

2009-2010 Course Catalog



TRECATM
Digital Academy

School for a New GenerationSM



Course Registration Information

Please take time to study the information presented in this section before selecting your classes. If you have any questions as you work your way through this process, please e-mail Mr. Buskirk (mr_buskirk@tdalearn.org) or call the guidance office at the toll-free number (1-888-828-4798, ext. 261 or 275).

All students wishing to graduate from TRECA Digital Academy must:

- Pass all sections of the State of Ohio Graduation Tests.
- Successfully earn **20** total high school credits according to the table below.
- Carry at least four (4) classes at all times during each semester.
- Successfully complete a minimum of four (4) total credits as a full-time TDA student.

These requirements meet the State of Ohio Minimum Graduation requirements revised 9/15/01: SBA 55 and HBO 94. Please study this table carefully when selecting courses.

Minimum Requirements for Graduation from TRECA Digital Academy

English	4 Credits of comprehensive English
Math	3 Credits
Science	3 Credits including 1 Credit Biological Science 1 Credit Physical Science 1 Credit Elective
Social Studies	3 Credits including .5 Credit American History .5 Credit U.S. Government .5 Credit Geography (TDA requirement) 1.5 Credits Elective
Health	.5 Credit
Physical Education	.5 Credit
Required Electives	1 Credit - Must be one of the following: Business, Foreign Language, Fine Arts or Technology
Additional Electives	5 Credits
Total Credits	20 Credits

Suggested College Preparatory Curriculum

English	4 Credits of comprehensive English
Math	3 Credits including Algebra and Geometry
Science	3 Credits including Biology and Chemistry or Physics
Social Studies	3 Credits including .5 Credit American History .5 Credit U.S. Government .5 Credit Geography (TDA requirement) 1.5 Credits Elective
Health	.5 Credit
Physical Education	.5 Credit
Foreign Language	2 Credits of the same foreign language
Fine Arts	1 Credit (any art or music course)

Post Secondary Education Options

The Ohio Post Secondary Enrollment Options (**PSEO**) Program has been established to permit high school students in grades nine through twelve to earn college and high school graduation credit through the successful completion of college courses. The program is intended to provide expanded opportunities for **appropriately qualified high school students** which allows them to experience coursework at the college or university level. Any high school student admitted to a course by an institution of higher education will be expected and required to perform at the same level as the institution’s regular students. College courses should either contribute to or supplement the broad academic preparation needed by high school students. Credit for highly specialized content college courses generally should not substitute for important broader content college preparatory courses. The window for notifying schools of your intent to participate in PSEO is the month of **March** of the year preceding the year of participation.

Grade Level Placement

High school student grade status is determined by the number of credits the student has earned. Graduation requires 20 credits. Students may move through more than one grade level in a year, depending upon the rate at which they successfully complete course work.

- 0 - 4.75 credits Freshman**
- 5 - 9.75 credits Sophomore**
- 10 - 14.75 credits Junior**
- 15 or more credits Senior**



Course Descriptions

Changes, additions, or deletions in these course descriptions may occur at any time throughout the school year.

English Department

English I

Prerequisite: None

Credit: 1

12 Blocks

Grade Level

9, 10, 11, 12

This course develops an understanding of literary genres (primarily fiction but also nonfiction, poetry, rhetoric, essay and oratory) and communication skills (reading, writing, listening, viewing, speaking, and inquiring). Students will learn how to read and interpret visual images and a variety of oral media and how to understand and use the language in online chats and in written form as well as locating, using, and evaluating information for research.

English II

Prerequisite: English I

Credit: 1

12 Blocks

Grade Level

10, 11, 12

This course builds upon the content, skills and concepts of English I. Students will extend their knowledge of common literary genres (short story, novel, drama, and poetry) from a diverse pool of authors and subject matter. Students will also study different types of essays and persuasive writing, based upon a variety of nonfiction models (autobiography, “self-help” publications, reporting of historical events). Students will develop an understanding of critical thinking skills as they apply to reading, writing, and discussion of literary works and will use these skills to prepare for standardized testing. Students will acquire the vocabulary, grammar, writing, research, and oral communication skills necessary for academic success.

