

SusQ-Cyber Course Catalog Offering

Course title	Grade Levels	Prerequisite	Credit Value
LANGUAGE ARTS			
English 1	9,10,11,12		1.0
English 2	10,11,12	English 1	1.0
English 3	11,12	English 2	1.0
English 4	12	English 3	1.0
Readings in S.S	9,10,11,12		0.5
Mythology	11,12		0.5
Short Stories	10,11,12		0.5
Inkblots	9,10,11,12	75% last English class	0.5
Write On!	9,10,11,12	75% last English class	0.5
Literature of Early America	9,10,11,12	Passed last English class	0.5
MATHEMATICS			
Pre-Algebra	9,10		1.0
Algebra 1	9,10,11,12	Pre-Algebra	1.0
Algebra 2	9,10,11,12	Algebra 1, Geometry	1.0
Geometry	9,10,11,12	Algebra 1	1.0
Pre-Calculus	11,12	Algebra 2	1.0
Standards Based Math	11,12		1.0
Trigonometry	11,12	Algebra 2	0.5
Business Math	10,11,12	Algebra 1	0.5
Math 1, 2, 3	9,10,11,12		1.0
SCIENCE			
Earth Science	9,10,11,12		1.0
Biology	9,10,11,12		1.0
Chemistry	10,11,12	80% in Algebra 1	1.0
General Science	9,10,11,12		1.0
ICP	10,11,12	70% in Pre-Algebra	1.0
Physical Science	9,10,11,12		1.0
Anatomy	10,11,12	Biology	0.5
Dinosaurs	10,11,12		0.5
Conservation	9,10,11,12		0.5
SOCIAL STUDIES			
US History 1	9		1.0
World History	10		1.0
US History 2	11		1.0
Civics	12		1.0
World Geography	10,11,12		0.5
The 60's	11,12		0.5
Economics	11,12		0.5
Government	11,12		0.5
You and the Law	11,12		0.5
HEALTH AND PE			
Health	9,10,11,12		0.5
Fitness for Well Being	9,10,11,12		0.5
PE	9,10,11,12		0.25

FAMILY CONSUMER SCIENCE		
Foods and Nutrition	9,10,11,12	0.5
Parenting Child Develop	9,10,11,12	0.5
Career Explorations	9,10,11,12	0.5
MUSIC		
Exploring Music with GarageBand	9,10,11,12	0.5
MISCELLANEOUS		
Graduation Project	11,12	0.5
Dual Enrollment	11,12	1.0

Language Arts Department

Recommended Courses

Course	Grade Level	Credit	Prerequisite
English I English I students study literature, reading comprehension, vocabulary, essay development, research, functional text, and communication. Through the study of novels, short stories, poetry, drama, and nonfiction, students analyze literary elements and devices, text structure, author's purpose, and historical significance. Students develop strategies for reading comprehension and vocabulary acquisition through explicit instruction, teacher models, and think-alouds. Students write a variety of multi-paragraph essays with emphasis on the writing process. Grammar instruction is integrated within writing activities. Students study the research process and complete a research paper. Students study a variety of communication strategies and applications.	9, 10, 11, 12	1.0	None
English II English II students study literature, reading comprehension, vocabulary, essay development, research, functional text, and communication. Through the study of novels, short stories, poetry drama, and nonfiction, students analyze literary elements and devices, text structure, author's purpose, and historical significance. Students develop strategies for reading comprehension and vocabulary acquisition through explicit instruction, teacher models, and think-alouds. Students write a variety of multi-paragraph essays with emphasis on the writing process. Grammar instruction is integrated within writing activities. Students study the research process and complete a research paper. Students study a variety of communication strategies and applications.	10, 11, 12	1.0	English I
English III English III students study literature, reading comprehension, vocabulary, essay development, functional text, and research. Through the study of American literature covering the periods from 1400-present, students analyze literary elements and devices, text structure, author's purpose, and historical significance. Students develop strategies for reading comprehension and vocabulary acquisition through explicit instruction, teacher models, and think-alouds. Grammar instruction is integrated within writing activities. Students study the research process.	11, 12	1.0	English II
English IV English IV students study literature, reading comprehension, vocabulary, and functional text. Through the study of British literature covering the periods form 449-present, students analyze literary elements and devices, text structure, author's purpose, and historical significance. Students develop strategies for reading comprehension and vocabulary acquisition through explicit instruction, teacher models, and think-alouds and apply these strategies to complex texts. Students write a variety of essays with an emphasis on responding to literature through analysis and synthesis.	12	1.0	English III

