parking lot to investigate energy, and many more. Using algebra to solve problems is a major topic throughout the course, so we will work as a team to refresh and build any required math skills throughout the year. Students will take the OCC Physics 103 final exam in April.

Prerequisites: Successful prior completion of two Regents Science Courses and two Regents Math Courses, one of which must be Algebra 2.

College Credits: 4
Cost: None

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).

Prerequisites: Successful completion of biology Regents and chemistry Regents.

Exam Fee: \$96; subject to change



OFFERINGS

MATHEMATICS

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

The first of a three-year sequence in math is primarily an algebra course, emphasizing linear relationships, functions, polynomials, quadratics, systems of equations, rational and radical expressions. 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. Course concludes with the Algebra 1 Regents exam.

Algebra 2

The second of the three-year sequence in math expands on algebra and trigonometry, introduces algebraic fractions with binomial denominators, complex numbers, and exponential/logarithmic functions. Course concludes with the Algebra 2 Regents exam.

Geometry

The third of the three-year sequence in math emphasizes plane and Euclidean geometric relationships and proofs with logic, as well as indirect and coordinate proofs. Course concludes with the Geometry Regents exam in June.

Intermediate Algebra

This course is designed to be a bridging course between Algebra 1 and Algebra 2. Students are presented with an opportunity to strengthen Algebra 1 skills while learning many key concepts that will foster success in Algebra 2.

Consumer Math

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.



Math 104 College Algebra

This course is designed for upperclassmen who are refining their math skills for college. Topics include algebraic functions, rationals, exponentials, logarithms and trigonometry functions. Emphasis will be placed on expanding on our current knowledge of Algebra topics. A scientific calculator is required.

Prerequisite: Algebra 2 Regents final average and regents exam score greater than 70%

College Credits: 3
Cost: None

Math 214 College Statistics

This course is designed for upperclassmen who are interested in expanding their statistical knowledge in preparation for college or their future career.

Topics include data collection, data analysis, probability, and hypothesis testing. Emphasis will be placed on real world statistical applications. A scientific calculator is required.

Prerequisite: Algebra 2 Regents final average and regents exam score greater than 70%

College Credits: 3
Cost: None

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.

 $\begin{tabular}{l} \textbf{Prerequisites:} & 66\% & or higher in Algebra I and Geometry, 72\% or higher in Algebra II \\ \end{tabular}$

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





WORLD LANGUAGES

World Languages

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 201

French 1

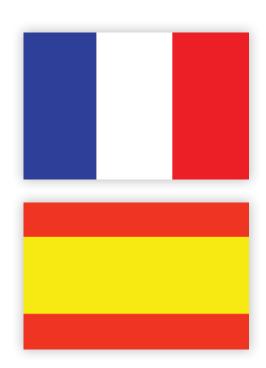
In this course, students will explore topics covered in grades 7 and 8, including introductory French (the basics), school, family and home, personal identification, shopping and clothes, leisure activities, and food. Students will be expected to increase their competency in reading, writing, listening to, and speaking French. At times, we may use the text "Discovering French; Bleu 1." Ancillary teacher-designed material will supplement authentic and other professional resources.

French 2

Students will continue to work with selected topics presented in French I in greater depth in all skill areas. These topics will include personal identification, weekend activities, food (meals, restaurants, markets), entertainment, and sports and health. Students will be expected to increase their competency in reading, writing, listening to, and speaking French. Students will also be exposed to the Francophone world, history, geography, current events and the arts. The text for this course will be "Discovering French Today; Blanc 2"— units 1-3. Ancillary teacher-designed material will supplement authentic and other professional resources.

French 3

Students continue to work with selected topics presented in French II in greater depth in all skill areas. This will include developing linguistic competence through communicative activities using the present, past, future and conditional verb tenses. Topics covered will include leisure activities, sports and health, house and home, clothing and shopping, vacation and traveling. Emphasis will also be placed on the Francophone world, including history/culture, the arts and current affairs. The text for this course will be "Discovering French Today; French 2" — units 4-9. Ancillary teacherdesigned material will supplement authentic and other professional resources. This course will culminate with a final exam similar in scope to the former New York State (Regents) Comprehensive Examination in French.



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.

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.

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 103 Intermediate French I

The goal of this course is to review and refine understanding of the structures of French, and to broaden speaking, writing, reading, and listening skills in the target language. In addition, students will focus on the culture of France and the broader Francophone world through exposure to films, art, poetry, literature, music, history, and current events. French 103 is recommended for students with a year of college French, high school Regents French, or two strong years of high school French. Upon completion of this course, students should have: an increased ability to understand and use spoken and written French, and an increased level of knowledge regarding the Francophone world.