English III

Prerequisite: English II

Credit: 1

12 Blocks

Grade Level

11, 12

English III is a yearlong course designed for the general student of language arts as well as for the college-bound student. The course includes selected readings in American literature from short stories, essays, poems, drama, and novels. Students will write about the literature studied and complete some extended research projects. Students will be encouraged to do original writing with the goal of publication. Students will develop listening and visual communication skills. Students will keep a writer’s journal, study writing as a process, build vocabulary, analyse similar themes in movies, and review grammar skills throughout the year.

English IV

Prerequisite: English III

Credit: 1

12 Blocks

Grade Level

12

The focus of this course is British literature and is geared toward senior high school students. Students will read a broad selection of British literature and complete a comprehensive agenda of assignments designed to foster critical thinking and writing including document research. This class will enable learners to develop and use an expanding knowledge base and essential processes for effective communication.

Math Department

Integrated Math I

Prerequisite: None

Credit: 1

12 Blocks

Grade Level

9, 10, 11, 12

This is an entry-level math course designed to develop and promote lifelong math skills. Students will be introduced to algebraic and geometric concepts as well as exploring real-life applications of mathematics. This is the first of a two-year series designed to meet math requirements for the technical or non-college bound student. Math I will help prepare students for the Ohio Graduation Test.

Integrated Math II

Prerequisite: Integrated Math I

Credit: 1

12 Blocks

Grade Level

10, 11, 12

This is the last of a two-year series designed to meet math requirements for the technical or non-college bound student. In Math II the student will continue to develop their math and problem solving skills. Students will explore topics such as perpendicular and parallel lines, angles, polynomials, data collection and analysis, slopes, graphs, and solving equations. Math II will help prepare students for the Ohio Graduation Test.

Consumer Math

Prerequisite: None

Credit: 1

12 Blocks

Grade Level

11,12

In Consumer Math students focus on arithmetic, numbers, and operations as they investigate properties of fractions, decimals, percents, and integers, and explore the rules that govern their operations. This course will uncover applicable mathematical issues that arise in real-life situations.

Algebra I

Prerequisite: None

Credit: 1

12 Blocks

Grade Level

9, 10, 11, 12

This course will develop algebraic skills and concepts and enhance problem solving ability. Topics will include work with polynomials, quadratics, rational expressions, irrational numbers, coordinate graphing, basic statistics, some computer applications, and introduction to functions. Concepts will be developed to solve equations and inequalities and systems of the same. Problem solving techniques will be employed to solve relevant applications.

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Geometry

Prerequisite: Alg. I

Credit: 1

12 Blocks

Grade Level

10, 11, 12

Properties of geometric figures will be discovered and discussed in this course. Methods of deductive and inductive reasoning will be introduced. The course includes a study of lines, parallelism, triangles, polygons, regular polygons, circles, areas and volumes, and a review of coordinate geometry. The study of trigonometry of the right triangle and transformational geometry will be introduced. Problems requiring algebra skills and concepts will provide continuity from Algebra I to Algebra II.

Algebra II

Prerequisite: Alg. I, Geometry

Credit: 1

12 Blocks

Grade Level

11, 12

This course will review and extend an understanding of the number system, formulas, equations, and graphs. Subject matter includes quadratics, radicals, exponents, and complex numbers. An emphasis will be placed on the mathematical concept of functions and graphing functions by transformational concepts. Logarithms, exponential functions, theory of equations, and conics are introduced during the course.

Advanced Math

Prerequisite: Alg. I & II and Geom.

Credit: 1

12 Blocks

Grade Level

12

This course is designed to prepare the student for the mathematics course taken during the freshman year in college. Topics covered will include the study of functions, both algebraic and transcendental (trigonometry, exponential, logarithmic), their graphs, and their applications. An introduction to mathematical induction, limits, and the discrete topics of sequences and series will be included. A graphing calculator is required.

Science Department

Physical/Earth Science

Prerequisite: None

Credit: 1

12 Blocks

Grade Level

9, 10, 11, 12

Concepts from earth sciences and physical sciences are woven together around the theme of "Earth: Our Home." Students will work individually and in small, cooperative groups to accomplish activities that will allow them to construct and demonstrate new knowledge about the earth and our place in it. Activities will vary from simple written assignments to more elaborate multimedia presentations. Formative assessments will be frequent by means of rubrics co-developed by students and teachers. Summative assessments will be by means of demonstrations and by a final written examination.

