



Summer School Course Catalog 2019

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21CCCS Online Summer School

21st Century Cyber Charter School is making summer school courses available to all Pennsylvania students. Summer school classes can be taken entirely online for high school credit and middle school credit recovery. Courses are available as original credit for high school students taking a course for the first time and credit recovery for middle school and high school remediation. All of our courses are taught by full-time PA certified teachers.

Courses are asynchronous and are available 24 hours a day, 7 days a week. Teachers are available Monday through Thursday 9am-1pm via phone, email and Virtual Office. Students provide their own computer, software, and Internet connection.

Registration opens April 3, 2019 for both original and credit recovery courses. Registration closes on May 5, 2019 for original credit courses and on June 13, 2019 for credit recovery course. Original credit classes runs from April 29, 2019 through August 1, 2019. Credit recovery classes runs from June 17, 2019 and continue through August 1, 2019 at 4:00 PM. Teachers will not be available to students during the period of June 10-14, and July 4.

Students may enroll online at <http://db.21cccs.org/summerschool.lasso> Payment is via Authorize.net. Schools wishing to enroll students should contact Monica Frank - mfrank@21cccs.org or 484-875-5493 for registration and payment details.

Course costs:

Course Type	Credit Value	Cost	Credit Value	Cost
Original Credit	1.0	\$100.00	0.5	\$50.00
Credit Recovery	1.0	\$100.00	0.5	\$50.00

A \$10 shipping fee for textbooks and other course materials is in addition to above costs.

Drop periods are as follows:

- Original credit—by 4:00 pm 15 business days after registration, or start of course, whichever is later
- Credit recovery—June 27, 2019 by 4:00 pm

Shipping and PE kit fees are not refundable. Students are required to return textbooks within two weeks of end of course to avoid charges.

21st Century Cyber Charter School (21CCCS) has the best academic track record of any cyber charter school in Pennsylvania. Now in its 19th year, 21CCCS is creating programs to enable Pennsylvania public schools to expand offerings to their students, and to help train their teachers to become effective online instructors. For more information on these outreach programs, please contact info@21cccs.org.

High School Courses

English Composition

1 Credit

This course is designed help students build their writing and communication skills. Students will write in the informative, argumentative, and narrative modes. Students will learn the writing process and take multiple pieces of writing through drafting, revision, and editing. Students will study other writers and model texts to learn writing techniques and craft moves. Students will be taught to use appropriate organizational strategies, precise language, and a variety of sentence structures. The course will teach students to use appropriate grammar, mechanics, punctuation, spelling, and sentence formation. Students will also continue to build their text analysis skills through the close study and analysis of fiction and nonfiction. The course will include readings, writing assignments, discussion boards, live class lessons, research, group work, presentations, quizzes, and tests.

Texts: *To Kill a Mockingbird*, *I Am Malala*

English Literature

1 Credit

In this course, students will build their skills as readers and writers. Students will engage in close reading and analysis of fiction, nonfiction, drama and poetry. Students will build comprehension skills, as well as, vocabulary and word recognition skills. Students will learn about elements of fiction, nonfiction, drama and poetry including, but not limited to: theme, plot, setting, characterization, tone and mood, voice, text structure, symbolism and figurative language. Students will read across a wide variety of genres. In this class, students will build writing skills with a focus on responding to texts and supporting ideas with text evidence. The course includes readings, discussion boards, research, presentations, essay assignments, quizzes, and exams.

Texts: *Fahrenheit 451*, *Romeo & Juliet*, *Chasing Lincoln's Killer/Manhunt*, *Lord of the Flies*

American Literature

1 Credit

In this course, students will read and analyze major works of American Literature from the pre-colonial times to the present. Students will analyze texts arranged thematically, rather than chronologically. Ideas students will explore include This Land is Your Land: The American Identity, Freedom and Oppression, American Dreams and American Nightmares, and Song of Myself: Identity, Conformity, and Society. Students will build their writing and research skills, with a particular focus on responding to and analyzing literature. Students will explore many aspects of American literature: fiction, nonfiction, poetry, media, art, drama, the novel and speech. The course includes readings, discussion boards, live class lessons, research, essays, group work, presentations, quizzes, and exams.

