

# OHDELA!

the ohio distance & electronic learning academy

## High School Course Description Book

2017-2018

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## Ohio High School Diploma Requirements (Classes of 2014 -2017)

English Language Arts	<b>4</b> units
Mathematics	<b>4</b> units (must include Algebra II or its equivalent)
Science	<b>3</b> units (must include Physical Science, Biology, and an Advanced Science elective)
Social Studies	<b>3</b> units (must include ½ unit of US History, ½ Unit of Government, ½ Unit of Financial Literacy & Economics and 1.5 units of Social Studies electives)
Health	½ unit
Physical Education	½ unit
Fine Arts	<b>1</b> unit (Students who have completed 2 semesters of fine arts in 7 <sup>th</sup> or 8 <sup>th</sup> grade may take 1 extra credit of electives instead of this unit, if the fine arts appear on the transcript.)
Electives	<b>4</b> units  ***Students who plan to attend college should take 2 units of foreign language as their electives.***

OHDELA recommends that each student be enrolled in five to seven classes each semester (2.50 to 3.50 credit hours). By successfully completing five to seven classes students will be able to meet the graduation credit requirements within 4 years.

OHDELA reserves the right to not offer any courses listed in this guide due to low student interest.

You will be assigned your classes with assistance from your Academic Advisor. Your advisor is there to help you achieve your high school goals and beyond. Contact the Academic Advising Team if you have any questions. 1-800-493-8680.

## **Graduation Requirements 2018 and Beyond**

### *Credit Requirements*

<b>Ohio requires students to take and complete a minimum of 20 required credits.</b>	<b>State Minimum</b>
English language arts	4 units
Health	½ unit
Mathematics	4 units <sup>1</sup>
Physical education	½ unit <sup>2</sup>
Science	3 units <sup>3</sup>
Social studies	3 units <sup>4</sup>
Electives	5 units <sup>5</sup>
Additional credits, if any, in district requirements	
<b>Other Requirements</b>	
Economics and financial literacy <sup>6</sup>	
Fine arts <sup>6</sup>	

**AND**

#### **Ohio's State Tests**

Students **earn a cumulative passing score of 18 points**, using seven end-of-course state tests. To ensure students are well rounded, they must earn a minimum of four points in math, four points in English and six points across science and social studies.

#### **End-of-course exams are:**

- Algebra I<sup>7</sup> and geometry or integrated math I and II
- Biology
- American history and American government
- English I and English II

Students also may substitute grades from College Credit Plus courses in these science and social studies subjects for end-of-course state exams.

## Requirements for an Honors High School Diploma (Classes of 2011 & Beyond)

Subject	*In addition to meeting minimum requirements, students must fulfill all but one criterion for and of the following to earn a Diploma with Honors
Mathematics	A higher level course (beyond Algebra II or the equivalent) or a four-year sequence of courses which contains equivalent content
Science	<b>4</b> units, including physics and chemistry
Social Studies	<b>4</b> units
Foreign Language	<b>3</b> units of the same language or <b>2</b> units of two different languages
Fine Arts	<b>1</b> unit
Grade Point Average	Maintain a <b>minimum of 3.5</b> on a 4.0 scale
ACT/SAT Score	<b>27 ACT / 1210 SAT</b>  Writing sections of either standardized test should not be included in the calculation of this score.

## OHDELA High School Courses 2017-2018

**All courses in this book are aligned to Ohio's New Learning Standards for students in grades 9-12.**

**To be successful in Ohdela's classes, students must have a willingness to complete homework, participate in classroom discussion, engage in live class and help sessions, and have the ability to meet deadlines.**

### Language Arts

#### English I -1 credit

This is an introductory course that stresses exploration in literature. The literature is approached through both theme and genre. English instruction is integrated, where appropriate, with science and social studies. Instruction is based on the Common Core State Standards and covers literary and informational text, writing conventions and applications, research, and speaking and listening skills.

#### English II -1 credit

English II is a 10th grade course which presents a year-long study of World literature. This course includes numerous types of reading and writing, including fiction and nonfiction. Students will take the information and knowledge gained from the reading, activities, and analyses and then apply it to real life situations. Students will be asked to demonstrate their knowledge and reasoning skills to various classroom challenges, while also honing their skills as writers. The main goal of English II is to create an environment that supports critical thinkers, writers, and communicators.