Elective Courses

Course	Grade Level	Credit	Prerequisite
Readings in the Short Story In this course students read a variety of short stories and learn about the elements of plot, character and setting, as well as other literary elements such as suspense and irony. Lessons & Exams – 9 lessons, 2 exams	9, 10, 11, 12	0.5	None
Mythology This course provides a survey of the traditional Greek and Roman myths as well as the myths of other cultures, primarily Native American and African. These myths are compared in several areas, including creation, death and the afterlife, and gods and goddesses. The course concludes with a look at the epic through a discussion of <i>The Odyssey</i> . Lessons & Exams – 11 lessons, 2 exams	11, 12	0.5	None
Short Stories for Reluctant Readers This introductory course is designed for students who may not usually enjoy reading. By reading and analyzing short, high-interest stories, students learn to recognize the major elements of fiction, such as plot, characterization, and theme. Lessons & Exams – 11 lessons, 2 exams	10, 11, 12	0.5	None

Inkblots	9, 10, 11,12	0.5	75% last English Course
This class will introduce students to the process and techniques of creative writing. Students will experiment with various types of writing, including the writing of fiction and poetry. Class readings will expose students to various writing styles and provide examples of the successes and strategies of other writers. Class time will be spent discussing and reviewing literary devices, the writer's craft, the assigned readings, and student writing. This course will be conducted in an online classroom, two days a week. Attendance online is mandatory.			
Write On!	9, 10, 11, 12	0.5	75% last English Course
This course challenges writers to expand their knowledge and writing styles by compiling and revising the work they have generated in the Creative Writing I class. Students will further practice literary devices and style as they edit and turn their work into publishable quality. The course provides students with directed readings in material relevant to their writing projects. Students revise and edit work for a final portfolio. Production of a school literary magazine showcase student work will also be incorporated into this course. This course will be conducted in an online classroom, two days a week. Attendance online is mandatory.			
Literature of Early America	9, 10, 11, 12	0.5	None
This course is a survey of some well-known and more obscure literature of the early American period, roughly 1607-1790. We will begin with accounts of colonial settlement in Captain John Smith's "A Description of New England" and end with John Woolman's journal essays on social reform and the abolition of slavery in the newly emancipated United States. Get inside the minds of America's earliest settlers and most influential thinkers, and rediscover our American heritage.			

Mathematics Department

Recommended Courses

Course	Grade Level	Credit	Prerequisite
Pre-Algebra	9,10	1.0	None
Pre-Algebra is designed to help prepare you for Algebra 1. The major concepts covered in this course include using variables and finding solutions, solving equations, working with integers, geometry concepts, working with graphs, and probability.			
Algebra I	9,10,11,12	1.0	Pre-Algebra
Algebra I includes the continued study of variables, equations and functions. Topics include: solving equations and inequalities, simplifying expressions, polynomials and factoring, graphing, radicals and expanding arithmetic knowledge.			
Algebra 2	9,10,11,12	1.0	Algebra 1, Geometry
A continuation of Algebra I, Algebra II focuses on topics such as: Functions, equations and inequalities, probability and statistics, logarithmic and exponential relationships, quadratic and polynomial equations, and matrices. Use of computers and graphing calculators are incorporated throughout the product.			
Geometry	9,10,11,12	1.0	Algebra 1
Odyssey's Geometry course includes study of two and three-dimensional objects and their properties as well as deductive and inductive reasoning (i.e. proofs and coordinate geometry). Properties of geometric objects are covered including the study of: points, lines, angles and planes, polygons, with a special focus on quadrilaterals, triangles and shapes, circles and solids.			

Elective Courses

Course	Grade Level	Credit	Prerequisite
Pre-Calculus	11,12	1.0	Algebra 2
Pre-Calculus completes the formal study of the functions begun in Algebra I and Algebra II. Students focus on:			
1. Modeling		5. Polar coordinates	
2. Problem solving		6. Complex numbers	
3. Data analysis		7. Conics	
4. Trigonometric and circular functions and their inverses		8. Quadratic relations	
Discrete topics include the Proof by Induction and the Binomial Theorem along with sequences and series.			
Standard Based Math	11,12	1.0	None
Standard Based Math provides an overview of basic math skills as well as concepts from Algebra and Geometry necessary to be proficient in math as outlined by the Pennsylvania State Mathematics Standards.			
Trigonometry	11,12	0.5	Algebra 2
This course begins with a revisiting of the basic concepts of trigonometry learned in Geometry. As the course continues topics include: trigonometric identities, polar coordinates, vectors, complex numbers and approximate values. Graphing calculators are used throughout the course as a tool for better understanding.			
Business Math	10,11,12	0.5	Algebra I
This course covers the various aspects of consumer-oriented business practices, which include keeping financial records; figuring pay rates, benefits and commissions; understanding metric measures; and borrowing, saving and investing money. Practice problems in the course promote proficiency in dealing with everyday mathematical situations.			
11 Lessons 2 Exams			
Math 1, 2, 3	9,10,11,12	1.0	None
Math 1, 2, 3 is a sequence of secondary mathematics courses that takes the place of the traditional Algebra I, Geometry, Algebra II, Trigonometry and Pre-Calculus sequence. The Math 1-3 sequence is designed to ensure students are ready for college level work.			

