

Lordstown Senior High School

Course Description Catalog 2013 - 2014



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Lordstown High School Graduation Requirements

Credits	Subject Area	Notes
4	English	
1/2	Health	One semester
4	Math	One credit of Algebra II or equivalent
.5	Physical Educ.	Two semesters
3	Science	Inquiry-based laboratory experience that engages students in asking valid scientific questions and gathering/analyzing information, which shall include the following, or their equivalent <ul style="list-style-type: none"> • One credit each of physical, life, and advanced science Advanced study in one or more of the following sciences, 1 credit: <ul style="list-style-type: none"> ○ Chemistry, Physics, or other Physical Science ○ Advanced Biology or other Life Science ○ Astronomy, Physical Geology, or other Earth/Space Science.
3	Social Studies	American & World History, United States Government
.5	Technology	Desktop Publishing (grade 9 required course)
7	Electives	One of which must include business/technology, fine arts, or foreign language AND one of which must include financial literacy (see counselor or principal for further information).
		Successful passage of all five sections of the Ohio Graduation Test (OGT) or End of Course (EOC) exams as determined by the Ohio Department of Education.

A minimum of 22 credits is required for graduation from Lordstown High School.

All students must also complete two semesters or the equivalent of fine arts to graduate from high school. The coursework may be completed in any of grades seven to twelve.

Recommended College Prep Curriculum for those students preparing to enter a 4-year college/university program

- 4 credits Academic English
- 4 credits Social Studies
- 4 credits Math (minimum of Algebra I, Geometry, and Algebra II)
- 4 credits Lab Science (including Biology, Chemistry, and Physics)
- 2 credits Foreign Language (minimum)
- 1 credit Fine Arts

Note: Students are strongly encouraged to go beyond these minimums. Most colleges and universities recommend that students take science and math classes each year of high school for a minimum of 4 credits in each discipline. Doing so better prepares students for their freshman year of post-secondary education.

College Readiness Tests

All students should consider taking either the ACT with writing or the SAT at least once during their junior year of high school, regardless of post-secondary plans. Those who plan to attend college may find it helpful to take the test more than once. Many scholarships are tied to the ACT or SAT score. See Mrs. Czeck for more information or check the following websites:

- www.actstudent.org
- www.collegeboard.com

Ohio Honors Diploma
Students must meet 7 of the 8 criteria

Traditional High School

4 Credits Academic English
4 Credits Social Studies
4 Credits Math – Algebra II or above
4 Credits Science – including Physics and Chemistry
3 Credits Foreign Language
1 Credit Fine Arts
3.5 GPA on a 4.0 scale
27 ACT Composite **OR** 1210 SAT

Career/Technical School

4 Credits Academic English
4 Credits Social Studies
4 Credits Math – Algebra II or above
4 Credits Science – including Physics & Chemistry
4 Credits Career/Technical courses
3.5 GPA on a 4.0 scale
27 ACT composite or 1210 SAT
Proficient for appropriate Ohio Career-Technical Competency Assessment

Classes may have fees which vary from year to year and from class to class. A fee schedule is available in the high school office.

All courses listed within this booklet are not necessarily offered each school year.

**Courses are full year unless otherwise noted. Course selections may have prerequisites.
If you do not meet the prerequisite requirements,
you will not be permitted to enroll in the class.**

ART

ART I (1 credit) Grades: 9, 10, 11, 12

CONTENT: Introduction to various aspects of the visual arts: application of art terms, art appreciation, development of skill and techniques using a variety of media, expression of original ideas.

ART II (1 credit) Grades: 10, 11, 12

PREREQUISITE: ART I

CONTENT: Continued development of skills and the application of art techniques. Students will broaden their general knowledge in the visual arts and continue progress regarding the sophistication and originality of ideas.

ART III (1 credit) Grades: 11, 12

PREREQUISITE: ART II

CONTENT: Students should be prepared to:

1. Develop individual styles by generating and expressing ideas while choosing material and techniques.
2. Demonstrate continued development of skill when using varying techniques.
3. Broaden knowledge regarding all aspects of the visual art

ART IV (1 credit) Grade 12

PREREQUISITE: ART III

CONTENT: The purpose of this course is to:

1. Prepare the serious student for college or post secondary education in art.
2. Require students to prepare a portfolio for presentation
3. Encourage students to develop individual styles and concentrate on areas of interest
4. Help students broaden their knowledge regarding all aspects of the visual arts.

BUSINESS AND TECHNOLOGY

DESKTOP PUBLISHING

(1/2 credit) Grade 9 REQUIRED

CONTENT: A computer applications class which will focus on mastery of Microsoft Word, Excel, PowerPoint, and Publisher, as well as programs such as Google Docs and LibreOffice. These programs are used to create documents and other work that can be used to analyze or report data. This can be done for personal, academic, and/or business use.

PC TROUBLESHOOTING & MAINTENANCE (1/2 credit) Grades: 9, 10, 11, and 12

PREREQUISITE: Successful completion of Computer Intro or Desktop Publishing

COURSE: Utilization of discussion and hands-on practice to problem-solve and learn the process to fix PC issues, maintain systems, prevent problems, and to think critically, logically, and collectively to solve computer issues. Repairing and maintaining computers entails thinking, researching, and using the scientific method.