Biological Science

Prerequisite: Phys./Earth Sci.

Credit: 1

12 Blocks

Grade Level

10, 11, 12

Biology is the study of life and reactions that drive biological processes. Areas of study include the chemistry of life, the cell, molecular basis of heredity, biological change over time, behaviours and interdependence of organisms and matter, energy and organization in living systems. This course will stress hands-on activities by the student as well as self-guided, investigative studies. Activities will stress scientific inquiry, communication, and applications relevant to society.

Environmental Science

Prerequisite: Phys./Earth Sci.

Credit: 1

12 Blocks

Grade Level

10, 11, 12

Environmental Science is an interdisciplinary study of how humanity affects other living organisms and the non living physical environment. Included in Environmental Science are many interconnected and complex problems involving human numbers, Earth's natural resources, and environmental pollution. Environmental Science is interdisciplinary because it uses and combines information from many disciplines: biology, chemistry, geology, physics, economics, sociology, natural resource management, and politics. This course will be guided by the learner and provide many hands-on and real-life learning opportunities.

Chemistry

Prerequisite: Alg.I, Biological Science

Credit: 1

12 Blocks

Grade Level

11, 12

Chemistry is the systematic study, involving the scientific method, of matter, its properties, composition, and changes. This course will follow a problem-based format considering specific situations in which Chemistry plays a significant part of our lives. Topics will include atomic structure, behavior of gases, chemical bonding, acids and bases, reactions, energy changes, organic and environmental chemistry and more. The use of mathematics is an integral part of this course. The student will encounter many forms of assessment and various learning techniques involving both individual and small group activities.

Astronomy

Prerequisite: None

Credit: .5

6 Blocks

Grade Level

11, 12

This course emphasizes astronomy with a few key concepts in a lab-based format. Historical information is included to provide a foundation in which to explore astronomy and show how we observe the universe from Earth. Topics of the course include the sky, distances, sizes and angles, light, paths of planets, gravity, the solar system, and stars. Using measurements and observations, concepts are explored and applied.



Physics

Prerequisite: Alg. I, Geom., Phys./Earth Sci. **Credit:** 1 **12 Blocks** **Grade Level** 11, 12

Do you have a curiosity about physical laws of nature? Do you enjoy learning about scientific events? If you are planning to continue your education in college or a technical school, then you should consider this course. Physics deals with these main areas: waves, light and sound; force and motion; atomic and modern physics.

Social Studies Department

World History (World Studies, 1750-Present)

Prerequisite: None **Credit:** 1 **12 Blocks** **Grade Level** 9,10,11, 12

Students continue the chronological study of world history, incorporating each of the seven social studies standards. As students study historic eras, they consider the influence of geographic settings, cultural perspectives, economic systems, and various forms of government. Students gain a deeper understanding of the role of citizens and continue to develop their research skills.

Recommended for grade level: 9

American History (United States Studies, 1877-Present)

Prerequisite: None **Credit:** 1 **12 Blocks** **Grade Level** 9, 10, 11, 12

Students continue to study the chronological study of the history of the United States with emphasis on domestic affairs, incorporating each of the seven social studies standards. As students study historic eras, they consider the geographic, cultural, economic and governmental changes that have occurred. Students develop a deeper understanding of their role as citizens and continue to develop command of social studies skills and methods.

Recommended for grade level: 10

US Government

Prerequisite: None **Credit:** .5 **6 Blocks** **Grade Level** 10, 11, 12

Students will complete an in-depth study of the United States government and economy. All seven standards contribute to the students' understanding of the political economic systems of the United States. They will develop a deeper understanding of their roles as citizens and continue to expand their command of social studies skills and methods.

Recommended for grade level: 11,12

Geography

Prerequisite: None **Credit:** .5 **6 Blocks** **Grade Level** 10,11,12

Students will apply their skills and knowledge of geography learned in earlier grades and will participate in projects that will provide them the opportunity to conduct academic research and to utilize the results of this research in considering solutions to real problems and issues.

