



JAPSER-TROUPSBURG CENTRAL SCHOOL
COURSE CATALOG

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English Language Arts

English/Language Arts I [1 credit]

General Description: English/Language Arts I courses build upon students' prior knowledge of grammar, vocabulary, word usage, and the mechanics of writing and usually include the four aspects of language use: reading, writing, speaking, and listening. Typically, these courses introduce and define various genres of literature, with writing exercises often linked to reading selections.

English/Language Arts II [1 credit]

General Description: English/Language Arts II courses usually offer a balanced focus on composition and literature. Typically, students learn about the alternate aims and audiences of written compositions by writing persuasive, critical, and creative multi-paragraph essays and compositions. Through the study of various genres of literature, students can improve their reading rate and comprehension and develop the skills to determine the author's intent and theme and to recognize the techniques used by the author to deliver his or her message.

English/Language Arts III [1 credit]

General Description: English/Language Arts III courses continue to develop students' writing skills, emphasizing clear, logical writing patterns, word choice, and usage, as students write essays and begin to learn the techniques of writing research papers. Students continue to read works of literature, which often form the backbone of the writing assignments. Literary conventions and stylistic devices may receive greater emphasis than in previous courses. At the end of the year, students are required to take the New York State ELA regents exam.

English/Language Arts IV [1 credit]

General Description: English/Language Arts IV courses blend composition and literature into a cohesive whole as students write critical and comparative analyses of selected literature, continuing to develop their language arts skills. Typically, students primarily write multi-paragraph essays, but they may also write one or more major research papers.

ACE (Accelerated College Education) English [1 credit]

General Description: The ACE English program is sponsored by Corning Community College for those exceptional senior English students who wish to earn college transfer credits while still attending high school. Seniors are invited by the teacher. Essay writing designed to sharpen the student's perceptions of the world through the study and use of non-fiction writings and to facilitate communications with correctness, clarity, unity, organization, and depth. Assignments include expository writing, argumentation, and research techniques. (2 semester course – earn 3 college credits per semester) [CCC - ENGL 1010 and ENGL 1020]

Social Studies

Global History & Geography I [1 credit]

General Description: This is the first course of the two year Global History sequence. World History—Overview courses provide students with an overview of the history of human society from early civilization to the contemporary period, examining political, economic, social, religious, military, scientific, and cultural developments. World History—Overview courses may include geographical studies, but often these components are not as explicitly taught as geography.

Global History & Geography II [1 credit]

General Description: This is the second course of the two year Global History sequence. In addition to covering the objectives of World History—Overview courses, World History and Geography courses provide an overview of world geography. These courses are often developed in response to increased national concern regarding the importance of geography, and they explore geographical concepts. At the end of the year, students are required to take the New York State Global History and Geography regents exam.

U.S. History [1 credit]

General Description: U.S. History—Comprehensive courses provide students with an overview of the history of the United States, examining time periods from discovery or colonialism through World War II or after. These courses typically include a historical overview of political, military, scientific, and social developments. Course content may include a history of the North American peoples before European settlement. At the end of the year, students are required to take the New York State U.S. History regents exam. *ACE Credit Available.*

Economics [1/2 credit]

General Description: Economics courses provide students with an overview of economics with primary emphasis on the principles of microeconomics and the U.S. economic system. These courses may also cover topics such as principles of macroeconomics, international economics, and comparative economics. Economic principles may be presented in formal theoretical contexts, applied contexts, or both. This course is taught in conjunction with Government.

Participation in Government [1/2 credit]

General Description: U.S. Government—Comprehensive courses provide an overview of the structure and functions of the U.S. government and political institutions and examine constitutional principles, the concepts of rights and responsibilities, the role of political parties and interest groups, and the importance of civic participation in the democratic process. These courses may examine the structure and function of state and local governments and may cover certain economic and legal topics. This course is taught in conjunction with Economics.

Spaceflight [1/2 credit]

General Description: Mankind's quest to explore space is much more exciting than you might imagine. In this class we will learn about how two nations that started as enemies now work together as friends to explore the final frontier as we journey back to the moon, Mars and beyond.

Women's History [1 credit]

General Description: This course will examine the experiences of women throughout history, with primary focus on the United States. Various key themes shaping women's roles in social, political, and economic life will be explored. Students will look at the lives of women involved in leadership roles as well as the contributions of not-so-famous and ordinary women.