DIGITAL MEDIA (1/2 credit) Grades: 9, 10, 11, and 12

PREREQUISITE: Successful completion of Computer Intro or Desktop Publishing with grade of "C" or better.

CONTENT: Students will learn how to manipulate and edit video, pictures, and sound as well as infuse multimedia into webpages that will be created in this course. Learning and correctly applying the terminology related to multimedia is also a focus of this course. The emphasis will be on digital photography and photo editing. Other topics would include sound recording and editing, video recording and editing, basic web design, and principles of design and print layout.

This course replaces Multimedia.

BUSINESS/ACCOUNTING (1 credit) Grades: 11 and 12 (10th with teacher permission)

PREREQUISITE: Successful completion of Computer Intro or Desktop Publishing with grade of "C" or better.

CONTENT: Accounting is the "language of business". Students will learn how a business manages money through the exploration of assets, liabilities, and owner's equity. Advanced topics in this course will include computer-based accounting systems, starting and running a business, types of business ownership, financial management, business checking, taxes, marketing and sales. Topics that may also be included: banking, stock market, investing, and personal income taxes. If you would like to better understand how to manage your personal finances *and* that of a small business, this may be the course for you. This course may also be the first step to a career in the field of accounting or other areas of business.

3D MODELING & DRAFTING (1/2 credit: Grades 9, 10, 11, 12)

PREREQUISITE: Successful completion of Multimedia or Digital Media with a grade of "C" or better.

CONTENT: Students will learn how to explore, explain, and present their ideas using 3D modeling software such as Google Sketchup and AutoDesk. Students will design a product from conception including draft, implementation, and sales.

COMPUTER PROGRAMMING (VISUAL BASIC 6.0) (1 credit) Grades: 11, 12 (10th upon recommendation of counselor or teacher)

PREREQUISITES: Computer Introduction & Algebra I ("C" or higher in both classes)

CONTENT: Learn to better understand your computer by developing your own applications using Microsoft Visual Basic. *Visual Basic* is an easy to use "hands-on" programming language that allows one to develop windows-based applications. This course may be the first step in a career as a computer programmer. Programming principles learned here may be transferred to various other programming languages.

ENGLISH/LANGUAGE ARTS

GRADES 9-12 – REQUIRED ENGLISH COURSE OPTIONS:

ADVANCED ENGLISH 9, 10, 11, 12: The classes in this four-year programmed course of study assume a basic knowledge of grammar, vocabulary, literature and writing skills, and continue to build those skills. This program is intended for those students who plan to continue their education beyond a high school diploma.

ACADEMIC ENGLISH 9, 10, 11, 12: The purpose of this program of study is to continue to develop and reinforce basic English grammar, literature, vocabulary, and writing skills. It emphasizes practical skills and is designed for the student who will be attending college, a technical school, or entering the work force.

ACADEMIC ENGLISH 9 (1 credit) Grade: 9

PREREQUISITE: Language Arts 8

CONTENT: This course is an integrated language arts study. It will focus on developing reading and writing skills through literature study and varied writing experiences. It will also feature development of listening skills, visual literacy, and oral communication. Special attention will be given to applied communications including goal setting and social and business skills in the workplace.

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ADVANCED ENGLISH 9**(1 credit) Grade: 9**

PREREQUISITE: A 3.0 or better grade average in Language Arts 8

CONTENT: In this course the major focuses will be in the following five areas:

1. COMPOSITION: the objectives will be to refine the areas of purpose, direction, ideas, style and presentation.
2. GRAMMAR AND MECHANICS: higher level grammar skills will be studied and the mechanics skills will be reviewed and refined.
3. VOCABULARY: a program of systematic vocabulary growth will be continued to develop skills necessary for college placement tests and broad-ranged communications.
4. LITERATURE: the elements of a short story will be reviewed. The Greek and the Shakespearean play will be introduced. Novels, projects, and poetry are also part of the academic literature.
5. ORAL PRESENTATION: Students will write and present informative and persuasive speeches.

ACADEMIC ENGLISH 10**(1 credit) Grade: 10**

PREREQUISITE: Grade 9 English

CONTENT: In this course the major focuses will be in the following four areas:

1. COMPOSITION: The student will build on his ability to write a well-developed paragraph, and begin writing a multi-paragraph essay, using the principles of purpose, direction, ideas, style and presentation.
2. GRAMMAR AND MECHANICS: Grammar and mechanics skills will be reviewed and refined.
3. VOCABULARY: Using a systematic approach to vocabulary growth, the student will continue to develop vocabulary skills necessary for broad-ranged communication.
4. LITERATURE: Students will learn to identify and use such literary terms as plot, theme, characterization, irony, and figurative language in conjunction with the reading of short stories, plays, poems, and novels.

ADVANCED ENGLISH 10**(1 credit) Grade 10**PREREQUISITE: "C" or better in the grade 9 Advanced English or a "B" in Academic English 9 **AND** teacher recommendation.