**Prerequisites: 1 credit in English Language Arts**

#### English III -1 credit

English III is an 11th grade course which presents a year-long study of American Literature through both historical American documents and writings from famous American authors and poets. This course includes multiple types of reading and writing, including fiction and nonfiction.

**Prerequisites: 2 credits in English Language Arts**

#### English IV -1 credit

This 12th grade English course presents a year-long study of British literature. Students will apply a wide range of strategies to comprehend, interpret, evaluate, and appreciate informational and literary text. Students will use the writing process to communicate effectively with a variety of audiences for different purposes. Students will create and discuss print and non-print texts. Students will use spoken, written, and visual language to accomplish their own purposes.

**Prerequisites: 3 credits in English Language Arts.**

## **Creative Writing I- 1/2 credit Fall only**

Creative Writing A will explore a variety of writing, with students studying published material in order to develop their own style. This course has been designed as an intro course, but is advanced, and is intended for students who write, and want to improve their knowledge and skills in creative writing overall. Students will be required to attend live learning sessions or view recorded lessons, contribute to a discussion board, draft original pieces in each area, revise drafts in each area, as well as develop a portfolio of revised pieces of writing as an authentic assessment in the form of a presentation.

**Prerequisites: English 1 & 2**

## **Communications - 1/2 credit Fall only**

Are you looking to sharpen your communication and public speaking skills? Have you considered a career in communications? In this course, students study, listen to and model different types of speeches, including informative, persuasive and dramatic. Students learn to develop a topic, conduct research to support their ideas and incorporate listener feedback. Students also learn public speaking techniques as well as how to incorporate 21st century and traditional multi-media aides in their presentations.

## **Grammar and Composition – 1/2 credit**

This course encourages the student to organize, to use good transition, to revise and to edit. It covers punctuation, grammar as it affects sentence fluidity, and correct sentence structure. The course stresses critical thinking and provides writing practice.

Working through this course will add to the student's understanding of the elements and process of English grammar and composition since the course stresses critical thinking and provides writing practice with many opportunities to hone skills in various situations.

## **Journalism - 1/2 credit- Spring only**

This course prepares students for careers in media – newspapers, magazines, and writing for news websites. The course presents news gathering, researching, and interviewing skills as a means to stimulate and structure student writing into the most logical and readable forms of news writing, feature writing, sports writing, and commentary. Students will also examine law and ethics that pertain to the student press. An understanding of computerized page design and desktop publishing is also gained. Students who take this course should be interested in writing and interviewing others about the community around them.

# Mathematics

## Algebra I - 1 credit

Students in this introductory Algebra course will be using skills acquired from previous math classes to set up equations by applying problem-solving skills to find the solution of real world problems. We will be studying and exploring the following topics: relations, functions, graphing, systems of equations, radicals, exponential functions, factoring polynomials, rational equations, probability and statistics, and quadratic functions. It emphasizes practical methods of solving first- and second-degree equations and inequalities.

## Geometry - 1 credit

Geometry will be building upon what you learned in Algebra I and middle school math. This year will focus directly on Geometry, but will incorporate your algebra skills to make connections and solve problems. Mathematical reasoning is introduced with a study of triangle congruency, including exposure to formal proofs, and geometric constructions, other essential triangle concepts, including similarity, right triangle trigonometry, special triangles, and the Laws of Sines and Cosines. Students justify and derive various formulas for circumference, area, and volume, as well as cross-sections of solids and rotations of two-dimensional objects. Students also study slopes of parallel and perpendicular lines, parabolas in the coordinate plane, and an in-depth investigation of the geometry of circles.

**Prerequisite: Algebra I**

## Algebra 2 - 1 credit

Algebra II is designed to build on algebraic and geometric concepts. Algebra II develops advanced Algebra skills such as systems of equations, advanced polynomials, imaginary and complex numbers, quadratics, radicals, and logarithmic functions. It also introduces matrices and their properties. A scientific calculator will be required. The content of this course is important for student success on both the ACT and college mathematics entrance exam.

