

Herscher High School Freshman 2018-2019 Curriculum Guide



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Freshman Curriculum

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ART AND MUSIC CURRICULUM

Subject: Band

Year Offered: 9, 10, 11, 12

Prerequisite: Playing experience from junior high or approval from director

Length of course: 1 year - No Exceptions

Credit: 1 credit

Course Description: The Herscher High School Band Program presently consists of four major organizations: Concert Band, Jazz Band, Marching Band, and Pep Band. By being in Band, students are required to participate in Concert Band, Marching Band, and Pep Band and must be in the class for the entire year. Seating placement for concert is determined by audition after the marching season, and students are required to take part in solo and ensemble contest, organizational contests, all concerts, and all public performances on the band schedule. Individual lessons, writing assignments are also a part of the curriculum for band. Jazz Band is the only extra-curricular ensemble and is not required by all students.

Subject: Orchestra

Year Offered: 9, 10, 11, 12

Prerequisite: Junior High school string experience or instructor's permission

Length of course: 1 year

Credit: 1 credit

Course Description: The Herscher High School Orchestra is open to any student with Junior High experience on violin, viola, cello, or string bass. The Orchestra meets daily to further develop skills and prepare a wide variety of orchestral literature for performances. After completion of the band's marching season, selected wind and percussion players are added to the group to provide full orchestra experience. In addition to concert performance, the orchestra participates in IHSA solo and ensemble contest and organizational contest. Smaller ensembles are formed as needed to provide chamber music experience and community service. **Individual lessons are required for this course.**

Subject: Concert Choir

Year Offered: 9, 10, 11, 12

Prerequisite: Meet with Instructor

Length of course: 1 year - exceptions can be made at directors' discretion

Credit: 1 credit

Course Description: Concert Choir is a non-auditioned, friendly atmosphere choir that is still musically challenging, but with more accessible music to more students. This is open to anyone interested in singing. Additionally students are enrolled in choir lessons to further musical education.

Subject: Art 1

Year Offered: 9, 10, 11, 12

Prerequisite: None

Length of course: 1 semester

Credit: ½ credit

Course Description: The course covers all mediums of art from colored pencil, graphite pencil, watercolor, paint, pastel and printmaking. Projects are focused on learning the basic building blocks to create successful work of art. Various historical artists are used as reference. Students who plan on taking advanced drawing and painting and the graphics art courses are required to take this class.

Subject: Music Survey

Years Offered: 9 10 11 12

Prerequisite: None, other than interest in music, willingness to try new things

Length of Course: 1 semester

Credit: ½ credit

Course Description: This course will serve HHS students who are not enrolled in a music performance class, and who still want to find out more about music.

Students will be able to explore music in a hands-on laboratory setting, including but not limited to: becoming reacquainted with an instrument or trying out a new one, using electronic and internet means to record and create their own arrangements of tunes, composing their own tunes, charting trends in pop music, researching composers and/or bands, and exploring other student-generated topics. This class will provide a framework for further individual study and a jumping-off point for students who wish to expand their participation in performance-based classes. Emphasis is on student-centered topics and concerns.

BUSINESS CURRICULUM

Subject: Intro to Business

Year Offered: 9, 10, 11, 12

Prerequisite: None

Length of Course: 1 semester

Credit: ½ credit

Course Description: This course is designed for students to get an overall view of business and related activities that are practical to real world business situations. Students will learn basic economic principals, basic management and marketing functions and personal financial management while dealing with businesses as a consumer. Students will utilize technology not limited to: 3D Printing/Designing, Adobe Suite, Laser Engraving, Graphic Design Software. Each topic will be related to current issues involving a variety of business related situations. Emphasis will be placed on current issues affecting businesses and consumers. **Students must have a parent signed AUP on file.**