CONTENT:

1. COMPOSITION: The student will continue to refine his writing skills; concentration will be on writing multi-paragraph essays, some of which relate to literature assignments.
2. GRAMMAR AND MECHANICS: The study of grammar continues with the focus on phrases, clauses, and verbals.
3. VOCABULARY: A program of systematic vocabulary growth continues, with emphasis placed on the skills needed for college-placement tests as well as broad ranged communication skills.
4. LITERATURE: The student will read, discuss, and write about such literary forms as short stories, poems, plays, and novels. The use of such literary terms as theme, characterization, irony, satire, figurative language, and tone will be included in the writing and the discussion.

ACADEMIC ENGLISH 11**(1 credit) Grade: 11**

PREREQUISITE: Grade 10 English

CONTENT:

1. COMPOSITION: The student will develop multi-paragraph compositions and work on the skills of defining purpose, organizing, generating ideas, developing style, and producing an acceptable manuscript. Resumes and letters of application will also be included.
2. VOCABULARY: A systematic study of vocabulary will be continued to broaden and enhance the student's range of effective communication.
3. GRAMMAR: Basic rules will be reviewed with emphasis placed on the importance of clear communication.
4. LITERATURE: The short stories, personal narratives, poetry and plays will focus on America (present and past). Our most skillful writers and thinkers will be examined.

ADVANCED ENGLISH 11**(1 credit) Grade: 11**PREREQUISITE: "C" or better in Advanced English 10 or a "B" or better in Academic English **AND** teacher recommendation.

CONTENT: Students survey the literary contributions of American authors. Emphasis in composition is placed upon the process of writing a multi-paragraph composition. Students enhance their grasp of the patterns of standard written English. Along with the shorter composition forms practiced this year, the student will also learn to gather information for, organize and write a research paper, which is required by the state course of study.

ACADEMIC ENGLISH 12**(1 credit) Grade: 12**

PREREQUISITE: Grade 11 English

CONTENT:

1. COMPOSITION: This course continues to reinforce basic writing skills. Business communications and resumes will also be reviewed. Students will also write journals, essays, and summaries, some of which relate to assigned literature.
2. VOCABULARY: A culmination of a six-year vocabulary study will be made with a complete course in vocabulary workshop.
3. LITERATURE: Students will read and discuss novels, essays, plays, poetry, and short stories.
4. ORAL PRESENTATION: Students may be required to conduct an interview and/or do a demonstration speech

ADVANCED ENGLISH 12**(1 credit) Grade: 12**PREREQUISITE: "C" or better in Advanced English 11 or a "B" in Academic English 11 **AND** teacher recommendation.

CONTENT: In this course, students will survey British literature, from the Anglo-Saxon period to the twentieth century. Emphasis is placed on critical reading of the texts, and compositions explicating the texts, which include poetry, prose, and drama. This is the culmination of a six year vocabulary study, with special emphasis placed on derived forms of words, analogies, and vocabulary skills needed for college placement tests.

ADVANCED PLACEMENT (AP) ENGLISH LITERATURE & COMPOSITION (1 credit) Grade: 12

PREREQUISITES: "B" or higher in Advanced English 11(exception: "B" or higher in Academic English for the 2012-2013 school year)

CONTENT: The AP English Literature and Composition course is designed to engage students in the careful reading and critical analysis of imaginative literature. Through the close reading of selected texts, students can deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. As they read, students should consider a work's structure, style, and themes, as well as such smaller-scale elements as the use of figurative language, imagery, symbolism, and tone.

The course should include intensive study of representative works from various genres and periods, concentrating on works of recognized literary merit. The works chosen should invite and gratify rereading. Reading in an AP course should be both wide and deep. This reading necessarily builds upon the reading done in previous English courses. Such close reading involves the experience of literature, the interpretation of literature, and the evaluation of literature. All these aspects of reading are important for an AP course in English Literature and Composition, and each corresponds to an approach to writing about literary works. Writing to understand a literary work may involve writing response and reaction papers along with annotation, freewriting, and keeping some form of a reading journal. Writing to explain a literary work involves analysis and interpretation, and may include writing brief focused analyses on aspects of language and structure. Writing to evaluate a literary work involves making and explaining judgments about its artistry and exploring its underlying social and cultural values through analysis, interpretation, and argument.

NOTE: Students are required to take the AP English test in May. AP Test Fee approximately \$89.00
A summer reading project is a required part of this course. Once a student registers for the AP program he/she must remain in the class the entire year.

PUBLIC COMMUNICATIONS/SPEECH (1/2 credit – semester course) Grades: 10, 11, 12

CONTENT: Public Communications prepares students for presentations in high school and entry level college. The course presents an overview of communications and how a message affects listeners. Students will cover the following and more: group dynamics, analytical listening, panel discussion, effective language, interviewing research and information gathering, delivery methods, speeches that inform and persuade, special occasion speaking, dramatic interpretation, debate, parliamentary procedure, recorded voices and image reporting, and incorporation of technology into a speech.