Recommended for grade level: 11, 12

Psychology

Prerequisite: None **Credit:** .5 **6 Blocks** **Grade Level** 11, 12

This survey course introduces the students to the field of psychology and is designed to give students an introduction to the following topics: a basic history of psychology, theories of learning, the structure and function of the human brain, memory types and processing, cognition (thinking, language development, and problem solving), human intelligence, sensation and perception, motivation and emotion, and abnormal behavior..

Recommended for grade level: 11,12

Economics (Consumer-related)

Prerequisite: None **Credit:** .5 **6 Blocks** **Grade Level** 11, 12

Students learn practical skills of daily economic life, awareness of their own values, and economic decision-making. The course includes using a checking account, figuring credit costs, renting an apartment, buying food and clothes wisely, buying a car, buying different kinds of insurance, and paying taxes. Also included is a brief introduction to capitalism and consumer rights.

Recommended for grade level: 11,12

Physical Education & Health Department

Physical Education

Prerequisite: None **Credit:** .5 **6 Blocks** **Grade Level** 9, 10, 11, 12

Students will participate in physical activities of their choice and report their hours to the instructor. Students will also research and complete various reports regarding nutrition, physical activity, different sports, and other topics. Students are required to complete 120 hours of physical education course instruction, including both physical activities (a minimum of 60 hours for the course) and classroom activities.

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Nike+ Physical Education

Prerequisite: None

Credit: .5

6 Blocks

Grade Level

9, 10, 11, 12

Students will use iPods and Nike+ sports equipment (Sport Kit, Nike+ shoes) to participate in running/walking activities in order to complete physical activity requirements for physical education. Students will also participate in online classroom activities that focus on cardiovascular health, weight control, and nutrition. This is available as of November 1, 2008.

Health

Prerequisite: None

Credit: .5

6 Blocks

Grade Level

10, 11, 12

This class will focus on an understanding of the issues of leading a healthy life. Topics covered during the course are as follows: nutrition, alcohol, tobacco and other drugs, conflict management, injury prevention & control, lifetime sport and leisure skill development, total fitness, mental & emotional health, prevention of disease and infection, and environmental health.

Fine Arts Department

Music Appreciation

Prerequisite: None

Credit: .5

6 Blocks

Grade Level

9, 10, 11, 12

This course is designed for the student to gain knowledge and appreciation for different types of music. Students will learn about the history of various musical styles as well as participate in projects to broaden their understanding of the many different types of music.

Art I

Prerequisite: None

Credit: .5

6 Blocks

Grade Level

9, 10, 11, 12

Contemporary America Art: This art history/appreciation course will explore contemporary American art beginning with the second half of the 20th century and continuing through present-day art. The students will look at the work of specific artists such as Mark Rothko, Edward Hopper, Andy Warhol, Chuck Close, Judy Chicago, Dorothea Lang, and many others. Students will consider how visual arts are influenced by social and political forces and will be expected to participate in thoughtful, personally expressive ways that connect to their lives now and in the future. Students will be required to use available technology to enhance their learning experience.

Art II

Prerequisite: None

Credit: .5

6 Blocks

Grade Level

10, 11, 12

Drawing Studio Foundations: This is a "real life" studio foundations course in drawing. The course covers the selection and organization of art material and workspace as well as the development of art works in various drawing media from the planning stage through completed drawings. We will compare papers, media types, and specific drawing instruments and supplies. Preservation, mounting, and matting of finished drawings will be covered, as well as photographing artwork for slide presentation and the beginnings of portfolio development. Requirements: Students must be proficient in using a scanner. Knowledge and experience in basic photography is recommended. Students will be responsible for obtaining art supplies as needed.

Foreign Languages

Spanish I

Prerequisite: None

Credit: 1

12 Blocks

Grade Level

9, 10, 11

Learners will explore the geography, language, and culture of the Spanish-speaking world. They will gain basic skills in reading, writing, speaking, and listening in Spanish. The course will present basic grammar concepts and vocabulary that is relevant to the learner's everyday experiences. Course assessments will include quizzes, written tasks, audio recordings, podcast assignments, slide presentations, Elluminate sessions, and block tests.