**Prerequisite: Geometry**

## Consumer Math - 1 credit

In Consumer Math, students study and review arithmetic skills they can apply in their personal lives and in their future careers. The first semester of the course begins with a focus on occupational topics; it includes details on jobs, wages, deductions, taxes, insurance, recreation and spending, and transportation. In the second semester of Consumer Math, students learn about personal finances, checking and savings accounts, loans and buying on credit, and housing expenses.

## Pre-Calculus - 1 credit

Pre-calculus is an excellent college preparatory course, whether or not one intends to pursue mathematics further. A number of concepts from previous courses are reviewed and expanded upon. New areas include rational functions, radical functions, conic sections, parametric equations, polar equations, vectors, sequences and series, mathematical induction, areas of oddly-shaped polygons, and trigonometry, including functions, graphs, applications and proofs.

**Prerequisite: C or higher in Algebra 2 or Teacher Approval**

## Trigonometry - ½ credit-Spring only

This course will explore trigonometry and its related components. The first few units will focus on Right Triangle Trig, the definitions of the six Trig functions and how they relate to solving right triangles. The unit circle will be developed and explored in addition to applications of radians as they relate to arc length, linear and angular speed. Trig graphs will be investigated, including their transformations and how they can be used to solve equations. A thorough review of trig identities is included, in addition to the Law of Sines and Law of Cosines, to be used to solve oblique triangles.

**Prerequisite: Algebra 2 A**

## Probability and Statistics - 1/2 credit Fall only

From the products you buy to your visits to the doctor's office, the study of statistics and probability permeates a large amount of what makes up modern life. This course is designed to expose students to introductory statistics and probability. Topics will include: gathering and understanding data, measures of central tendency, describing and modeling distributions, investigating regressions, statistical sampling, designing experiments, probability, and inference.

**Prerequisite: Algebra 1 and Geometry**

# Social Studies

## Modern United States History - 1 credit

This course examines the history of the United States of America from 1877 to the present. The federal republic has withstood challenges to its national security and expanded the rights and roles of its citizens. The episodes of its past have shaped the nature of the country today and prepared it to attend to the challenges of tomorrow. Understanding how these events came to pass and their meaning for today's citizens is the purpose of this course. The concepts of historical thinking introduced in earlier grades continue to build with students locating and analyzing primary and secondary sources from multiple perspectives to draw conclusions. The focus of study will be placed on the following themes: The Constitution and overview of US Government, economics in US History, foreign affairs, the Civil Rights Movement, and the effect of history on the United States today.

## American Government - 1/2 credit

This is a ONE semester course where students will investigate the history of Ohio and United States Government and learn how to participate effectively in civic life in America. Students will examine fundamental constitutional principles; the organization of government at the federal, state, and local level; the rights and responsibilities of citizenship; the policy-making process; political parties and elections; and the interaction of the Government with the economy. How the American people govern themselves at national, state and local levels of government is the basis for this course.

## Financial Literacy/Economics - 1/2 credit

In this course, students will attain the ability to read, analyze, manage and communicate about the personal financial conditions that affect material well-being. Topics include the ability to discern financial choices, discuss money and financial issues without (or despite) discomfort, plan for the future, and respond competently to life events that affect every day financial decisions, including events in the general economy.

## Modern World History - 1 credit

Students will study topics in World History including the Renaissance, the Scientific Revolution, the Age of Exploration, the Enlightenment, the Industrial Revolution, imperialism, nationalism, the First and Second World Wars, the Cold War, and globalization

## Psychology -1/2 credit – Fall only

Introduction to Psychology is an elective course that is designed to introduce students to the systematic and scientific study of human behavior and cognition. This course presents students to the broad fields of psychology, as well as the most significant research.

## Sociology -1/2 credit –Spring only

This course is designed to introduce students to the study of human society and social behavior through social interaction and social phenomenon. The focus of this course is on how individuals behave in group settings

# Science

## Physical Science - 1 credit

Physical science introduces students to key concepts and theories that provide a foundation for further study in other sciences courses and further studies. Physical science comprises the systematic study of the physical world as it relates to fundamental concepts about matter, energy and motion. Students develop an understanding of phenomena in physical, living, and Earth and space systems, along with historical perspective and mathematical reasoning.