CREATIVE WRITING I, II (1/2 credit each - semester course) Grades: 10, 11, 12

CONTENT: This advanced writing course is designed to refine basic composition skills while developing originality in a variety of written forms. The course will include exposure to techniques of creative authors and will stress the application of literary devices in developing imaginative expression. For the most part, students will choose their own topics. A literary magazine will be considered. A journal will be required.

MEDIA & SPEECH (1 credit) Grades: 9, 10, 11, 12

CONTENT: Media & Speech is a communication intensive course that will promote the application of student interpersonal skills, verbal and written work, presentation skills, and interview skills. Students will be required to

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produce the school student newspaper in conjunction with their instructor, produce other school publications, and school communication productions.

FAMILY AND CONSUMER SCIENCES

INTERNATIONAL CUISINE (1/2 credit – semester course) Grades 9, 10, 11, 12

PREREQUISITE: Successful completion of Healthy & Safe foods in grade 8 or for high school credit.

CONTENT: Students will examine various cultures of the world, sample common foods, and prepare recipes from other countries or regions of the United States. Each student will demonstrate the process used to create a dish with an international connection and share the recipe with the rest of the class. Special attention is devoted to the development and knowledge of healthy dietary practices which promote wellness. Global issues contributing to nutritional deficiencies and hunger will be addressed. A willingness to try new foods is required.

HEALTHY AND SAFE FOODS (1/2 credit semester course) Grades: 9, 10, 11, 12

CONTENT: High school students will develop skills in acquiring and practicing a healthy lifestyle using dietary guidelines that reduce the risks of chronic disease and the development of unsafe habits. They will master the skills needed to safely prepare and store food, use written recipes, reduce the risk of food borne illness, and evaluate the impact of consumer choice on the environment and global community.

CAREER SEARCH (1/2 credit semester course) Grades: 11, 12

CONTENT: Students will develop, implement, and periodically review and revise a career blueprint in the context of their life choices, changing employment trends, societal needs, and economic conditions. They will analyze and document personal interests, talents, skills, aptitudes, and values in relation to career options. Special attention is devoted to the development of core employability skills needed by all students to succeed in school and by all workers to succeed in the workplace.

CHILD DEVELOPMENT (1/2 credit – semester course) Grades: 9, 10, 11, 12

CONTENT: Students will discover the needs of infants and young children and how parents and childcare providers can meet those needs for healthy growth and development. They will recognize challenges faced by parents and the differences in individuals, cultures, circumstances, and development rates of young children. Proper prenatal care and care of the newborn will be addressed. Career choices in the field of childcare will be explored.

FINANCIAL MANAGEMENT (1/2 credit – semester course) Grades: 9, 10, 11, 12

CONTENT: The students will develop attitudes and skills needed to achieve personal financial wellness by learning the implications of sound financial decision-making, the appropriate use of credit, and adequate insurance. Connections between values, spending decisions, income, and education will be examined.

MANAGING TRANSITIONS (1/2 credit – semester course) Grades: 9, 10, 11, 12

CONTENT: Students will take a closer look at each of the life changes we experience at various stages in our lives. Students will develop personal assets that make them caring, healthy, and responsible people. They will learn techniques to resist unhealthy influences; observe the impact of technology on relationships; respond to conflict without hostile intent; establish boundaries; respect diversity; resolve conflicts peacefully; and show concern for individuals, family, and community. Students will learn the importance of accepting personal responsibility for the management of individual, family, and environmental resources.

FOREIGN LANGUAGE

SPANISH I (1 credit) Grades: 9, 10, 11

PREREQUISITE: 2.5 or better in English AND teacher recommendation

CONTENT: The aim of Spanish I is to give to the students a new mode for communicating their ideas and experience in Spanish.

1. Emphasis is placed on pronunciation, speaking and understanding.
2. Elementary reading and writing will be introduced.
3. Students will copy or read material which has been mastered orally.
4. Students will study the elementary aspects of Spanish grammar.
5. Students will appreciate the cultural aspects of the Hispanic civilization.

SPANISH II (1 credit) Grades: 10, 11, 12

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PREREQUISITE: "C" OR BETTER IN SPANISH I AND TEACHER RECOMMENDATION

CONTENT: Spanish II is a chronological continuation of Spanish I. Continued emphasis will be placed on the development of the spoken language. Additional emphasis will be placed on the development of reading and writing skills.

1. Oral and aural practice will continue through conversation, dialogues, and oral accuracy.
2. Students will enlarge their vocabulary through further acquisition of reading and writing skills.
3. Students will begin a formal analysis of Spanish grammar through already learned grammatical patterns.
4. Students will be introduced to the finest Spanish culture through appropriate reading topics.
5. Students will continue the development of writing skills through controlled material.

SPANISH III

(1 credit) Grades: 11, 12

PREREQUISITE: "C" OR BETTER IN SPANISH II AND TEACHER RECOMMENDATION.

CONTENT: In Spanish III, more emphasis will be placed on reading and writing. A proportioned emphasis will be maintained on listening comprehension and speaking since complete concentration of any of the four language skills will lead to the deterioration of the others. There will also be reports, essays, and compositions written in this course in Spanish.

SPANISH IV

(1 credit) Grade: 12

PREREQUISITE: "C" OR BETTER IN SPANISH III AND TEACHER RECOMMENDATION.