Spanish II

Prerequisite: Spanish I

Credit: 1

12 Blocks

Grade Level

10, 11, 12

Learners will continue to explore the geography, language, and culture of the Spanish-speaking world. They will gain intermediate skills in reading, writing, speaking, and listening in Spanish. The course will present intermediate grammar concepts and vocabulary relevant to the learner's everyday experiences. Course assessments will include quizzes, written tasks, audio recordings, podcast assignments, slide presentations, Elluminate sessions, and block tests.

German I

Prerequisite: None

Credit: 1

12 Blocks

Grade Level

9, 10, 11

This course will help students develop the ability to understand, speak, read, and write German and to acquire knowledge of the people and cultures of the German-speaking countries. In the online classroom there will be a strong emphasis on reading and understanding German. Listening and speaking skills will also be practiced. Students will gain a good knowledge of the grammatical forms and structures of the language. Classroom work will be supplemented by a variety of web-based activities.



German II

Prerequisite: German I

Credit: 1

12 Blocks

Grade Level

10, 11, 12

Students will be introduced to topics currently of interest in German-speaking countries via class discussion, short web-video presentations, and reading selections in the cultural context. Vocabulary and grammar skills introduced in German I will be regularly reviewed and expanded through a variety of reading, speaking, and writing activities. Classroom work will be supplemented by a variety of web-based activities.

Latin I

Prerequisite: None

Credit: 1

12 Blocks

Grade Level

9, 10, 11, 12

Students will focus on acquiring the grammar and vocabulary necessary for basic Latin language construction as well as an understanding of ancient Roman history and culture.

Additional Electives

Reading for Pleasure

Prerequisite: None

Credit: .5

6 Blocks

Grade Level

11, 12

This course is designed to provide special assistance in the development of the reading processes for students who cannot construct meaning from what they read. Students will be provided instruction in the study of print materials, which have noteworthy content and excellence of style. Literature may be identified by country, type and/or period of time.

Study and Testing Skills

Prerequisite: None

Credit: .5

6 Blocks

Grade Level

9, 10, 11, 12

Study Skills reviews productivity software basics, defines several study strategies and helps shape a productive attitude towards life and learning. We read Sean Covey's motivational text *Seven Habits of Highly Effective Teens* in Block 3. The remaining Blocks practice the components of the Ohio Graduation Test. Composition and Reading are covered in depth, but the other tests are practiced through the online aid: *Study Island*.

Child Development/Parenting

Prerequisite: None

Credit: .5

6 Blocks

Grade Level

9, 10, 11, 12

Child Development/Parenting focuses on the wellness of the student/parent as an individual, as a competent parent and care giver, and on the health and wellness of children. It covers aspects of parenting and child development from pregnancy and birth through the teen years. This class is not for girls only. It will provide valuable information about health and human physiology that applies to everyone. As individuals, fathers, members of families, and members of society as a whole, we all contribute in some way to the well-being of children. The course provides information and learning activities intended to expose the student to a wide range of topics and issues relevant to a young person's typical experience as a parent or potential parent.

Technology Applications

Prerequisite: None

Credit: .5

6 Blocks

Grade Level

9, 10, 11, 12

Technology Applications introduces useful computer applications. Students will learn about computers, their history and the Internet. Students will also learn about word processing, database management, spreadsheet creation and graphics manipulation. Students will be evaluated through completed projects demonstrating knowledge and skills learned.

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OGT Math

Prerequisite: None

Credit: .5

6 Blocks

Grade Level

10, 11, 12

This course is designed to help students prepare for the mathematics section of the Ohio Graduation Test (OGT). This test is taken for the first time in March of a student's sophomore year. The course will provide many practice problems, test taking tips, and Study Island work.

OGT English

Prerequisite: None

Credit: .5

6 Blocks

Grade Level

10, 11, 12

This course is designed to help students prepare for the reading and writing sections of the Ohio Graduation Test (OGT). This test is taken for the first time in March of a student's sophomore year. The course will provide many practice questions and answers, test taking tips, and Study Island work.