Texts: *Kindred*, *Incidents in the Life of a Slave Girl*, *The Great Gatsby*, *The Namesake*.

Elements of Language**1 Credit**

This course is designed to support students in building foundational reading and writing skills. The aim of this course is to prepare students to meet the demands of postsecondary literacy and communication. Students in this course will write for a variety of purposes, from personal narratives to inquiry and analysis essays. Students in this course will develop a deep understanding of their individual reading and comprehension process. They will develop strategies and skills to improve reading comprehension and fluency. Students will read and analyze texts including short stories, novels, essays, non-fiction articles, poetry, and literary nonfiction.

Novels: *Where Things Come Back*

Business Communications**1 Credit**

This course is designed to familiarize students with the many types of written and verbal communications that students will encounter in the business world. Students will also learn writing techniques, research skills, and proper grammar usage. Students will explore many aspects of business communications - business writing, technical documentation, advertising, resumes, verbal communication skills, interviewing, and much more. The course includes readings, discussion boards, live class lessons, research, and presentations.

Texts: *How to Win Friends and Influence People*

Creative Writing**0.5 Credit**

This course will teach students the major components of the creative writing process by learning writing techniques and self-editing. The primary focus of the course will be on creating and completing various creative pieces, culminating with the completion of a “final” piece incorporating all skills covered in the course work. Students will explore many aspects of creative writing through writing activities and assignments geared towards helping students unlock their natural creativity. The course will also include readings, discussion boards, revision strategies, and live class lessons.

Holocaust and Genocide Literature Seminar**0.5 Credit**

This course will provide students the opportunity to examine Holocaust literature and other similarly themed writings. Students will explore genocide themes in a historical and contemporary context. Students will complete writing workshops. Other learning activities will include film analysis, book discussions, analyze oral histories, and a weekly Live Class. Although these books were carefully selected for literary and artistic value, parents should be aware that some may contain images, language, or moments of violence that may not align with their personal values. If you are concerned about the content of these books, contact the school to discuss your concerns with the teacher.

Graphic Novel Seminar**0.5 Credit**

This course examines graphic novels, a genre that has grown in popularity and renown in recent years. Students will study history, fiction, classic literature, and science fiction through these inventive books that combines literary texts and illustrations. In addition to analyzing these texts, students will be able to create their own stories and comics. The course may include readings, discussion boards, live class lessons, group work, projects, and presentations. Although these books were carefully selected for literary and artistic value, parents should be aware that some might contain images, language, or moments of violence that may not align with their personal values. If you are concerned about the content of these books, contact the school to discuss your concerns with the teacher.

Texts: *A Pocketful of Plays*, *Respect for Acting*

Journalism**0.5 Credit**

Journalism is a course designed for students who are interested in exploring the field of journalism and developing their skills as a writer. This course will investigate the ethical and legal responsibilities of the press, as well as the various forms of media found today. Students will learn the fundamentals of writing hard news stories, feature stories, sports reporting and editorials. They will have numerous opportunities to create original articles throughout the course. Throughout this course, students learn the keys to conducting an interview and translating that information into an article ready for the press. As a final assignment, students will create a newspaper using the articles they have written throughout the course.

Algebra I**1 Credit**

In this course, emphasis will be placed on operations, linear equations, linear inequalities, linear functions, and data organization. Students will be asked to work with operations, real numbers and expressions, to write and solve linear equations and linear inequalities, to analyze and interpret functions, describe and compute slope, to analyze and interpret a scatter plot, and to use data displays in problem solving situations. Activities will include live class sessions, practice activities, and unit exams. This course will prepare students to take the Keystone Algebra I Exam.

Algebra I B**1 Credit**

In this continued course, emphasis will be placed on operations, linear equations, linear inequalities, linear functions, and data organization at an advanced pace. Students will be asked to work with operations, real numbers and expressions, to write and solve linear equations and linear inequalities, to analyze and interpret functions, describe and compute slope, to analyze and interpret a scatter plot, and to use data displays in problem solving situations. Activities will include live class lessons, practice activities, and unit exams. This course will prepare students to take the Keystone Algebra I Exam.