Science Department

Recommended Courses

Course	Grade Level	Credit	Prerequisite
Earth Science	9, 10, 11, 12	1.0	None
<p>This course is designed as a two semester, third or fourth year course in high school. Both Geology and Astronomy topics are presented, building on earlier science competencies that students have gained. Topics from the history of the universe and the Earth to modern topics are presented. Additional topics from Oceanography and Atmospheric Science are included as well. Approximately 150 hours of seat time are required to complete the course.</p>			
Biology	9, 10, 11, 12	1.0	None
<p>This course is designed as a two semester, first or second year course in high school. Biology topics include Biochemistry, The Cell, Genetics, Natural Selection, The History of Life, Viruses and Bacteria, Protists, Plants, Animals, The Human Body, Ecosystems, and Environmental topics. Approximately 150 hours of seat time are required to complete the course.</p>			
Chemistry	10, 11, 12	1.0	80% in Algebra 1
<p>This course is designed as a two semester, second or third year course in high school. Chemistry topics include Matter, The Periodic Table, Chemical Reactions, Solution Chemistry, Organic Chemistry, and Nuclear Chemistry. Approximately 150 hours of seat time are required to complete the course.</p>			
General Science	9, 10, 11, 12	1.0	None
<p>This is a full year course designed to summarize what students have learned in their other science courses. Some of the topics covered throughout the course include the methods for scientific measurement, the structure and function of cells, the construction of the universe, and the ecological interaction of ecosystems. This course is a great way to pull everything in science together. Some labs and projects will be required.</p>			

Elective Courses

Course	Grade Level	Credit	Prerequisite
ICP	10, 11, 12	1.0	70% in Pre-Algebra
<p>This course is designed as a two semester, first or second year course in high school. Introductory Chemistry topics include Matter, The Periodic Table, Chemical Reactions, and Acids and Bases. Introductory Physics topics include Motion, Energy, Waves Electricity, and Magnetism. Approximately 150 hours of seat time are required to complete the course.</p>			
Physical Science	9, 10, 11, 12	1.0	None
<p>This course is designed as a two semester, first or second year course in high school. Introductory Chemistry topics include Matter, The Periodic Table, Chemical Reactions, and Acids and Bases. Introductory Physics topics include Motion, Energy, Waves, Electricity, and Magnetism. Approximately 150 hours of seat time are required to complete the course.</p>			
Anatomy	10, 11, 12	0.5	None
<p>This one semester course centers on the function and organization of living organisms. Students will explore the body systems such as cardiovascular, muscular, skeletal, and digestive. In addition, students will look more closely at the cells of each of these systems and compare their functions and structures. This is a great follow-up course for students who have completed biology. Some labs and projects will be required.</p>			
Dinosaurs	10, 11, 12	0.5	None
<p>In 1842 Sir Richard Owen of England coined the term "Dinosaur" and it became an instant sensation. This course examines how we reconstruct the animal from fossils and then assign a name. It shows how they are grouped based on certain characteristics and it uses ratios, proportions and scale drawings to give an idea of the various sizes. Also studied will be how they evolved, the climates in which they lived, and the various extinction theories. Includes videos, pod casts and virtual field trips. Two short projects required.</p>			

Conservation of Resources

9, 10, 11, 12

0.5

None

Students will learn about our natural resources and how they contribute to our lives. Some resources, such as air, are renewable and, with proper management, will never be exhausted. Other resources, such as coal, are limited. We have to plan how to use them intelligently and plan for an era when they no longer will be available. This course will help students make wise decisions about resources and investigate related careers in their field.