Career Exploration—Health Services

Prerequisite: None

Credit: .5

6 Blocks

Grade Level

9, 10, 11, 12

The primary purpose of this course is to assist students in making career choices related to health occupations. Students will discover the many options available in the health care industry and examine the professional preparation that is needed for success and employment. Topics will include the history of health care, personal characteristics of a health care worker, ethical/legal aspects, safety and infection control, and personal wellness. Students will become familiar with entry-level medical terms, procedures, practice and knowledge related to health careers and have the opportunity to job shadow a health professional. In addition, students will be encouraged to explore health professions through assignments, observations, and interviews.

Career Exploration—Animal Science

Prerequisite: None

Credit: .5

6 Blocks

Grade Level

9, 10, 11, 12

Have you ever wanted to know more about the animal you saw standing along a farm fence? Have you ever considered where the meat in the grocery comes from? This class will answer these questions and more and give you the basics that you need to know to explore a career in the animal industry.

Career Exploration—Culinary Arts

Prerequisite: None

Credit: .5

6 Blocks

Grade Level

9, 10, 11, 12

The primary purpose of this course is to assist students in studying the science of culinary arts. Students will study the aspects of proper food preparation and have an opportunity to practice these skills.

Millennial Studies

Prerequisite: None

Credit: .5

6 Blocks

Grade Level

12

Students will select **SIX** individual units of study based on areas of personal interest from the list below. Select carefully as we cannot easily change your selections once made. When successfully completed, students earn one-half (.5) elective credits toward graduation. This course is aligned to Ohio's technology standards, is project-based, and has 21st century learning skills embedded in the content. *Only open to seniors or by special permission.*

Individual units available for the 2009-10 school year (units are subject to change) include:

- | | |
|---|--|
| <ul style="list-style-type: none"> African-American Fiction African American Leaders - Block 1 African American Leaders - Block 2 African American Leaders - Block 3 Amateur Stage Performance Attraction: Liking and Loving Others Book Club: "Maximum Ride: The Angel Experiment" Book Club: "The Outsiders" Create a Culture Civil Rights: We Shall Overcome Easy Arts & Crafts Fact or Fiction: Political Intrigue Fact or Fiction: Sports Fact or Fiction: War Exploring Your Past and Contemplating Your Future Getting to Know Ohio Golf How to Draw Cartoons iMovie Basics | <ul style="list-style-type: none"> Independence: Renting Your First Place Mythology: American Indian & Polynesian Mythology: Aztec, Mayan & Incan Mythology: Chinese, Japanese & Hindu Mythology: Egyptian & African Mythology: Greek Mythology: Roman, Celtic & Nordic The Psychology of Gender Role Simple Science Experiments SAFE - Substance Abuse Prevention Course and Resources Sports Fiction The Stock Market TDA Teen Zine Violence and Conflict Warren G. Harding: From Ohio to the White House Writing for Publications You and Your Money - Part 1 You and Your Money - Part 2 |
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PASS (Program for Assisting Student Success)

Prerequisite: Instructor approval

PASS courses are available to high school students who are accepted into the PASS program. Students must live in a location that has high speed internet available to be in the PASS program. The curriculum is fully automated and does not require attachments or the use of drop boxes. All courses cover traditional curriculum and receive the same credit awarded in our traditional track. To enroll in the program, please contact Ms_Brown through News and Resources in ANGEL. Current course offerings include (list is subject to change):

English 1	Algebra 1	Chemistry	World Economics
English 2	Geometry	Early American Heritage	Global Cultures
English 3	Algebra 2	American History	Civics
English 4	Trigonometry	World History	International Studies
Math 1	Life Science	Geography	Life Skills
Math 2	Physical Science	Government	Data Analysis
Consumer Math	Biology		

Algebra 1 (No Prerequisite. 1 credit):

This course will develop algebraic skills and concepts and enhance problem solving ability. Topics will include work with polynomials, quadratics, rational expressions, irrational numbers, coordinate graphing, basic statistics, some computer applications, and introduction to functions. Concepts will be developed to solve equations and inequalities and systems of the same. Problem solving techniques will be employed to solve relevant applications.

Algebra 2 (Prerequisite = Algebra 1, Geometry. 1 credit):

This course will review and extend an understanding of the number system, formulas, equations, and graphs. Subject matter includes quadratics, radicals, exponents, and complex numbers. An emphasis will be placed on the mathematical concept of functions and graphing functions by transformational concepts. Logarithms, exponential functions, theory of equations, and conics are introduced during the course.