American Civil War [1 credit]

General Description: Explore the causes and effects of the American Civil War from the 1840's – 1870's.

History in Media [1 credit]

General Description: This course will look at the accuracy of popular films (movies) and how these have influenced our knowledge of history.

ACE Federal Government [1/2 credit]

General Description: The ACE program is sponsored by Corning Community College. Theories and practices of American Federal Government with emphasis on the national level. Changing relationships between the branches of the national government, policy formulation, political parties, pressure groups, and the growth of presidential powers. (1 semester course – 3 college credits per semester) [CCC - GOVT 1010]

ACE U.S. History [1 credit]

Mathematics

Algebra I [1 credit]

General Description: Algebra I courses include the study of properties and operations of the real number system; evaluating rational algebraic expressions; solving and graphing first degree equations and inequalities; translating word problems into equations; operations with and factoring of polynomials; and solving simple quadratic equations. At the end of the year, students are required to take the New York State Algebra I regents exam.

Algebra I—Part 1 [1 credit]

General Description: The first part in a multi-part sequence of Algebra I. This course generally covers the same topics as the first semester of Algebra I, including the study of properties of rational numbers (i.e., number theory), ratio, proportion, and estimation, exponents and radicals, the rectangular coordinate system, sets and logic, formulas, and solving first degree equations and inequalities.

Algebra I—Part 2 [1 credit]

General Description: The second part in a multi-part sequence of Algebra I. This course generally covers the same topics as the second semester of Algebra I, including the study of properties of the real number system and operations, evaluating rational algebraic expressions, solving and graphing first degree equations and inequalities, translating word problems into equations, operations with and factoring of polynomials, and solving simple quadratics. At the end of the year, students are required to take the New York State Algebra I regents exam.

Algebra II [1 credit]

General Description: Algebra II course topics typically include field properties and theorems; set theory; operations with rational and irrational expressions; factoring of rational expressions; in-depth study of linear equations and inequalities; quadratic equations; solving systems of linear and quadratic equations; graphing of constant, linear, and quadratic equations; properties of higher degree equations; and operations with rational and irrational exponents. At the end of the year, students are expected to take the New York State Algebra II regents exam.

Geometry [1 credit]

General Description: Geometry courses, emphasizing an abstract, formal approach to the study of geometry, typically include topics such as properties of plane and solid figures; deductive methods of reasoning and use of logic; geometry as an axiomatic system including the study of postulates, theorems, and formal proofs; concepts of congruence, similarity, parallelism, perpendicularity, and proportion; and rules of angle measurement in triangles. At the end of the year, students are expected to take the New York State Geometry regents exam.

Pre-Calculus [1 credit]

General Description: Pre-Calculus courses combine the study of Trigonometry, Elementary Functions, Analytic Geometry, and Math Analysis topics as preparation for calculus. Topics typically include the study of complex numbers; polynomial, logarithmic, exponential, rational, right trigonometric, and circular functions, and their relations, inverses and graphs; trigonometric identities and equations; solutions of right and oblique triangles; vectors; the polar coordinate system; conic

sections; Boolean algebra and symbolic logic; mathematical induction; matrix algebra; sequences and series; and limits and continuity.

College Calculus [1 credit]

General Description: Calculus courses include the study of derivatives, differentiation, integration, the definite and indefinite integral, and applications of calculus. Typically, students have previously attained knowledge of pre-calculus topics (some combination of trigonometry, elementary functions, analytic geometry, and mathematic analysis). Prerequisite: Students must complete pre-calculus to be enrolled in the class. Course meets SUNY General Education requirement in Mathematics. (2 semester course – earn 4 college credits per semester) [CCC - Math 1610 and Math 1620]

Business Math [1 credit]

General Description: Business Math courses reinforce general math skills, emphasize speed and accuracy in computations, and use these skills in a variety of business applications. Business Math courses reinforce general math topics (e.g., arithmetic, measurement, statistics, ratio and proportion, exponents, formulas, and simple equations) by applying these skills to business problems and situations; applications might include wages, hourly rates, payroll deductions, sales, receipts, accounts payable and receivable, financial reports, discounts, and interest.