CONTENT: In Spanish IV, a continued emphasis will be placed on reading, writing, and oral proficiency. Students will be expected to achieve a "Survival" level of comprehension, enabling them to travel in a Spanish speaking country. A term paper in Spanish is part of the writing requirement for this course.

MATHEMATICS

MATH I

(1 credit) Grade: 9

CONTENT: This course will enable students to gain a working knowledge of basic and intermediate concepts from arithmetic, algebra, geometry, statistics, and probability. This course will prepare students for a more rigorous mathematical progression in high school or college and will provide them with a solid foundation for the mathematics that may occur in their careers and in everyday life. It will also develop a student's problem-solving skills, critical thinking abilities, and strengthen situational analysis abilities. At the end of the course students will be prepared to continue math studies in Math II. The course follows the Integrated Pathway in the Common Core State Standards.

MATH II

(1 credit) Grade: 10

PREQUISITE: Successful passage of Math I or equivalent

CONTENT: This course will expand on many of the concepts from algebra, geometry, statistics, and probability that were covered in Math I. In addition, elementary topics concerning functions and set theory will be addressed. This course will further prepare students for a more rigorous mathematical progression in high school or college and will provide them with a solid foundation for the mathematics that may occur in their career and everyday life. It will also develop a student's problem-solving skills, critical thinking abilities, and strengthen situational analysis abilities. At the end of this course the student will be prepared for Math III or geometry. (Math III would be recommended to meet the Algebra II equivalent.) The course follows the Integrated Pathway in the Common Core State Standards.

MATH III

(1 credit) Grade: 11

PREQUISITE: Successful passage of Math II or equivalent

CONTENT: This course will expand on many of the concepts from algebra, geometry, statistics, and probability that were covered in Math II. In addition, functions, set theory, and trigonometry will be addressed. This course will further prepare students for a more rigorous mathematical progression in high school or college and will provide them with a solid foundation for the mathematics that may occur in their career and in everyday life. This course will also develop a student's problem-solving skills, critical thinking abilities, and strengthen situational analysis abilities. At the end of the course the student will be prepared for Math IV or an alternate math class upon recommendation from the teacher. Math III follows the Integrated Pathway in the Common Core State Standards and is an Algebra II equivalent.

MATH IV

(1 credit) Grade: 12

PREQUISITE: Successful passage of Math III or equivalent

CONTENT: This class addresses Algebra II with trigonometry concepts (including functions, complex numbers, functions, logarithms and trigonometric functions and identities, sequences and series) with additional time for mastery.

ALGEBRA I**(1 credit) Grades: 9, 10**

PREREQUISITE: *To take algebra in ninth grade, student should have no lower than a "C" average in Math 8. An algebra aptitude test may be given. It is recommended that if the student receives less than 70% he/she consider Math I. Another consideration in course selection will be preparation for the OGT (last year for OGT will be the 2013-2014 school year) which is required for graduation and whose content may not be covered completely in Algebra I.*

CONTENT: The course actively involves students in constructing and applying mathematical ideas. Topics covered include data analysis, algebraic expressions, inequalities, linear and quadratic equations, systems of equations and inequalities, polynomials, radical geometric and rational expressions. Using small cooperative groups, technology, whole class instruction and activities, students solve real life situations.

GEOMETRY**(1 credit) Grades 9, 10, 11**

PREREQUISITE: "C" average in Algebra I

CONTENT: Geometry emphasizes the structural Unity underlying all mathematics and incorporates algebra in the study of geometry. Studied first are the elements of geometry, followed by inductive and deductive reasoning necessary to present a logical argument or a formal proof of a proposed conjecture. Angle relationships, perpendicular and parallel lines are developed and used with congruent triangles to show relations between plane figures. Circles, lines, and angles are used also for purposes of construction and location. Areas of plane polygons and circles are expanded to solid figures. In this course students explore conjectures in order to construct a mathematics that empowers them to solve interesting and relevant problems.

ALGEBRA II**(1 credit) Grade: 11-12**

PREREQUISITE: "C" in Math II

CONTENT: Algebra II is a study of linear and non-linear equations and graphs, systems of equations, matrices, polynomials, rational expressions, and basic trigonometry. Complex numbers and logarithmic and exponential functions are also introduced. This "fundamental" course is similar to the other Algebra II course; however, this course will move at a slightly slower pace. The problems assigned throughout the course will both maintain and improve proficiency in algebraic skills.

ADVANCED ALGEBRA II**(1 credit) Grades: 10, 11, 12**

PREREQUISITE: Algebra I **AND** Geometry (a "B" in Algebra I)

CONTENT: Algebra is an abstract study of the way numbers behave and interrelate. Algebra is not difficult; it is just different. Review is given to all the topics in Algebra I. The student will learn to write and graph linear equations, work with functions, polynomials, solve linear and quadratic equations. Complex numbers, exponential and logarithms are introduced along with basic right triangle trigonometry. Problems of direct and inverse variations studied, also area and volume. Every problem in every set should be worked to stain and maintain proficiency in these algebraic skills.