Subject: Desktop Publishing

Year Offered: 9, 10, 11, 12

Prerequisite: None

Length of Course: 1 semester

Credit: ½ credit

Course Description: This skill-level course is designed to address specific desktop publishing features and concepts. The course is not limited to 2 Dimensional design, we will also be utilizing the 3D Printers/Laser engraver that are on hand to publish other forms of advertising/digitally rendered media. Using graphics, fonts, and color, students will create newsletters, magazine ads/advertisements, gift certificates, programs, and tickets. In addition, students will use digital photography and photoshop to create digital images and advertising. Adobe Fireworks and Animate will be used to create animated digital marketing projects as well. This course will give hands-on experience through computer desktop publishing. **Students must have a parent signed AUP on file.**

ENGLISH

Subject: Foundations of English I

Year Offered: 9
Prerequisite: None
Length of Course: 1 year
Credit: 1 credit

Course Description: This course is directed to the student who has experienced special difficulties in reading and grammar. The purposes of the course are to improve the reading level through short story, nonfiction, fiction, poetry, epic, drama, and the novel. Students will also improve vocabulary, grammar, and spelling, composition skills while increasing the student's appreciation and understanding of literature and writing. Essay writing is assigned. A research paper is also required. Students will read and study the following pieces of literature: *That Was Then, This Is Now*; *Tears of a Tiger*; *The Odyssey*; and *Romeo & Juliet*. Various projects related to areas of study will also be assigned.

Subject: English I

Year Offered: 9
Prerequisite: None
Length of Course: 1 year
Credit: 1 credit

Course Description: This course includes the introduction to various types of literature, basic grammatical, writing, spelling, and vocabulary skills. Areas of literature studied include the following: short story, nonfiction, nonfiction, poetry, the epic, drama, and the novel. Essay writing is assigned. A research paper is also required. Students will read and study *To Kill a Mockingbird*, *Tears of a Tiger*, *Romeo & Juliet*, and *The Odyssey*. Various projects related to units studied will also be assigned.

Subject: Honors English I

Year Offered: 9
Prerequisite: None
Length of Course: 1 year
Credit: 1 credit

Course Description: This course includes the study of world literature, traditional grammar, composition, and vocabulary. Additional reading is encouraged, with an emphasis on the in-depth study of *Romeo & Juliet*, *The Odyssey*, *To Kill a Mockingbird*, and *The Absolutely True Diary of a Part-Time Indian*. Writing is stressed and assigned in the form of journals, essays, a narrative, and a short expository research paper. Various projects related to units studied will also be assigned. Students will be expected to identify literary terms and grammatical elements introduced during the freshman year in their subsequent advanced English classes.

PHYSICAL HEALTH ED

Subject: Sports Education

Year Offered: 9, 10, 11, 12
Prerequisite: None
Length of Course: 1 semester
Credit: .5 credit

Course Description: Each physical education semester will consist of four units with each unit lasting approximately four weeks. Units will consist of skills presentation, skills practice, rules and strategy discussions, game and tournament play, a skills test and a written test. Typical units that will be covered in physical education are flag football, soccer, volleyball, pickle ball, basketball, team handball, badminton, softball, and fitness.

Subject: Lifetime Fitness

Year Offered: 9, 10, 11, 12
Prerequisite: None
Length of Course: 1 semester
Credit: .5 credit

Course Description: This course is offered first semester and second semester and is designed to promote fitness in activities that participants may experience after they have graduated high school. This course focuses on knowledge and understanding of total wellness with an emphasis on physical, social, and emotional health. Activities include team building, orienteering, tennis, broomball, tschokball, volleyball, nitroball, pickleball, badminton, and leisure games. All components of fitness will be assessed to promote the ability of the students to develop and implement fitness and health goals throughout adulthood.

Subject: Driver Education

Year Offered: 9, 10, 11
Prerequisite: State Requirements
Length of Course: 9 weeks
Credit: Included in P.E. credit

Course Description: Herscher High School offers both classroom and behind-the-wheel coursed in driver education. The classroom segment of the course consists of nine weeks of instruction on driving techniques, rules, state regulations, and proper attitude. The behind-the-wheel portion of the class includes 6 hours of actual driving time divided into 12-14 sessions. The course strictly follows state guidelines for driver's education.