Visual Mathematics [1 credit]

General Description: The main focus of this class will be working with a compass and straight edge. We will start with simple constructions, i.e. bisectors, copying shapes, and constructing special triangles. We will then move on to more elaborate, beautiful constructions, such as those found in crop circles. With time permitting, we will use these constructions to assist us in proving mathematical theorems. This will be a project-based class.

Sciences

Earth Science [1 credit]

General Description: This course involves meteorology, geology, and astronomy. It deals with the composition of the earth, forces acting upon the earth's crust and interior, the nature and motion of celestial bodies and their relationship to the earth, and the study of weather and climate. Students will be expected to take the Earth Science Regents exam at the end of the course. Laboratory work is essential for the completion of the course and admission to the Regents exam.

Living Environment/Biology [1 credit]

General Description: Biology courses are designed to provide information regarding the fundamental concepts of life and life processes. These courses include (but are not restricted to) such topics as cell structure and function, general plant and animal physiology, genetics, and taxonomy. Students will be expected to take the Living Environment/Biology Regents exam at the end of the course. Laboratory work is essential for the completion of the course and admission to the Regents exam.

Historical Geology [1 credit]

General Description: Geology courses provide an in-depth study of the forces that formed and continue to affect the earth's surface. Earthquakes, volcanoes, and erosion are examples of topics that are presented.

Environmental Science [1 credit]

General Description: Environmental Science courses examine the mutual relationships between organisms and their environment. In studying the interrelationships among plants, animals, and humans, these courses usually cover the following subjects: photosynthesis, recycling and regeneration, ecosystems, population and growth studies, pollution, and conservation of natural resources.

Anatomy and Physiology [1 credit]

General Description: Taken after a comprehensive initial study of biology, Anatomy and Physiology courses present the human body and biological systems in more detail. In order to understand the structure of the human body and its functions, students learn anatomical terminology, study cells and tissues, explore functional systems (skeletal, muscular, circulatory, respiratory, digestive, reproductive, nervous, and so on), and may dissect mammals. Laboratory work is essential for the completion of the course.

Chemistry [1 credit]

General Description: Chemistry courses involve studying the composition, properties, and reactions of substances. These courses typically explore such concepts as the behaviors of solids, liquids, and gases; acid/base and oxidation/reduction reactions; and atomic structure. Chemical formulas and equations and nuclear reactions are also studied. Students will be expected to take the Chemistry Regents exam at the end of the course. Laboratory work is essential for the completion of the course and admission to the Regents exam.

ACE Chemistry [1 credit]

General Description: The ACE program is sponsored by Corning Community College. The course involves principles of chemistry and its constructive aspects. Stoichiometry, characteristics of matter,

structure and bonding, elementary thermochemistry, solutions, equilibrium, thermodynamics, and electrochemistry. Descriptive chemistry is integrated throughout the course. Laboratory work is essential for the completion of the course. Prerequisite: 65% or higher on the high school Chemistry Regents Exam and completion of a math course equivalent to Algebra II/Trigonometry. Intended for, but not limited to, math/science students. It is recommended that students be familiar with algebraic and logarithmic calculations; high school physics is strongly suggested as a co-requisite. Meets general requirement in National Sciences for Corning Community College and transfers to most colleges. (2 semester courses – earn 4 college credit hours per semester). [CCC – CH 1510 and CH 1520]

Physics [1 credit]

Physics courses involve the study of the forces and laws of nature affecting matter, such as equilibrium, motion, momentum, and the relationships between matter and energy. The study of physics includes examination of sound, light, and magnetic and electric phenomena. Students will be expected to take the Physics Regents exam at the end of the course. Laboratory work is essential for the completion of the course and admission to the Regents exam.

Meteorology [1/2 credit]

General Description: Meteorology courses examine the properties of the earth's atmosphere. Topics usually include atmospheric layering, changing pressures, winds, water vapor, air masses, fronts, temperature changes and weather forecasting.

Languages Other Than English (LOTE)

Spanish I [1 credit]

General Description: Designed to introduce students to Spanish language and culture, Spanish I courses emphasize basic grammar and syntax, simple vocabulary, and the spoken accent so that students can read, write, speak, and understand the language at a basic level within predictable areas of need, using customary courtesies and conventions. Spanish culture is introduced through the art, literature, customs, and history of Spanish-speaking people.