College Credits: 3

Cost: None

Spanish 201 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





BUSINESS

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.



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: .5 high school credit

Entrepreneurship

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: .5 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

Business Math

This course is an introduction to basic accounting with the addition of topics including personal finance, establishing a positive credit score, and preparing for future financial health. This course can be used as a third year of mathematics.

Credit: 1 high school credit

Career and Financial Management

This course introduces how the business world functions, how students might match their talents with particular careers, and how students can meet their financial desires through continued study and work experiences.

Credit: .5 high school credit

College and Career Computer Applications

This course introduces students to key computer applications used in both college and careers. Students will gain a deeper understanding of Microsoft Word, PowerPoint, Excel, Google Docs, Interactive Websites, and the Google Platform, in addition to various other technology skills (troubleshooting, file management, and web research) needed to excel both during and after high school. Hands-on project-based exercises will be designed to broaden student knowledge of each platform.

Credit: .5 high school credit



TECHNOLOGY

COURSE OFFERINGS



Technology

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

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: .5 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: .5 high school credit

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: .5 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

Introduction to Robotics

This course is an introduction to robotics. Students will utilize engineering skills and engineering problem-solving using the VEX Robotics Design System. Students will be given systematic challenges to solve while implementing the following: application of power transmission, drivetrain design, lifting mechanisms, system integration and object manipulation. Students will design, test and evaluate their own robotic creations.

Credit: .5 high school credit

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: .5 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: .5 high school credit

PLTW-Introduction to Engineering Design/DDP

Introduction to Engineering Design is an introductory course, which develops student problem solving skills, with emphasis placed upon the concept of developing a 3-D model or solid rendering of an object. Students focus on the application of visualization processes and tools provided by modern, state of-the-art, computer hardware and software. (DDP/PLTW may be used as an art requirement).

Credits: 1 high school credit

PLTW - Principles of Engineering

This is a broad-based survey course designed to help students understand the field of engineering and engineering technology and its career possibilities. Students will develop engineering problem solving skills that are involved in post-secondary education programs and engineering careers. They will explore various engineering systems and manufacturing processes. The main purpose of this course is to experience through theory and hands-on problem-solving activities what engineering is and "Is a career in engineering or engineering technology for me:"

Credits: 1 high school credit

PLTW - Computer Integrated Manufacturing

Manufactured items are part of everyday life, yet most students have not been introduced to the high-tech, innovative nature of modern manufacturing. This course illuminates the opportunities related to understanding manufacturing. At the same time, it teaches students about manufacturing processes, product design, robotics, and automation.

Credits: 1 high school credit



MUSIC

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. The chorus also goes on trips for performances and educational tourism. 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 extracurricular activities which include sing-outs, talent shows, and various theatrical endeavors throughout the year.

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 four-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, NYSBDA 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.

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. This course has enrollment from all high school grades, however it is designed for, and targeted to, high school upper classmen. This course utilizes an unstructured and highly participatory learning environment. Incoming freshmen who would like to take the course should be at a higher level of maturity and personal responsibility to make this a meaningful experience for themselves and their classmates.







ART

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 ranging from two-dimensional to three-dimensional. Projects included range from still-life, portrait drawing, abstract painting and perspective scenes, to installation art and sculpture. Introduction into traditional and contemporary 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 gains 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 and Painting, Advanced

Drawing and Painting Grade Level: 11th and 12th Course Length: Full year

AP Portfolio

The AP Portfolio for Studio Art in Drawing or 20 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: \$96; subject to change

Visual Arts 1 & 2

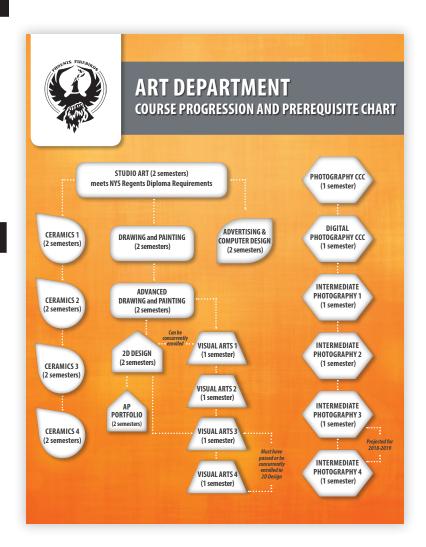
Advanced course for students who wish to work on portfolio pieces for college admissions. Students will explore inner artistic talents and focus on one's main interests in art as well as explore new techniques/ideas. Students will work on furthering their skills and techniques for higher quality work 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 20 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.