American History (No Prerequisite. 1 credit):

This course covers the years of 1865 through the Clinton/Bush years. Students will study the Indian way of life, the Industrial nation, Reformation, involvement in WWI through the Great Depression, involvement in WWII, Civil Rights through the Vietnam and Cold War, and prosperity then terrorism.

Biology (Prerequisite = Physical Science. 1 credit):

Biology is the study of life and reactions that drive biological processes. Areas of study include the chemistry of life, the cell, molecular basis of heredity, biological change over time, behaviors and interdependence of organisms and matter, energy and organization in living systems. Activities will stress scientific inquiry, communication, and applications relevant to society.

Chemistry (Prerequisite = Algebra 1, Biology. 1 credit):

Chemistry is the systematic study, involving the scientific method, of matter, its properties, composition, and changes. This course will follow a problem-based format considering specific situations in which Chemistry plays a significant part of our lives. Topics will include atomic structure, behavior of gases, chemical bonding, acids and bases, reactions, energy changes, organic and environmental chemistry and more. The use of mathematics is an integral part of this course. The student will encounter many forms of assessment and various learning techniques.

Civics (No Prerequisite. 1 credit):

This course will cover questions such as, What are Politics and Government? What is Democracy? It will also talk about basic concepts of power and authority, citizenship, and involvement in world affairs. Economic systems will be covered which will include the foundations of economy, market economy, business cycles, governmental influence and the purpose/effects of institutions among many other pieces that make up government and economics.

Consumer Math (No Prerequisite. 1 credit):

This course will cover the mathematics of discounts, wages, income Tax, and money management. It will also focus on interest, credit, economics, and finance. The second semester of the course will explore fractions, ratios, measurement, statistics, and percents.

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PASS (Program for Assisting Student Success)

Data Analysis (No Prerequisite. .5 credit):

Covers reading, computing, and constructing graphical data. You will learn how to collect data. There will be scenarios of different data collected in locations around the world and you will read and analyze the information-problem solving. You will learn different ways to apply data skills to your everyday life.

Early American Heritage (No Prerequisite. 1 credit):

This history course covers the time period before 1492 through 1877. It will cover how the early people created the foundation of American culture, exploring and colonizing, the establishment of the thirteen colonies, colonial life, Independence, Americans governing themselves, and the creation of the U.S. Constitution. It will then cover the leadership of the New Nation, conflicts during the Age of Jackson, moving towards the Pacific, division of the North and South, the Civil War, and Reconstruction.

English 1 (No Prerequisite. 1 credit):

This course develops an understanding of literary genres (primarily fiction but also nonfiction, poetry, rhetoric, essay and oratory) and communication skills (reading, writing, listening, viewing, speaking, and inquiring). Students will explore the use of prior knowledge in reading, interpreting science vocabulary, the proper usage of vocabulary, punctuation, facts/opinions, and visualizing when they read. Students will also focus on reading and writing letters, making inferences, correcting sentence fragments, and enriching their vocabulary.

English 2 (Prerequisite = English 1. 1 credit):

This course builds upon the content, skills and concepts of English I. Students will extend their knowledge of common literary genres (short story, novel, drama, and poetry) from a diverse pool of authors and subject matter. Students will also study different types of essays and persuasive writing, based upon a variety of nonfiction models. Students will develop an understanding of critical thinking skills as they apply to reading, writing, and discussion of literary works and will use these skills to prepare for standardized testing. Students will acquire the vocabulary, grammar, writing, research, and communication skills necessary for academic success. Topics covered will include reading skills, essay writing, and presentations.

English 3 (Prerequisite = English 2. 1 credit):

English III is a yearlong course designed for the general student of language arts as well as for the college-bound student. The course includes selected readings in American literature from short stories, essays, poems, drama, and novels. Students will develop listening and visual communication skills. Topics covered include effective writing, analyzing literature, writing process, and research.

English 4 (Prerequisite = English 3. 1 credit):

The focus of this course is British literature and is geared toward senior high school students. Students will read a broad selection of British literature and complete a comprehensive agenda of assignments designed to foster critical thinking. This class will enable learners to develop and use an expanding knowledge base and essential processes for effective communication. It will also cover symbolism, interpretation of drama, and documenting research.