STATISTICS**(1 credit) Grades: 11, 12**

PREREQUISITE: "C" in Algebra II

CONTENT: Intended for college-bound students interested in business, management, economics, math, or the life/social sciences where Calculus and other higher-level math courses may not be required. Topics to include basic probability, statistics, counting techniques, elementary matrix algebra, mathematics of finance, logic, game theory, and operations research techniques. **THIS COURSE MAY BE TAKEN AS A COLLEGE IN HIGH SCHOOL COURSE THROUGH YSU FOR QUALIFIED STUDENTS.**

PRE-CALCULUS (ALGEBRA III)**(1 credit) Grades: 11, 12**

PREREQUISITE: "B" in Algebra II

CONTENT: Designed to prepare students for a comprehensive calculus course, it continues the development begun in Algebra I and Algebra II. Practice in the fundamental skills of algebra, geometry, and trigonometry is provided while advance topics are introduced and practiced. Emphasis is on the algebra of logarithms and exponentials, all phases of trigonometry including trigonometric equations, identities, and the equations and graphs of sinusoids. Also included are matrices, determinants, arithmetic and geometric series, conic sections, and functions including curve sketching.

CALCULUS**(1 credit) Grade: 12**

PREREQUISITE: "B" in PRE-CALCULUS (ALGEBRA III)

CONTENT: For those who are interested in math, engineering, physics, business, or the life sciences. Contains reviews of Algebra, Trigonometry, and Analytical Geometry that are necessary for success in Calculus. It contains an in depth coverage of all topics normally taught in the first two semesters of a three semester calculus sequence. Exponential and Logarithmic Functions are studied in detail. Continuity with left and right hand limits appear through the book. Analytic geometry involves both conics and graphing of rational functions. Derivatives are taken of algebraic

and transcendental functions. Integration is studied as “anti-differentiation” and as an area of summation of rectangles. **THIS COURSE MAY BE TAKEN AS A COLLEGE IN HIGH SCHOOL COURSE THROUGH YSU FOR QUALIFIED STUDENTS.**

CONSUMER MATH (1 credit) Grades 11, 12

PREREQUISITE: Successful passage of 10th grade math OGT (*last year for OGT will be the 2013-2014 school year*) **AND** students must possess 2 high school Math credits.

CONTENT: This math course is designed for those individuals who are not on a college math track. Students will learn fundamental concepts of percent, interest, budgeting and other mathematical processes that are useful in everyday life. Some typical examples include determining how credit card interest is determined, learning how to save and budget money in order to purchase a new car or home, an introduction to financial markets and balancing a check book.

MUSIC

SECONDARY BAND (1 credit) Grades: 9 - 12

CONTENT: Offered to students in grades 9-12 who have had previous experience on one of the standard band instruments. The class meets daily and is devoted to the development of individual, small ensemble, and large group performances of standard band literature. Students will be expected to do a certain amount of out of class practice on their instruments and attend scheduled performances during the school year as determined by the band director. Admission to this class is by permission of band director.

JAZZ ENSEMBLE (1 credit) Grades: 9, 10, 11, 12

CONTENT: Offered to students in grades 9-12 who have had previous experience on an instrument and who have an interest in jazz and popular music. The class meets daily and is devoted to the development of solo and ensemble performance. Member are expected to do a certain amount of out-of- class practice on their instrument, attend and perform at home basketball games, and other out of school performances as determined by the director. Membership in the High School Band is also strongly encouraged. Admission is by permission of the director.

INDIVIDUAL MUSIC SKILLS Grades: 9, 10, 11, 12

Credits vary with the number of days of participation based on students' schedule.

PREREQUISITE: A member of secondary band or jazz ensemble and participate in a band contest.

CONTENT: This course allows the student to improve his/her music skills through extra practice and instruction. Students will be expected to illustrate their improved talents through participation in band contests.

CHOIR (1 credit) Grades: 9, 10, 11, 12

CONTENT: This course is for the student who enjoys singing and wants to vocally perform with a group and possibly individually. Performances throughout the year at various concerts may be required.

HISTORY OF ROCK 'N ROLL (1/2 credit) Grades: 9, 10, 11, 12

CONTENT: The History of Rock 'N Roll, a semester based elective, is an in-depth study of the origins of popular music of the 20th century and the social and historical content that gave birth to it and related genres and musical offshoots. From blues and country to punk and heavy metal, students will familiarize themselves with landmark groups, music, and movements of different periods, exploring connections between modern music and the artists from the past who have paved the way for the popular music of today. This course may include daily writing, listening to music, reports, and reading relevant texts/articles. **THIS COURSE MAY FULFILL PART OF THE FINE ARTS REQUIREMENT.**

MUSIC SURVEY (1/2 credit) Grades: 9, 10, 11, 12

CONTENT: This course is intended to help students develop a more profound understanding and appreciation for music. Students will study representative composers, genres, and selected works from various eras of music history, develop the ability to think analytically about music, to evaluate it, and to understand that music envelopes civilization, history, culture, and the values of societies that produced it. **THIS COURSE MAY FULFILL PART OF THE FINE ARTS REQUIREMENT.**

PHYSICAL EDUCATION AND HEALTH

PHYSICAL EDUCATION I (1/4 credit – semester course) Grade: 9 REQUIRED COURSE

CONTENT: This Physical Education course is designed to help students achieve the following:

Respect. Responsibility. Pride.