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

Ceramics & Sculpture 1

Designed for the beginner student as an introduction to the field of ceramics. Course focuses on basic skills and techniques of ceramics, beginning with handbuilding then progressing to throwing on the potter's wheel. Students will learn and employ safe studio procedures while understanding the basics of manipulating clay and applying glazes. All projects address a variety of NYS Visual Art Standards and focus on aspects of creating, presenting, reflecting, and connecting.

Prerequisite: Successful completion of Studio Art with a Teacher Recommendation from their Studio Art Teacher.

Ceramics & Sculpture 2

Designed for the intermediate student who has mastered the basic skills and techniques introduced in Ceramics & Sculpture 1. Students will review the hand-building and throwing processes while further developing their knowledge through conceptual and functional projects. Students will focus on critical thinking, problem-solving through clay and mixed media, and experimenting with glazes. All projects address a variety of NYS Visual Art Standards and focus on aspects of creating, presenting, reflecting, and connecting.

Prerequisite: 80 or above in Ceramics & Sculpture 1 with a Teacher Recommendation. Must exhibit mastery of basic skills and studio procedures.

Ceramics & Sculpture 3

Designed for students who excelled in Ceramics & Sculpture 2 and mastered the intermediate skills and techniques introduced. Students will be enhancing their ceramic handbuilding and throwing skills through conceptual, traditionally functional work, and object design. Students will be introduced to advanced techniques while continuing to expand upon their critical thinking and problem-solving skills. Projects will push the boundaries of traditional ceramic construction by focusing on form, function, and the incorporation of non-firable materials. All projects address a variety of NYS Visual Art Standards and focus on aspects of creating, presenting, reflecting, and connecting.

Prerequisite: 80 or above in Ceramics & Sculpture 2 with a Teacher Recommendation. Must exhibit mastery of intermediate skills and studio procedures.

Ceramics & Sculpture 4

Designed for the independent student who is looking to make a final body of work which represents their mastery in ceramics. Students will focus on the mastery of construction, surface techniques, individual aesthetic, and conceptual content in clay and mixed media. Students will apply critical criteria for improving their works and meet with the teacher for additional guidance in developing ideas and expanding knowledge. All projects address a variety of NYS Visual Art Standards and focus on aspects of creating, presenting, reflecting, and connecting.

Prerequisite: 80 or above in Ceramics & Sculpture 3 with a Teacher Recommendation. Must exhibit mastery of advanced skills and studio procedures.



PHYSICAL EDUCATION AND HEALTH





Physical Education

Students in grades 9 through 12 are provided a program in physical education that complies with the New York State Commissioner's Regulations. The physical education program complements all other district content areas and integrates the Phoenix district standards, along withthe New York state learning standards for physical education, and the (NASPE) National Standards for Physical Education. The mission of the JCB physical education program is to encourage all students to sustain regular, lifelong physical activity as a foundation for a healthy, productive and fulfilling life. Students are provided with a learning environment that is modified, when necessary, to allow for maximum participation.

Phoenix high school is proud to offer a selective physical education program that allows students the opportunity to choose the activities that they will participate in. Although the emphasis is on lifelong fitness, team activities/sports are also offered.

Physical education is a required course for graduation. Successful participation for four years will meet local and state mandates, as well as graduation requirements.

EXCELLED PHYSICAL EDUCATION

This course is designed for students in grades 9-12 who are seeking a more rigorous physical education class. This class will focus on fitness, strength and conditioning and overall wellness while incorporating traditional physical education concepts. The class will meet every-other day for the entire school year and meets the requirement for one year of physical education toward graduation.

Prerequisite: Students must have played at least two sports the previous year and must continue to play at least two sports throughout the current school year.

Purpose of the Class:

- **1.** To allow student-athletes an opportunity to work on building strength, endurance, agility and conditioning during the school day. This class will help provide students with the tools necessary to help them become a better athlete and more competitive in scholastic sports.
- **2.** To increase participation in extracurricular activities by encouraging one-sport athletes to become multiple-sport athletes.