Algebra II

1 Credit

The purpose of this course is to reinforce and extend students' knowledge of Algebra 1 as they apply variables, equations, and functions to more in-depth problem solving situations. This course will delve into various algebraic topics including: formulas, linear functions and graphs, patterns, counting theory, data analysis, radical expressions, rational exponents, imaginary numbers, quadratics and factoring, polynomial functions and equations, exponential and logarithmic functions, logarithmic properties and equations, and an introduction to absolute value functions, radical functions, and rational functions. This course will include interactive lessons, practice, quizzes, tests, and activities throughout the learning process.

Geometry

1 Credit

Students will build upon basic geometry skills by extending ideas about the properties of lines and polygons. Review of the properties of triangles and other skills from Algebra I will show relationships between parts of geometric figures and solving for unknowns. Throughout the course, students will apply the math they learn to real-world situations. This course includes lecture through live class lessons, a midterm exam, and a final exam.

Consumer Math

1 Credit

This course is a comprehensive review of the mathematical skills applied to personal finance and other consumer issues. Topics include whole numbers, fractions, percentages, basic algebra, charts and graphs. The course covers the most common consumer issues including finances, taxes, budgeting, insurance, and home ownership for example. By the conclusion of the course students will be able to compute wages, and taxes, budget for fixed and variable expenses, understand the cost of loans, compare and evaluate products and services for a best buy including larger items such as vehicles, and compare investment opportunities.

Pre-Calculus

1 Credit

The purpose of this course is to prepare students for the study of Calculus. The major areas of study include: analyzing functions including power, polynomial, rational, exponential, and logarithmic functions; logarithmic properties and equations; right triangle trigonometry; trigonometric functions and graphs; trigonometric identities and equations; systems of equations and matrices; conic sections; parametric equations; vectors; polar coordinates; and sequences and series. This course will include vocabulary checks, practice, quizzes, tests, and projects. Prerequisites: Passing grade in Algebra I & II and Geometry. Recommended only for students who earned a B or above in Algebra II.

Introduction to Scientific Principles

1 Credit

This course is an introductory course designed to introduce students to the basic concepts of science. Students will explore the history and nature of science with emphasis on fundamental concepts of biology, physics, and chemistry while exploring the relationship between science and everyday life.

Biology**1 Credit**

This course reinforces the Biological Science Standards created by the Pennsylvania Department of Education. This course includes a survey of biology, botany, zoology, cell physiology, microbiology, and genetics. Several extensive labs demonstrate first hand the concepts being taught in this class. At the conclusion of this course students should be able to: explain the structural and functional similarities and differences found among living things, explain the chemical and structural basis of living organisms, describe how genetic information is inherited and expressed, and explain the mechanisms of the theory of evolution. Activities will include live class lessons, and small group work.

Earth and Space Science**1 Credit**

Earth and Space Science is the study of the processes that shape the Earth and explain the universe. This course will explore the four main branches of Earth Science, which includes the following: geology, oceanography, meteorology, and astronomy. In this Earth science course, students will learn in detail about the Earth's interior and the theory of plate tectonics. Students will use simulations, articles, visualizations, and other tools to explore Earth's systems and their interactions. Students will also explore the current theories that describe the formation of Earth, our Solar System, and the universe.

Physical Science**1 Credit**

This course stresses basic concepts and logical methods of chemistry and physics as they apply to daily life. Upon completion of this course, students will be able to: explain fundamental scientific principles, distinguish kinds and phases of matter, classify matter, recognize the role of atomic structure in chemical bonding, reactivity, and radioactivity, state the difference between forms and kinds of energy, describe the electromagnetic nature of matter, and use the concept of force and motion to solve real world problems. This course will include live class lessons, research, written assignments, a midterm exam, and a final exam.

Chemistry**1 Credit**

This course builds upon scientific concepts presented in general science and biology courses. Students will explore the theories behind the foundations of chemistry and apply critical thinking skills to solve real-life chemistry problems. Topics include, but are not limited, to the scientific method, atomic theory, the periodic table, types of chemical bonding, chemical nomenclature, stoichiometry, limiting reactants, percent composition, gas laws, and solutions. Additionally reading and algebraic problem solving strategies will be emphasized in assessments throughout the course. Prerequisite: Algebra I (C or better)

Environmental Science**1 Credit**

Students will explore key topic areas including the application of the scientific process to environmental analysis; ecology; energy flow; ecological structures; earth systems; and atmospheric, land, and water science. Topics also include the management of natural resources and analysis of private and governmental decisions involving the environment. Students explore actual case studies and conduct interactive activities, learning that political and private decisions about the environment and the use of resources require accurate application of scientific processes, including proper data collection and responsible conclusions. Activities will include webcasts, lab assignments and forums.