Social Studies Department

Recommended Courses

Course	Grade Level	Credit	Prerequisite
US History I	9	1.0	None
<p>In this two semester course students study the history of the United States from the origins of U.S. society to 1850. Special attention is given to the development and characteristics of African, European, and Native American roots in U.S. society. There is significant coverage of the political, economic, and social events and issues related to the exploration, colonial and revolutionary eras, the writing and ratification of the U.S. Constitution, development of the early Republic sectionalism, westward expansion, and the development of a unique American Culture. Students learn basic geography of the United States and population distribution and settlement patterns. Students learn about the development of the free enterprise system in the United States. Students examine basic American beliefs and principles, including limited government, federalism, checks and balances, separation of powers, and individual rights as reflected in the U.S. Constitution and other historical documents. Students evaluate the major reform movements of the 19th century and examine the rights and responsibilities of citizens of the United States.</p>			
World History	10	1.0	None
<p>In this two-semester World History course the student will develop greater understanding of the evolution of global processes and contacts in interaction with different types of human societies. This understanding is advanced through a combination of factual knowledge and appropriate analytical skills. The course highlights the nature of changes in international frameworks and their causes and consequences, as well as comparisons among major societies. The course emphasizes the development of relevant factual knowledge, leading interpretive issues, and types of historical evidence. Beginning with the earliest known civilizations, the course builds on an understanding of cultural, institutional, and technological precedents that, along with geography, set the human stage up to the present. The division of world history into broad chronological periods forms the organizing principle for dealing with change and continuity from the earliest civilizations of the present. Specific themes provide further organization to the course, along with the consistent attention to contacts among societies that form the core of world history as a field of study. A significant portion of the content dealing with the 20th and 21st century is accompanied by video footage, which bring the content alive for students. An interactive timeline helps the student better understand the chronology of the vast history of civilizations.</p>			
US History II	11	1.0	None
<p>In this two semester course students study the history of the United States from the Civil War to the present. Historical content focuses on the political, economic, and social events and issues related to sectionalism and slavery, industrialization and urbanization, major international wars, domestic and foreign policies of the Cold War and post-Cold War eras, and reform movements including the expansion of democratic processes and civil rights. Students examine the impact of geographic factors on major events and analyze causes and effects of the Great Depression. Students examine the impact of constitutional issues on U.S. society, evaluate the dynamic relationship of the three branches of the federal government and analyze efforts to expand the democratic process. Students analyze the impact of technological innovations on the American labor force. Students will learn contemporary US history including the terrorist threat of the early 21st century and efforts to combat this threat.</p>			
Civics	12	1.0	None
<p>In this two semester course students learn the beliefs and principles on which the United States was founded and on the functions, structure, and powers of government at the local, state, and national levels. Students learn major political ideas and forms of government throughout history. A significant emphasis is placed on the U.S. Constitution, its fundamental principles and ideas, and the form of government it created. Students thoroughly analyze major concepts of republicanism, federalism, checks and balances, separation of powers, popular sovereignty, and individual rights and compare the U.S. system of government with other political systems. Students identify the role of government in the U.S. free enterprise system and compare it to the economic systems. Students analyze the impact of individuals, political parties, interest groups, and the media on the U.S. political system, evaluate the importance of voluntary individual participation in a democratic society, and analyze the rights guaranteed by the U.S. Constitution. Students examine the relationship between governmental policies and the culture of the United States.</p>			

Elective Courses

Course	Grade Level	Credit	Prerequisite
World Geography	10, 11, 12	0.5	None
<p>World Geography students study people places and environments with local, regional, national, and international perspectives. Students will understand influence of geography on the present and past. The course includes study of the physical processes that shape patterns in the physical environment; the characteristics and interrelationships of climates, major land forms, and ecosystems; the political, economic, and social processes that shape regions; types of settlement; the distribution and dispersion of world population; relationships between people, places and environments; and the idea of region. Students will analyze how location affects economic activities in different economic systems. Throughout the world. Students will identify the processes that influence political divisions and analyze how different points of view affect public policy priorities. Students will analyze the effects of technology and human modifications on the physical environment.</p>			
The 60's	11, 12	0.5	None
<p>This course is designed as an in-depth look at the tumultuous 1960s in the United States. Students will also understand how earlier time periods helped to set the stage for the ideologies introduced and embraced in the 1960s. An emphasis on project-based and authentic assessments will be utilized throughout the course, as well as utilization of Discovery Education and multiple primary sources.</p>			
Economics	11, 12	0.5	None
<p>In the economics course, students will learn basic principles of production, consumption, and distribution of goods and services in the United States and compare them with those in other countries. Students will learn the rights and responsibilities of consumers and businesses. Students will understand the relationship between supply, demand, and price and study the role of financial institutions in a free enterprise system. Students will learn the types of business ownership and understand market structures.</p>			
Government	11, 12	0.5	None
<p>In this one semester course students learn the beliefs and principles on which the United States was founded and on the functions, structure, and powers of government at the local, state, and national levels. Students learn major political ideas and forms of government throughout history. A significant emphasis is placed on the U.S. Constitution, its fundamental principles and ideas and the form of government it created. Students thoroughly analyze major concepts of republicanism, federalism, checks and balances, separation of powers, popular sovereignty, and individual rights and compare the U.S. system of government with other political systems. Students identify the role of government in the U.S. free enterprise system and compare it to other economic systems. Students analyze the impact of individuals, political parties, interest groups, and the media on the U.S. political system, evaluate the importance of voluntary individual participation in a democratic society, and analyze the rights guaranteed by the U.S. Constitution. Students examine the relationship between governmental policies and the culture of the United States.</p>			
You and the Law	11, 12	0.5	None
<p>This course surveys criminal law, consumer law, housing law and family law. Individual rights also are addressed. There are 6 lessons and 2 exams.</p>			