## Biology - 1 credit

This compelling course engages students in the study of life and living organisms. The course encompasses traditional concepts in Biology and encourages exploration of new discoveries in the field of science. The components include biochemistry, cell biology, cell processes, heredity and reproduction. Students will utilize investigations to comprehend and explain living things in a variety of situations that incorporate scientific reasoning, analysis, and applications to the natural world.

## Environmental Science - 1 credit

Environmental Science is an advanced science that focuses on the study of the human impact on our environment. With a population of over 7 billion and counting, humans are causing a variety of problems in the environment such as: pollution, extinction of species, depletion of resources, and global climate change. Environmental science incorporates elements of biology, chemistry, physics and physical geology. Investigations are used to understand and explain the behavior of nature in a variety of inquiry and design scenarios that incorporate scientific reasoning, analysis, communication skills and real-world applications

## Physics - 1 credit

Physics is a course designed to give students an overview of college level, algebra based physics. Over the course of the year, students will study Kinematics, Dynamics, Momentum, Rotational Motion, Energy, and Waves. This course will give students an appropriate knowledge base if they choose to move on to AP Physics the following year. Students must have a strong background in mathematics in order to succeed. They are also expected to complete several real-world projects that involve the major topics covered in class. For students considering a degree in a scientific field (i.e. engineering, medicine, software design...) the course will provide an introduction to topics that will be part of the student's college curriculum.

**Prerequisites: Biology and Physical Science, Algebra I**

## **Chemistry - 1 credit**

Chemistry is an advanced science course that introduces students to key concepts and theories that provide a foundation for further study in other sciences courses and further studies.

Chemistry comprises a systematic study of the predictive physical interactions of matter and subsequent events that occur in the natural world. The study of matter through the exploration of classification, its structure and its interactions is how this course is organized. Investigations are used to understand and explain the behavior of matter in a variety of inquiry and design scenarios that incorporate scientific reasoning, analysis, communication skills and real-world applications. An understanding of leading theories and how they have informed current knowledge prepares students with higher order cognitive capabilities of evaluation, prediction and application.

**Prerequisites: Biology and Physical Science**

## **Anatomy and Physiology -1 credit**

This is an advanced science course designed for students interested in the human body and students interested in any health profession. Anatomy is the branch of science that deals with the shape and structure (morphology) of body parts. Physiology concerns the functions of those body parts and how they work together to complete the organism. The course begins with medical terminology that will be used throughout the year. There is a short review of basic chemistry and a review of cells (the basic unit of life). After that, all 11 systems of the human body will be discussed.

**Prerequisites: Biology and Physical Science**

# Health/Physical Education

## Health - ½ credit

Good health is both mental and physical. Making good decisions starts with knowing the facts, understanding the consequences, and having the confidence to choose well. Students will explore many different topics including fitness, nutrition, food labels, and pathogens, mental and emotional health, stress, Maslow's Hierarchy, emotions and self-esteem. Lifestyle diseases, tobacco, alcohol, over the counter medications, and other drugs are also topics covered. The course also takes an in-depth look at first aid, treating injuries and responding to common injuries.

## Physical Education - ½ credit

Physical Education examines the difference between physical activity and exercise. Students begin to understand the many benefits that exercise has to offer. Students will set short and long term SMART goals and put them into action in a personal fitness plan. Topics also included in this course include exercising safe and smart, by avoiding, preventing, and treating sports injuries. Rules and concepts of games and sports are also explored. Students will complete a personal PE journal, documenting their exercise over the course of the semester.

# Fine Arts

## Graphic Arts & Design I – ½ credit

Have you considered a career in the growing field of graphic arts? Are you interesting in learning more about the tools and technology used to create 21st century digital designs? This introductory course covers the basics of design elements, typography, color and spatial relationships as well as gives students a chance to use a wide variety of digital tools to create logos, digital flyers, marketing pieces and more. In addition, students are given an overview of the history and emergence of graphic design as an art form as they explore the growing field of graphic design as it relates to communication, advertising and marketing.

## Graphic Arts & Design II-1/2 credit

Are you ready to go beyond the foundational skills of graphic arts and begin to explore more complex methods, projects and tools? This course challenges students to create web designs, marketing pieces and interactive projects. In addition, students will explore the role of communication and team work while working on projects for mock clients. Students will develop a portfolio of work appropriate for college applications in this exciting and interactive course.