Introduction to Anatomy and Physiology**1 Credit**

This class covers every major body system ranging from the skeletal system to special senses. With the complexity of the human body, each unit is covered using an outline to focus on the main topics. As students move throughout the class, they will not only learn about each body system, but how these body systems work together.

Introduction to Forensic Science**0.5 Credit**

Forensic science is the application of basic biological, chemical and physical science principles and technological practices to the purposes of justice in the study of criminal and civil issues. Major themes of study in this course will be pathology, anthropology, odontology, ballistics, trace evidence, entomology, DNA, fingerprints, impression evidence, questioned documents and forensic psychiatry/psychology. This course will present the scientific principles, basic laboratory and field methods forensic scientists use to solve problems. Students will take on the various roles of crime scene investigator, scientists and medical examiner in order to collect and evaluate evidence in a problem-solving environment. Prerequisites: Successful completion of Biology

American History II**1 Credit**

American History II begins during the period of reconstruction after the devastation left by the Civil War. From here, the course covers major wars, the roaring 1920's, Great Depression, Civil Rights and the Nixon Administration. Students work in unison with the teacher and each other through synchronous learning tools, email, and online chats to break down and analyze the political, social, and economic facets that changed radically from one presidential term to the next.

World Geography**1 Credit**

In the World Geography course students will examine, discuss, and apply the five major themes of Geography to compare different world regions. The course begins with an investigation of the five themes of Geography—Location, Place, Movement, Human-Environment Interaction, and Region—and an overview of the main concepts of Human Geography including population trends, migration, culture, political geography, and economic geography. As the course continues, students will apply their knowledge of the five themes and concepts of Human Geography to analyze and compare the following world regions: Europe, Latin America, Sub-Saharan Africa, Southwest Asia, South Asia, and East Asia. Activities will include assignments, weekly live classes, and interactive forums.

World History**1 Credit**

World History gives students the opportunity to visit the past, connect with the present, and look to the future. The course begins with the Renaissance and moves forward to cover the Scientific Revolution, exploration, Spain's Golden Age, the rise of Austria & Prussia and the Industrial Revolution. From here, students dive into more recent world history exploring the modernization of Japan, Latin America, Africa and the Middle East, WWI, Hitler and Nazi Germany and WWII. To conclude, studies of regional events since 1945 are reviewed. Students will be required to use their knowledge of history, geography, economics, political processes, religion, ethics, diverse cultures, and humanities to solve problems in academic, civic, and social settings. This course will include live class lessons, research writing, and narrative writing.

US Government & Economics

1 Credit

In the American Government portion of the course, students will begin by reviewing the roots of American Democracy while examining different forms of government. Next we will introduce our founding fathers and the drafting and adoption of our Constitution. From there, students will investigate the three branches of our government and understand the checks and balances in place. Throughout the course students will gain knowledge of political participation and it's importance on determining how our country will function and prosper. In the Economics portion of the course students will gain a broad overview of how economics shapes decisions made by individuals, groups of people, countries, and world institutions. Students will begin their study of Economics with an examination of the fundamental ideas that go into economic thinking and how markets work. From there, students will explore economic institutions and organizations, how economic output is measured, and what impact governments have on the market. Activities will include forums, simulations, project-based learning, and objective assessments.

Sociology

0.5 credit

The world is becoming more complex. How do your beliefs, values, and behavior affect the people around you and the world in which we live? Students examine social problems in our increasingly connected world, and learn how human relationships can strongly influence and impact their lives, by watching videos, reading articles, and learning more about our society.

Psychology

0.5 Credit

Psychology is the scientific study of behavior and mental processes. It uses the scientific method to discover ways of understanding the complexities of human thought and behavior, as well as differences among people. Studying psychology gives students lifelong skills such as dealing with issues proactively, solving problems, learning, and nurturing healthy relationships. It helps students understand themselves, and deal with issues in their own lives such as inner conflicts, relationships with parents and peers, and intimacy. It also helps students understand societal problems like drug dependency, aggression, and discrimination. This course exposes students to the major topics found in the field of psychology. Students explore the scientific methods upon which psychology is based.