Health and PE Department

Recommended Courses

Course	Grade Level	Credit	Prerequisite
Health	9, 10, 11, 12	0.5	None

Odyssey High School Health provides students the opportunity to acquire knowledge of overall health and its many facets, practice life skills and develop attitudes that can benefit them throughout their lives.

Elective Courses

Course	Grade Level	Credit	Prerequisite
Fitness for Well-Being	9, 10, 11, 12	0.5	None

This course is designed to provide students with information on how to enhance their lives through exercise and a balanced diet. Cardiovascular fitness, muscular fitness, flexibility, nutrition and weight control are among the topics discussed. There are 9 lessons and 2 exams.

Physical Education	9, 10, 11, 12	0.25	None
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This course is designed to provide students with opportunities to enhance their lives through exercise. Cardiovascular fitness, muscular fitness and flexibility are among the topics addressed. Students will log attendance and complete 30 hours at a site agreed upon between the school and the student.

Family Consumer Science Department

Recommended Courses

Course	Grade Level	Credit	Prerequisite
Food and Nutrition	9,10,11,12	0.5	None

This course presents guidelines for nutrition and information regarding cooking and baking methods, shopping for food, types of food and foods around the world. There are 11 lessons and 2 exams.

Elective Courses

Course	Grade Level	Credit	Prerequisite
Parenting	9,10,11,12	0.5	None

This course focuses on issues related to parenting, beginning with deciding whether or not to have children, then progressing to prenatal health-care practices, the stages of development in infants and children, how to develop a positive parent-child relationship, balancing parenthood with other areas in life, the role of parents in the family and how to build a strong family. There are 10 lessons and 2 exams.

Career Exploration	9,10,11,12	0.5	None
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This course helps students make a plan that will lead to an enjoyable career. Students identify their self-interests, learn how to research careers, discover possible career paths, explore different jobs and develop a career plan. There are 10 lessons and 2 exams.

Music Department

Elective Courses

Course	Grade Level	Credit	Prerequisite
Exploring Music with GargageBand	9,10, 11, 12	0.5	None

Students will apply a foundation in the elements of music to the creation of original compositions using Apple's GarageBand software. The course begins with an overview of melody, harmony, rhythm, timbre, form and orchestration. Applying these elements to their choices of instruments and sounds, students will create music of various styles conveying their desired musical outcomes. Combining the fundamental use of GarageBand with the study of music throughout various historical time periods, students will gain the skills to create music that can be shared, used in other media projects or performed for an audience. Students are assessed through a series of compositional projects in this hands-on course.

Miscellaneous

Required Course

Course	Grade Level	Credit	Prerequisite
Graduation Project	11,12	0.5	None

In order to graduate from SusQ-Cyber Charter School, students must successfully complete a culminating senior project, also known as a graduation project. By drawing upon the skills and knowledge they have acquired throughout their high school education, students will design and complete a culminating project (which may be a research paper or a presentation) in one of three defined areas: Career Exploration, Community Service, or Advanced Core Subject Research.

This Course is designed to lead the student through the steps necessary to complete a graduation project by acquainting the student with the options and instructions for each of the three defined areas listed above.

Dual Enrollment	11,12	1.0	None
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Dual Enrollment provides students with the opportunity to attend a local college or university in order to complete college level work while still enrolled in high school.