1. Demonstrate competency in motor skills and movement patterns needed to perform a variety of physical activities.
2. Demonstrate an understanding of movement concepts, principles, strategies and tactics as they apply to the learning and performance of various physical activities.
3. Participate regularly in physical activity.
4. Achieve and maintain a health-enhancing level of physical fitness.
5. Exhibits responsible personal behavior and social behavior that respects self and others in physical activity settings.
6. Value physical activity for health, enjoyment, challenge, self-expression and/or social interaction.

Content of the course deals with the utilization level of game play and skills in chasing and fleeing activities, cooperative activities, target activities, net & wall activities, invasion activities, fielding activities, aquatic activities, and fitness activities. This course's fitness, skill, peer, personal, written, and project assessments are formative and summative.

PHYSICAL EDUCATION II

(1/4 credit - semester course) Grade: 10 REQUIRED COURSE

CONTENT: Physical Education 10 is a continuation of Physical Education 9 with classroom performance expectation levels at proficient.

HEALTH

(1/2 credit – semester course) Grade 9. REQUIRED COURSE

CONTENT: This Healthy Behaviors 2 course is designed to help students achieve the following:

1. Comprehend concepts related to health promotion & disease prevention to enhance health.
2. Analyze the influence of family, peers culture, media, technology, and other factors on health behavior.
3. Demonstrate the ability to access valid information and products and services to enhance health.
4. Demonstrate the ability to use interpersonal communication skills to enhance health and avoid or reduce health risks.
5. Demonstrate the ability to use decision making skills to enhance health.
6. Demonstrate the ability to use goal-setting skills to enhance health.
7. Demonstrate the ability to practice health enhancing behaviors and avoid or reduce risks.
8. Demonstrate the ability to advocate for personal, family, and community health.

Students will learn about emotional health, nutrition, the life cycle, disease, & environmental health. Course assessments will be formative and summative.

INDIVIDUAL SKILLS OF PHYSICAL EDUCATION

(1/4 credit – semester course) Grades: 11, 12 (May not be repeated)

CONTENT: This class is geared towards recreational physical activities. Once the student has completed their requirements for Physical Education at the 9th and 10th grade level, they may sign up for Individual Skills. This course is designed to provide opportunities to participate in leisure time sports and challenge the student to gain fitness in an enjoyable way. The focus will be on personal fitness for an active lifestyle. This course may also include swimming.

SCIENCE

PHYSICAL SCIENCE

(1 credit) Grade: 9 REQUIRED COURSE

CONTENT: A full year class required of all freshmen students. Students will develop concepts regarding chemistry, physics, astronomy, geology, and environmental science. This study will deal with how nature is cyclical and how the universe changes in predictable ways. Lab activities will reinforce course objectives. This class is not open to any student who has completed any upper division science course. **NOTE:** This course does NOT fulfill the Ohio Honors Diploma lab science requirement.

BIOLOGY I

(1 credit) Grade: 9 - 12

PREREQUISITE: Successful passage of Physical Science in grade 9

CONTENT: Basic biology is a survey of four kingdoms. Monera, Protista, Animalia, Planatae. A study of cell and organismal reproduction, microbiology, invertebrates, vertebrates, plants, and the biology of man will help the students to point out his relationship to his environment. As part of the class students will use various labs and dissections as a way to show and see the similarities and differences that exist between a wide variety of organisms. This course requires much memorization. The text will require a high degree of reading proficiency and comprehension. Additionally, there will be an emphasis on OGT concepts. **(Lab course)**

BIOLOGY II

(1 credit) Grades: 10 – 12

PREREQUISITE: Grade of "B" or better in Biology I

CONTENT: An inquiry-based continuation of Biology I with dissections of complex organisms that will aide in the understanding of the ways in which different species had evolved over time and an extended emphasis on human anatomy and physiology.

CHEMISTRY**(1 credit) Grades: 11 - 12**

PREREQUISITE: Grade of "B" or better in Integrated Science II or Biology AND grade of "B" or better in both Algebra I and Geometry

CONTENT: The study of the elements is based upon family relationships, as determined by atomic structure and valence. As the topics are studied the student will have related experience in the laboratory. Fundamental chemical theory is introduced based upon modern chemical principles and their applications. Consideration is given to the concept of atomic structure and its application to chemical bonding; oxidation and reduction; electrochemistry and electro negativity. The treatment of spectroscopy, crystallography, colloids, metallurgy, fuels, plastics, rubber, silicones, nutrition, and nuclear energy are also included. **(Lab course) NOTE: This course meets the advanced science requirement.**

PHYSICS**(1 credit) Grade: 12**

PREREQUISITE: Grade of "B" or better in Chemistry or a "C" in chemistry AND the successful passage (75%) or better of a departmentally developed Chemistry readiness test. Also required is the successful passage in two college prep math courses (Algebra I, II, Pre-calculus, and Geometry).