Geography (No Prerequisite. 1 credit):

Students will apply their skills and knowledge of geography learned in earlier grades and will participate in assignments. Topics covered include the earth, the United States, Canada, Europe, Russia, and Oceania.

Geometry (Prerequisite = Algebra 1. 1 credit):

Properties of geometric figures will be discovered and discussed in this course. Methods of deductive and inductive reasoning will be introduced. The course includes a study of lines, parallelism, triangles, polygons, regular polygons, circles, areas and volumes, and a review of coordinate geometry. The study of trigonometry of the right triangle and transformational geometry will be introduced. Problems requiring algebra skills and concepts will provide continuity from Algebra I to Algebra II.

Global Cultures (No Prerequisite. .5 Credit):

Covers the politics, government, social and cultural influences of Africa, China, Japan, Latin America, Middle East, South & Southeast Asia.



PASS **(Program for Assisting Student Success)**

Government (No Prerequisite. .5 Credit):

Students will complete an in-depth study of the United States government and economy. All seven standards contribute to the students' understanding of the political economic systems of the United States. They will develop a deeper understanding of their roles as citizens and continue to expand their command of social studies skills and methods.

International Studies (No Prerequisite. .5 Credit):

Covers prehistory to modern times, geography, and climate of Africa, China, Japan, Latin America, Middle East, South & Southeast Asia.

Life Science (No Prerequisite. 1 credit):

This course will cover Cells and Cell Structure along with Mitosis, Meiosis, and Blood/Immunity. It will also cover things such as the classification of life, Kingdoms, and Ecology. After studying the basics of life, the course will develop into Genetics and Heredity along with human health and reproduction. It will touch on genetics and how things change over time.

Life Skills (No Prerequisite. 1 credit):

Covers basic life skills-how to handle jobs, friends, parenting, etc (first part scenarios). One section focuses on small group communication (team work) in employment situations. Another covers workplace writing – the different kinds of writing that take place in the workplace you may need to know. You will learn about Business basics – how a business is run and how your role as an employee is crucial.

Math 1 (No Prerequisite. 1 credit):

This is an entry-level math course designed to develop and promote lifelong math skills. Students will be introduced to algebraic and geometric concepts as well as exploring real-life applications of mathematics. This is the first of a two-year series designed to meet math requirements for the technical or non-college bound student. Math I will help prepare students for the Ohio Graduation Test.

Math 2 (Prerequisite = Math 1. 1 credit):

This is the last of a two-year series designed to meet math requirements for the technical or non-college bound student. In Math II the student will continue to develop their math and problem solving skills. Students will explore topics such as perpendicular and parallel lines, angles, polynomials, data collection and analysis, slopes, graphs, and solving equations. Math II will help prepare students for the Ohio Graduation Test.

Physical Science (No Prerequisite. 1 credit):

Concepts from earth sciences and physical sciences are woven together around the theme of "Earth: Our Home." Topics will include: Understanding and measuring matter, atoms, elements, and compounds, physical and chemical properties, as well as the periodic table, bonding and types of compounds and chemical reactions. It will also explore properties and sources of energy, heat, and magnetism/electromagnetism. Properties and behaviors of sound and light will be explored as well as motion and Newton's laws.

Trigonometry (Prerequisite = Algebra 1, Geometry, Algebra 2. .5 credit):

This course covers different aspects of Trigonometry: Right Angles, Radian Measures, Circular Functions, Trigonometric functions, Graphing Functions, Identities of single variables, Trigonometric Identities, Trigonometric Equations, Inverse Trigonometric Functions, Laws of Sines and Cosines, and Polar Coordinates.

World Economics (No Prerequisite. .5 credit):

Covers the Economic influences and International relations of Africa, China, Japan, Latin America, Middle East, South & Southeast Asia.

World History (No Prerequisite. 1 credit):

Students continue the chronological study of world history, incorporating each of the seven social studies standards. As students study historic eras, they consider the influence of geographic settings, cultural perspectives, economic systems, and various forms of government. Students gain a deeper understanding of the role of citizens and continue to develop their research skills. This course covers the Enlightenment through the present.