Health

1 Credit

This course is designed to familiarize students with different health topics for their physical, mental, emotional, and social health. This course will help students with decision-making skills, goal setting, and health skills. Mental and emotional health will be discussed throughout the course as well, leading into a relationship unit. Here, topics such as resolving conflicts will be discussed. We also will learn about Nutrition basics and managing weight and body image. In the medication, drugs and body unit, they will consider the implications of how these can affect the body and different body systems associated with this. Lastly, we will discuss communicable and non-communicable diseases on the environment and safety and prevention. Each of the concepts will be reinforced with outside readings. There will be a midterm and final exam.

Physical Education**0.5 Credit**

Introduction to Fitness is a comprehensive program designed to help teens take responsibility of their own activity, fitness, and health; and to prepare them to be physically active and healthy throughout their adult lives. Students will learn the underlying fundamentals for maintaining a healthy lifestyle. Students are required to complete weekly fitness journals which includes self-assessments and physical activities, which will provide them with the opportunity to be active. The course will cover benefits of lifelong fitness activities, injury and risk, cardiovascular and respiratory systems, skill-related and health-related fitness components, and fitness programing. After completing the course, students will be able to apply acquired knowledge about the benefits of physical activity to their overall health and wellness.

Applied Physical Education**0.5 Credit**

This course is a continuation of Introduction to Fitness. Students will continue learning the underlying fundamentals of a "fit for life" attitude. Students are required to complete a portfolio of fitness, which includes self-assessments and activities; this provides them with the opportunity to get active and improve fitness. In this course students will be exploring nutrients and food supplements, strengthening exercises, and learning to design individual fitness plans. Prerequisites: Introduction to Fitness

Personal Finance**0.5 Credit**

This course uses basic arithmetic skills to explore how the use of money impacts us personally in the world in which we live. Topics include finance, taxes, budgeting, banking, and home/car ownership. Examples of wages, income deductions, insurance, checking and saving accounts, credit, housing expenses, auto expenses, recreational spending, and the cost of transportation are studied. In the second half of the class, investing in your future is explored. Topics include school financing, debt and debt recovery, retirement planning vehicles and investing in stock and bond markets. At the course's conclusion, students will have been exposed to essential financial concepts and financial terms. In addition, this course will help students achieve a better awareness of the world economy and how they may interact with it for a bright and prosperous future.

Study Skills**0.5 Credit**

Students will investigate best practices for learning as a cyber student. Organization, effective approaches to time management, and using tools to boost efficiency and productivity. Students will explore learning strategies, using research, and interpreting information to help them across the different subject areas.

Middle School Courses

Language Arts 6 – Course Recovery - Grade 6

The purpose of this course is to build a solid foundation in the reading, writing, vocabulary, and grammar skills that students will find essential throughout their lives. Students will also learn writing techniques, research skills, and test-taking skills. The class will explore many aspects of literature: fiction, nonfiction, poetry, media, art, the novel, and speech. Students will use the five steps of the Writing Process (prewriting, drafting, revising, editing, and publishing). The course will include readings, discussion boards, live class lessons, research, group work, and presentations. *Course Materials: From the Mixed-Up Files of Mrs. Basil E. Frankweiler*

Language Arts 7 - Course Recovery - Grade 7

The purpose of this course is to familiarize students with elements of literature from various genres. Students will also learn writing techniques, research skills, and the rules of proper grammar usage. The class will explore many aspects of literature, including: fiction, nonfiction, poetry, media, art, drama, the novel, and speech. Students will use the five steps of the Writing Process (prewriting, drafting, revising, editing, and publishing). The course will include readings, discussion boards, live class lessons, research, group work, and presentations. *Course Materials: The Crossover*

Language Arts 8 - Course Recovery – Grade 8

The purpose of this course is to build a solid foundation in the reading, writing, and grammar skills that students will find essential throughout their lives. Students will also learn writing techniques, research skills, and the rules of proper grammar usage. The class will explore many aspects of literature, including: fiction, nonfiction, poetry, media, drama, the novel, oral traditions, and speech. This course will teach both narrative and persuasive writing, and the elements of each of these styles. The course will include discussion boards, lecture, class discussion through live class lessons, research, collaborative group work, presentations, unit exams, and formal written essays. *Course Materials: Brown Girl Dreaming*

Math Principles - Course Recovery – Grade 6

Topics will include exponents, factors, fractions, ratios, proportions, percents, probability, displaying data, and graphing using the coordinate plane. Throughout the course, students will incorporate math into real-world situations. This class includes online lessons, projects, practice, quizzes, exams and live class lessons.