CONTENT: Physics is the study of the matter and is divided into the following general areas: mechanics and properties of matter, heat-light and sound, and electricity. **(Lab course) NOTE: This course meets the advanced science requirement.**

EARTH SCIENCE**(1/2 credit – semester course) Grades: 11 - 12**

PREREQUISITE: Successful passage of Physical Science and Biology I. Course must be taken in sequence with Space Science.

CONTENT: In this course, students will take an in depth look at plate tectonics, geology, mineralogy, and natural disasters. The course will require much reading and memorization. There will also be incorporated a lab time within the class.

SPACE SCIENCE**(1/2 credit – semester course) Grades 11 - 12**

PREREQUISITE: Successful passage of Physical Science and Biology I. Course must be taken in sequence with Earth Science.

CONTENT: In this course, students will take an in-depth look at constellations, star formations, the solar system, space technology, and more. Lab classes will incorporate visits to the planetarium.

SOCIAL STUDIES**WORLD HISTORY****(1 credit) Grade: 9 REQUIRED COURSE**

CONTENT: World History deals with the high spots of man's experience, the events which have most significantly affected the course of his life on earth. By studying the past students will learn how we gained our civilization, as well as learning about the people we are indebted to for our present way of life. Students, learning how people lived in the past, can benefit by learning their mistakes and correcting them in the future. Outside reports of interest to the lesson are presented from time to time. There may be projects, newspapers, magazines, television, or library searches dealing with our lesson.

UNITED STATES HISTORY**(1 credit) Grade: 10 REQUIRED COURSE**

CONTENT: Students will study U.S. History from 1865 to the present. Students will study important issues, people, and events so that they can develop a sense of the past and present.

WORLD GEOGRAPHY**(1/2 credit) Grades: 9, 10, 11, 12**

CONTENT: Global Studies will provide a specific focus on the physical, cultural, and social landscapes of the seven continents. Considering that the Social Studies OGT test places a high emphasis on data analysis from charts, graphs, and story passages, students will analyze these for proficiency. Also, this class will be the preliminary introduction to the basics of higher levels of social studies (types of economies, governments, and social structures). Students will also complete a comprehensive project involving a specific case study about a country.

AMERICAN GOVERNMENT**(1 credit) Grade: 12 REQUIRED COURSE**

CONTENT: The basic content of this course is geared in such a way as to create a group of people who are able to participate in and know about their government. We will do this from a basic introduction of the theories of sovereignty from relevant political theorists to the Founding Fathers. We will also break off the class into the three branches. The

students will participate in a federal example of all three branches by performing in a mock Congress, a presidential election, and a Supreme Court hearing.

ECONOMICS

(1/2 credit) Grade: 9, 10, 11, 12

CONTENT: This course is designed to give students a basic preparation for the use of theory in the real world. The class will have a focus on the practical and theoretical approaches of Economics in everyday life. Some of the topics that will be covered in the class include theories on supply and demand, wages, taxes, investment incomes, and the Federal Reserve System. There will also be practical applications of the class. Students will learn about credit cards, home mortgages, and Individual Retirement Accounts. Knowledge about the monetary system, the banking industry and the Federal Reserve System will be acquired.

PSYCHOLOGY

(1/2 credit) Grades: 11 - 12

CONTENT: This course can best be described as an introduction to Psychology. The main focus in this class will be the basic ideas that will lead to the more concrete concepts of Psychology. Ideas of human development will take shape based on biological processes, brain anatomy, and social constructs. The class will also delve into the philosophical development of man relative to psychological and philosophical theories. Sensation, perception, learning, and other basic concepts will be discussed. Also included in the discussion will be ideas that include behaviorism, psychoanalytic theory, social psychology, existentialism, and epistemology.

SOCIOLOGY

(1/2 credit) Grades: 11 - 12

CONTENT: An understanding of terminology and alert social observation will be two prime concerns in this course. Social experiments and their results will be discussed in an informal atmosphere. Social problems and influences will also be discussed in this class, as well as helping students to develop an understanding of, and respect for, the diverse groups in our society. There will also be an emphasis on current events and current culture relative to social ideas and norms.

STREET LAW

(1/2 credit) Grades: 11 - 12 (10th if 3.5 GPA or above)

CONTENT: Street Law is designed as a practical, participatory course about law, democracy, and individual rights and responsibilities. The goal is for students to develop an understanding of the law as it relates to day-to-day activities. This includes a wide variety of information from Supreme Court knowledge to consumer and financial law. Students will use practical approaches to better understand how law relates to them on a day-to-day basis.

CRITICAL THINKING

(1/2 credit) Grades 9-12

PREREQUISITE: Grade 9 – recommendation of 8th grade Language Arts teacher; grade 10 - B or above in Academic English; grades 11 – 12 must be enrolled in Academic English

CONTENT: Critical thinking is a class designed to teach the student how to develop critical thinking skills with a specific focus on current events. Students will debate current issues, while learning how to argue effectively. By doing this, they will learn how to apply knowledge of argumentation to how they approach other subjects. Students will be required to participate in class. Students will also be required to give presentations and debates with the knowledge they have learned.