## Digital Music Production – ½ credit

Are you interested in learning how to create electronic music such as house, dub-step, techno and other forms of digital music? Are you interested in a career in music production? Technology has changed music and given us tools to create new sounds and techniques. This course provides students an understanding of the technology used to create and produce electronic music using a variety of digital tools including virtual instruments, drum machines, and virtual/digital synths. Students will explore rhythm, composition, song structure and beat and have a chance to create and produce their own electronic music.

## Music History -1/2 credit

In this course, students will learn where music began. An emphasis will be placed on learning about music, instruments and composers starting with ancient music and continuing with music from the Renaissance, Baroque, and Classical periods, then focusing on the Romantic and Jazz eras. Students will also study musical theater, the importance of a musical score to film & television, and explain how music was and is used in daily life

## Other Electives

### Spanish I - 1 credit

This is an introductory course designed for students with little or no previous study of Spanish. Some students in class might have studied Spanish in middle school, but have not grasped some of the important structures of the language. This course teaches basic language patterns and vocabulary. Repetition and comprehensible output are important components of this course. Focus is on all four language skills listening, reading, speaking and writing. Culture is an integral part of the course and is introduced through the use of media, readings and class discussions. In addition to written tests and quizzes, students may also be assessed by means of aural activities. Homework assignments are an integral part of this course; they reinforce concepts and skills introduced and explored in class, which enable students to participate in class in a meaningful way. Active participation is required and ability and willingness to memorize vocabulary and grammatical concepts.

**Prerequisites: English 1**

### Spanish II - 1 credit

Spanish II is a continuation of the skills learned in Spanish I. Students build on their knowledge of vocabulary and sentence structure and cultural aspects of the Spanish-speaking countries. The emphasis of the course is on further development and refinement of the four language skills: listening, reading, writing and speaking, and on the culture of the Spanish-speaking world.

Students begin to apply the language in "real-life" situations such as having conversations in Spanish.

Students can expect daily written assignments, homework, frequent quizzes and tests. Active participation is required. In addition to written tests, students are also assessed by means of oral activities.

**Prerequisite: Successful completion of two semesters of Spanish I**

### Spanish III - 1 credit

The Spanish III curriculum includes the study of culture and an in-depth study of complex grammar structures. It focuses on increasing fluency in the areas of speaking, reading, writing and listening comprehension. Emphasis will be placed on interpersonal writing and speaking, interpretive listening and reading and presentational writing and speaking. Therefore, students actively participate and interact with others on a daily basis and do several written and

oral presentations. Spanish 3 also involves the discussion and research of various aspects of culture in Spanish speaking world, including history, artists, writers, designers and Hispanics present in contemporary society.

**Prerequisite: Successful completion of Spanish I and Spanish II.**

### **Career Connections I - 1/2 credit**

This course prepares students to become career-focused and career-committed while learning how to make effective decisions about their futures. Students will research career goals and develop action plans in order to achieve their goals. With the overarching themes of career exploration and planning, this course will address: personal learning inventories, career investigations, habits of success, and effective decision-making.

### **Career Connections II- 1/2 credit**

This course teaches students the importance of preparation and planning of a career path. Students will also see how decisions made about their career path also affects other areas of their life. They will learn that people work for many different reasons and that income can be earned in many ways.

### **Child Development and Parenting -1/2 credit**

What's it really like to have and raise a child? What is the role of child development in early childhood education? This course provides students in depth information and instruction on the roles and responsibilities that come along with parenting. Students are given a clear understanding of the financial and life impact of deciding to become a parent, along with information on the basics of parenting at each age and stage. In addition, students are provided information about child development and are given an opportunity to apply this knowledge to either parenting choices or careers in early childhood education.

### **Computer Applications and Coding Basics – ½ credit**

This course will teach students the basic skills needed to use word processing, spreadsheets, and presentations to evaluate data or communicate information to an audience. Students will also learn about digital footprints, appropriate use of the internet, internet searching techniques, and coding basics.

### **Foundations of Business and Entrepreneurship**

This course will teach you the foundations of business, including the principles of planning and starting a new business, financing and managing your business, along with the study of standard business practices. Learn what it means to possess the “entrepreneurship spirit” and the role that entrepreneurship has played in our economy. Examine the factors that go into being a successful entrepreneur and business owner.