Curriculum: Each class will consist of two parts. One part of the class will focus on different individual and team sports with emphasis on advanced concepts, strategies and game play. The second part of the class will be dedicated toward strength training, agility workouts, conditioning and fitness activities. Guest speakers and presenters will be used throughout the year to discuss different topics such as nutrition, mental preparation, and overall health and wellness for athletes.

Health

In an effort to prepare and empower students to value and engage in lifelong healthy lifestyles, the mission of Phoenix Health Education is to provide students opportunities to learn functional health information and develop essential health skills necessary to adopt, practice and maintain lifelong health-enhancing behaviors.



PROJECT LEAD THE WAY COURSES

PLTW - Computer Science Essentials

This course is designed to be an introductory computer science course. It is a fun, foundational course that helps prepare students for success in the PLTW Computer Science program. In PLTW Computer Science Essentials, students will experience the major topics, big ideas, and computational thinking practices used by computing professionals to solve problems and create value for others. They will use a visual programming language and advance to text-based programming. Throughout the course, students will have opportunities to apply computational thinking practices and collaborate just as computing professionals do to create products that address topics and problems important to them. This is a hands-on course. Students will work in teams to create solutions and problem-solve.

Credits: 1 high school credit

PLTW - Computer Science Principles

Using Python® as a primary tool, students explore and become inspired by career paths that utilize computing, discover tools that foster creativity and collaboration, and use what they've learned to tackle challenges like app development and simulation. This course is endorsed by the College Board, giving students the opportunity to take the AP Computer Science Principles exam for college credit.

Credits: 1 high school credit

PLTW - Cybersecurity

Cybersecurity introduces the tools and concepts of cybersecurity and encourages students to create solutions that allow people to share computing resources while protecting privacy. Nationally, computational resources are vulnerable and frequently attacked; in Cybersecurity, students solve problems by understanding and closing these vulnerabilities. This course raises students' knowledge of and commitment to ethical computing behavior. It also aims to develop students' skills as consumers, friends, citizens, and employees who can effectively contribute to communities with a dependable cyber-infrastructure that moves and processes information safely.

Credits: 1 high school credit

PLTW-Introduction to Engineering Design/DDP

Introduction to Engineering Design is an introductory course, which develops student problem solving skills, with emphasis placed upon the concept of developing a 3-D model or solid rendering of an object. Students focus on the application of visualization processes and tools provided by modern, state of-the-art, computer hardware and software. (DDP/PLTW may be used as an art requirement).

Credits: 1 high school credit

PLTW - Principles of Engineering

This is a broad-based survey course designed to help students understand the field of engineering and engineering technology and its career possibilities. Students will develop engineering problem solving skills that are involved in post-secondary education programs and engineering careers. They will explore various engineering systems and manufacturing processes. The main purpose of this course is to experience through theory and hands-on problem-solving activities what engineering is and "Is a career in engineering or engineering technology for me:"

Credits: 1 high school credit

PLTW - Computer Integrated Manufacturing

Manufactured items are part of everyday life, yet most students have not been introduced to the high-tech, innovative nature of modern manufacturing. This course illuminates the opportunities related to understanding manufacturing. At the same time, it teaches students about manufacturing processes, product design, robotics, and automation.

Credits: 1 high school credit





OPPORTUNITIES THROUGH CITI BOCES

Thinking of College?

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

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

Peterson's (petersons.com) 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-(affordablecollegesonline.org) provides tools for high school students to research postsecondary 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 (cappex.com) makes college searches simple by providing detailed information about college admissions and scholarships.

Naviance (student.naviance.com/jcbhs) is the website available to all JCB students and their families to pursue career/college opportunities and process applications.

Distance Learning

Through the CiTi Distance Learning program, our students the opportunity to earn college credit via live interactive videoconferencing and online class opportunities.

Courses are bundled together to maximize a student's schedule. Students do not have to take all courses in each bundle, and they have the ability to choose from one to as many as four courses, depending on availability.

Contact your counselor for details about the offerings for next school year.

Career and Technical Education

CiTi BOCES programs provide high school students with an alternative method to learn about career areas of interest. Career exploration programs give 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 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, public justice 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



ADVANCED PLACEMENT COURSES

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).

Prerequisites: Successful completion of biology Regents and chemistry Regents. **Exam Fee:** \$96; 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: \$96; 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 upon completion.

Prerequisite: Students must earn a final average of 85 or higher in Global 9 in order to enroll in this course.