Pre-Algebra - Course Recovery – Grade 7

This course will provide a foundation for Algebra I. Course topics include: real numbers and linear equations, linear inequalities, factoring, fractions, graphing and some elements of geometry. Students will study rational number forms, integers, measurement, and draw conclusions about problem solving. They will be asked to provide written explanations that illustrate his or her thinking and process for solving problems. After completing the course, students will be able to use: integers and expressions to solve problems, decimals in equations, rational numbers, exponents, scientific notation, ratios, proportions, and percents. They will also be able to solve: equations, inequalities, right triangles, graph equations, and find area and volume of various solids. This class includes online lessons, projects, practice, quizzes, exams and live class lessons.

MS Algebra I A - Course Recovery - Grade 8

This course builds upon pre-algebra skills by expanding on knowledge of variables or the “unknown.” Students extend their knowledge by using abstract thinking to understand mathematical concepts. Topics include radicals, greatest common factor, least common multiple, absolute value, exponents, operations with polynomials, linear equations, systems of equations, inequalities, and functions. Students are introduced to and assessed on the topics through various lessons, activities, practices, tests, and projects. This class includes online lessons, projects, practice, quizzes, exams and live class lessons.

Science 6 - Course Recovery - Grade 6

The sixth grade science course employs the scientific method in many contexts as students design and carry out experiments to answer a variety of questions. Throughout the course, students actively investigate patterns of living things, cells and microbes, matter, chemical changes, and temperature. In the area of life science, students will study cells, bacteria, plants and animals. In earth science, students will study water from fresh water to the ocean. In physical science, students explore matter, the Periodic Table, and carbon in detail. This course was designed to follow and reinforce the Biology, Physical Science, Chemistry, Physics, and Earth Science Standards that are provided by the Pennsylvania Department of Education (PDE).

Science 7 - Course Recovery – Grade 7

This science course will study a survey of sciences, which include parts of Biology, Physical Science (Chemistry, Physics, & Astronomy), and Earth Sciences. Students will learn that science is everywhere and that there are many connections between each of the sciences and the real world. Activities will include live class lessons and small group work. This science course requires mastery of the basic concepts early in the course to be able to understand and succeed later in the course. This course was designed to follow and reinforce the Biology, Physical Science, Chemistry, Physics, and Earth Science Standards that are provided by the Pennsylvania Department of Education (PDE).

Science 8 - Course Recovery – Grade 8

This course is designed to provide 8th grade students with a solid foundation of basic Biology, Earth and Space Sciences, Physical Science, and Chemistry concepts and skills, while preparing them for a high school science course. Students will master these skills, while relating them to real life situations through a variety of activities and assignments, including discussion boards, small group work and a graphing, researching and writing assignment.

Ancient History through Modern Times - Grade 6

This middle school World History course gives students the opportunity to explore history’s beginnings, world religions, and how civilizations impacted not only other civilizations in the ancient world, but the modern world today. Ancient Rome, Greece, Africa, India, and China are explored. This will occur through activities, forum discussions, geography studies, live class lessons, and real-world connections to today’s current events.

World Cultures – Grade 7

The purpose of this course is to familiarize students with the major themes found in geography, including location, place, human environment, movement, and regions. The class will explore these aspects of geography in relation to our country and the world. This class will include live class lessons, group work, and presentations.

American History I– Grade 8

American History I centers on the nature of the slave trade, colonization, and the American Revolution. The development of the Constitution, Civil War and Great Depression are also covered. Through interrogating eyewitness accounts, examining clues, and searching for evidence, students will develop critical thinking skills (evidence-gathering, analysis, synthesis, evaluation) using a variety of learning styles. Students will complete this course using live class lessons, small group work, and discussion forums. There will also be a comprehensive final exam.