Spanish II [1 credit]

General Description: Spanish II courses build upon skills developed in Spanish I, extending students' ability to understand and express themselves in Spanish and increasing their vocabulary. Typically, students learn how to engage in discourse for informative or social purposes, write expressions or passages that show understanding of sentence construction and the rules of grammar, and comprehend the language when spoken slowly. Students usually explore the customs, history, and art forms of Spanish-speaking people to deepen their understanding of the culture(s).

Spanish III [1 credit]

General Description: Spanish III courses focus on having students express increasingly complex concepts both verbally and in writing while showing some spontaneity. Comprehension goals for students may include attaining more facility and faster understanding when listening to the language spoken at normal rates, being able to paraphrase or summarize written passages, and conversing easily within limited situations.

ACE Spanish [1 credit]

General Description: The ACE program is sponsored by Corning Community College. Development of facility in reading, writing, speaking and understanding the language through a systematic review of its structure. Representative readings as an introduction to Spanish civilizations. A thorough analysis of the language; intensive discussion of grammar, usage, style and vocabulary, enhancing expression through composition, oral reports and more informed class discussions and conversations. (2 semester course – earn 4 credit hours per semester) [CCC – SPAN 2010 and SPAN 2020]

Spanish V [1 credit]

General Description: Spanish V courses extend students' facility with the language so that they are able to understand, initiate, and sustain general conversations on topics beyond basic survival needs. Reading and writing tasks will usually include all normal verb tenses (present, past, and future).

Fine Arts

Drama—Theatre [1/2 credit]

General Description: Drama—Acting/Performance courses are intended to promote students' experience and skill development in one or more aspects of theatrical production, but they concentrate on acting and performance skills. Initial courses are usually introductory in nature, while the more advanced courses focus on improving technique, expanding students' exposure to different types of theatrical techniques and traditions, and increasing their chances of participating in public productions.

Senior High Band [1/2 credit]

General Description: General Band courses develop students' technique for playing brass, woodwind, and percussion instruments and cover a variety of nonspecified band literature styles (concert, marching, orchestral, and modern styles).

Senior High Chorus [1/2 credit]

General Description: Chorus courses provide the opportunity to sing a variety of choral literature styles for men's and/or women's voices and are designed to develop vocal techniques and the ability to sing parts.

Jazz Band [1/2 credit]

General Description: Courses in Concert Band are designed to promote students' technique for playing brass, woodwind, and percussion instruments and cover a variety of band literature styles, primarily for concert performances. Students must be invited to participate in Jazz Band.

Music Theory I [1/2 credit]

General Description: Music Theory courses provide students with an understanding of the fundamentals of music and include one or more of the following topics: composition, arrangement, analysis, aural development, and sight reading.

Music Theory II [1/2 credit]

General Description: Music Theory courses provide students with an understanding of the fundamentals of music and include one or more of the following topics: composition, arrangement, analysis, aural development, and sight reading. This course will go further in depth and explore in more detail topics covered in Music Theory I. This class is student driven. Prerequisite: Music Theory I.

Music Appreciation [1/2 credit]

General Description: Similar in nature to Music History/Appreciation courses, Music Appreciation courses focus specifically on students' appreciation of music. They are designed to help students explore the world of music and to develop an understanding of the importance of music in their lives.

General Music [? Credit]

Introductory to Guitar [1/2 Credit]

General Description: Students learn basic guitar skills, chords, melody, and guitar theory. Students will also learn how to read music. Students must have their own guitar.

Studio Art [1/2 credit or 1 credit]

General Description: Entry level art class providing students with a broad range of projects, media, and opportunities to explore, develop skills, and gain understanding and appreciation of art in our lives. No prior art skills necessary.

Advanced Art [1/2 credit or 1 credit]

General Description: Offers students the opportunity to further develop art skills across a range of media as well as a more concentrated study in the development of his/her personal style and technique. Prerequisite: Studio Art.

Agriculture

Animal Science [1/2 credit]

General Description: Animal Production/Science courses impart information about the care and management of domestic and farm animals. These courses may cover animal nutrition, health, behavior, selection, reproduction, anatomy and physiology, facilities, product processing, and marketing. Students may study a particular species (swine, cattle, horses, fowl, sheep, and so on), or they may learn how to care for and maintain livestock as a more inclusive study.

Agricultural/FFA Leadership [1/2 credit]

General Description: Develop skills to improve your communication and leadership skills through goal setting, time management, identifying personality types, learning styles, public presentations, parliamentary procedure, motivational techniques, and personal development. Today's employers are seeking employees who can communicate effectively.