Exam Fee: \$96; subject to change

OCC CREDIT COURSES



English (ENG 103)

Emphasizing the recursive nature of writing and the process of revision, this course teaches students the skills and processes necessary for writing and revising college-level academic prose. Various aspects of writing, including invention/pre-writing, composing, revision, and editing/proofreading will be taught. Critical readings of various nonfiction texts may be used to develop understanding of rhetorical conventions and genres. Composing in and for electronic environments, as well as their conventions, will also be taught. This course satisfies the requirement for English 12 credit.

Prerequisites: Student must have passing score on ELA regents exam of 80% or higher.

College Credits: 3
Cost: None

English (ENG 104)

Teaches students to comprehend, respond to, and use the ideas of others in their own writing. Skills such as analytic and critical reading and writing, summarizing, and paraphrasing are developed through the study of literature. Term paper form will also be taught.

Prerequisites: Student must have passing score on ELA regents exam of 80% or higher.

College Credits: 3
Cost: None

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.

CRW 103 Introduction to Creative Writing

This is an introductory course focused on preparing students for the practice of writing fiction, poetry, creative nonfiction, and/or scriptwriting. Students learn to read as writers, develop an individual voice, recognize the craft of writing, and produce and critique their own and others' pieces. Required of all CRW majors.

Credit: .5 high school credit

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.

Prerequisites: 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

OCC College Physics 103

OCC Physics 103 is a college-level science course designed for 11th and 12th graders through OCC College Credit Now. It is the first semester of a non-calculus General Physics course emphasizing fundamental concepts and principles with a problem-solving approach. It is recommended for any student who is planning on attending college or is interested in any type of scientific or technical career.

Physics is the study of motion and the rules of nature. In order to gain a greater appreciation and understanding of these rules we will do a large number of hands-on lab experiences. These labs typically include using a slinky to model wave motion, dropping eggs off the staircase to investigate collisions, using marble launchers to investigate the motion of projectiles, hitting a bowling ball around the classroom to investigate forces, pushing my car across the parking lot to investigate energy, and many more. Using algebra to solve problems is a major topic throughout the course, so we will work as a team to refresh and build any required math skills throughout the year. Students will take the OCC Physics 103 final exam in April.

Prerequisites: Successful prior completion of two Regents Science Courses and two Regents Math Courses, one of which must be Algebra 2.

College Credits: 4

Cost: None



CCC CREDIT COURSES



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

Math 214 College Statistics

This course is designed for upperclassmen who are interested in expanding their statistical knowledge in preparation for college or their future career. Topics include data collection, data analysis, probability, and hypothesis testing. Emphasis will be placed on real world statistical applications. A scientific calculator is required.

Prerequisite: Algebra 2 Regents final average and regents exam score greater than

70%

College Credits: 3

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 school counselor are eligible for enrollment in the program.

Math 104 College Algebra

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 Accuplacer or > 70 average on Algebra 2 Regents class and exam.

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

French 103 Intermediate French I

The goal of this course is to review and refine understanding of the structures of French, and to broaden speaking, writing, reading, and listening skills in the target language. In addition, students will focus on the culture of France and the broader Francophone world through exposure to films, art, poetry, literature, music, history, and current events. French 103 is recommended for students with a year of college French, high school Regents French, or two strong years of high school French. Upon completion of this course, students should have: an increased ability to understand and use spoken and written French, and an increased level of knowledge regarding the Francophone world.



AP Courses	Dual-Enrollment/College-Level Courses		
A year-long course taught by a high school teacher	A semester or year-long course taught be either a college professor remotely, or a high school teacher		
Culminates in a standardized, required exam that is scored on a 1-5 scale, 5 being the highest score attainable	Final grade is the result of a semester's/year's worth of assignments and assessments that may or may not include a final exam		
Credit is generally awarded for a score of 4 or 5, some state colleges/ universities award credit with a score of 3	Credit is generally awarded for a final grade of "C" or higher		
Some elite and/or some private schools do not award credit for AP coursework but use it instead to assist in college course-level placement, especially when the course is considered within the student's intended major	Most state schools will award credit but sometimes as elective credit rather than courses within a student's major		
Highly selective universities sometimes consider AP courses more rigorous than dual enrollment courses, due to the required standardized testing format and curricula	Offers students the opportunity to earn college credits in a variety of courses not limited to those offered by College Board/AP		
Each test costs \$96, fee subject to change	No cost to students if dual enrollment paperwork is submitted completely and timely		
Generally requires students to complete summer reading and assignments prior to the beginning of classes	Assignments, readings, and lectures occur on the college calendar timeline only		



2023-2024



Phoenix Central School District

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