Small Engines [1/2 credit]

General Description: Agriculture Mechanics/Equipment/Structures courses provide students with the skills and knowledge that are specifically applicable to the tools and equipment used in the agricultural industry. While learning to apply basic industrial knowledge and skills (engine mechanics, power systems, welding, and carpentry, among others), students may explore a broad range of topics, including the operation, mechanics, and care of farm tools and machines; the construction and repair of structures integral to farm operations; a study of electricity and power principles; and safety procedures.

Power Mechanics I, II, III [1/2 or 1 credit]

General Description: Agriculture Mechanics and Equipment courses provide students with the engineering and power technology principles, skills, and knowledge that are specifically applicable to the agricultural industry. Typical topics include the operation, maintenance, and repair of power, electrical, hydraulic, and mechanical systems. Power Mechanics I is taught following completion of Small Engines. Power Mechanics II and III required Power Mechanics I as a prerequisite.

Landscaping [1/2 credit]

General Description: Learn about outdoor landscaping with classroom instruction and hands on activities. Plant identification, landscape design, landscape maintenance, outdoor construction projects. Learn how to properly install trees, shrubs, flowers, etc. Landscaping is big business with many job/career opportunities.

Intro to Agriculture [1/2 credit]

General Description: Discover the huge world of agriculture by exploring both production and agri-business aspects of this career area. Animals, plants, agricultural mechanics, FFA, individual and group projects.

Business

Business Communications [1/2 credit]

General Description: Students will learn effective techniques for oral and written communications. Analyzing and writing letters, memos, and business reports. Proficiency in language mechanics will be assessed. (1 semester course – earn 3 college credits per semester) [CCC - BUSN 1030]

Applied Business Math [1 credit]

General Description: Students will use the four arithmetic processes to learn basic business math applications such as payroll, depreciation, simple interest, bank discounts, insurance, taxes, markup, and trade and cash discounts. The course will teach the basics of financial statement analysis and business statistics. (1 semester course – earn 3 college credits per semester) [CCC – BUSN 1033]

Professionalism [1/2 credit]

General Description: Develops and understanding of individual and workplace needs as they relate to professionalism, team building, and career growth. Topic areas include human relations, business ethics, business etiquette, team building concepts, and career enrichment. (1 semester course – earn 3 college credits per semester) [CCC – BUSN 1055]

Personal Finance [1/2 credit]

General Description: Broad coverage of personal financial decisions, including basic financial planning, tax issues, managing savings, housing, credit, insurance, investments and employee benefits. (1 semester course – earn 3 college credits per semester) [CCC – BUSN 2020]

Accounting [1 credit]

General Description: Vocabulary and concepts of accounting and bookkeeping for the small business. Provides some knowledge of accounting in business environment and some skills to do the accounting in a small business organization. (1 semester course – earn 4 college credits) [CCC – ACCT 1000]

Keyboarding [1/2 credit]

General Description: Introduces touch-typing skills, speed development, beginning word processing and proofreading using software packages on the computer within the framework of an office environment. (1 semester course – earn 3 college credits) [CCC - BUOT 1010]

Yearbook/Publishing [1/2 credit]

General Description: Journalism courses (typically associated with the production of a school newspaper, yearbook, or literary magazine) emphasize writing style and technique as well as production values and organization. Journalism courses introduce students to the concepts of newsworthiness and press responsibility; develop students' skills in writing and editing stories, headlines, and captions; and teach students the principles of production design, layout, and printing. Photography, photojournalism, and digital technology skills may be included.

First Year Experience [1/2 credit]

Physical Education & Health

Physical Education [1/2 credit]

General Description: Physical Education courses provide students with knowledge, experience, and an opportunity to develop skills in more than one of the following sports or activities: team sports, individual/dual sports, recreational sports, and fitness/conditioning activities.

Health Education [1/2 credit]

General Description: Topics covered within Health Education courses may vary widely, but typically include personal health (nutrition, mental health and stress management, drug/alcohol abuse prevention, disease prevention, and first aid) and consumer health issues. The courses may also include brief studies of environmental health, personal development, and/or community resources.

Weight Training [1/2 credit]

General Description: Develop knowledge and skills with free weights and universal stations while emphasizing safety and proper body conditioning.