A \$20 fee is collected and turned over to the Secretary of State for the students' instruction permit and their first drivers' license. A \$150 fee is collected at the time of Freshman registration for the students' Behind-the-Wheel instruction.

Subject: Health Education

Year Offered: 9
Length of Course: 1 Semester
Credit: .5 credit

Course Description: Health is a comprehensive physical education class that combines aspects of physical activity and classroom. Areas covered in the classroom aspect will include: personal hygiene, positive mental health, comprehensive human sexuality, drug education and CPR training. This class will incorporate physical activity, physical fitness, and nutrition on a weekly basis. The goal of this course is to inform students in order for them to make the best choices they can to maintain a high quality of life, both

in school and out.

MATHEMATICS

Subject: Algebra 1A

Year Offered: 9, 10, 11

Prerequisite: Junior High Teacher Recommendation

Length of Course: 1 year

Credit: 1 credit

Course Description: To help prepare the students in high school we establish a strong foundation in number sense. Building on this foundation the students master solving all types of linear equations and inequalities across the real number system. The student then are introduced to linear functions with the basic properties and begin solving systems of linear equations. The year culminates showing students how the math studied is used in real world situations.

Course sequence following Algebra 1A:

Algebra 1B, Geometry, Algebra 2

Subject: Algebra 1B

Year Offered: 9, 10, 11, 12

Prerequisite: Algebra 1A or Junior High Teacher Recommendation

Length of Course: 1 year

Credit: 1 credit

Course Description: Following completion of Algebra 1A (see above) the students will study the properties and characteristics of functions in Algebra 1B. During the first semester they will focus on linear functions to model real life situations by writing, solving, graphing, and interpreting. In the second semester the study of functions will extend to exponential and quadratic functions by justifying the appropriateness of a given function, solving, graphing, and interpreting. By the end of the year all students should be able to identify key features of functions and be able to identify key features of functions and be masters of linear, quadratic, and exponential functions.

Course sequence following Algebra 1B:

Track 1: Geometry, Algebra 2, Finite Math

Track 2: Honors Geometry, Honors Algebra 2, Pre-Calculus or Finite Math

Subject: Algebra 1B-Double Block

Year Offered: 9, 10, 11, 12

Prerequisite: Algebra 1A or Junior High Teacher Recommendation.

Length of Course: 1 year

Credit: 2 credits (1 in Math & 1 Elective Credit)

Course Description: Students who have completed Algebra 1A (see above) who still require additional support to fully master the topics are recommended for this double block course so they may receive additional support as they study the properties and characteristics of functions. During the first semester they will focus on linear functions to model real life situations by writing, solving, graphing, and interpreting. In the second semester the study of functions will extend to exponential and quadratic functions by justifying the appropriateness of a given function, solving, graphing, and interpreting. By the end of the year all students should be able to identify key features of functions and be masters of linear, quadratic, and exponential functions.

During the Double Block time period students will receive additional time for the lesson to be presented, time for one-on-one support when struggling, additional opportunities for practicing skills, and time for homework.

Course sequence following Algebra 1B Double Block:

Track 1: Geometry, Algebra 2, Finite Math

Track 2: Honors Geometry, Honors Algebra 2, Pre-Calculus or Finite Math

Subject: Honors Geometry

Year Offered: 9, 10, 11, 12

Prerequisite: Algebra 1B or Junior High Teacher Recommendation

Length of Course: 1 year

Credit: 1 credit

Course Description: Relying upon a strong algebra skill-set, students in Honors Geometry will dive deeper into geometric proofs and properties. During the year students develop thinking patterns by examining mathematical relationships involving lines, angles, surfaces, solids, triangles, quadrilaterals, and circles. As the first course in the Pre-Calculus sequence, students will be mastering basic trigonometry concepts and proving additional theorems.

Course sequence following Honors Geometry:

Honors Algebra 2, Pre-Calculus, AP Statistics, Calculus

Subject: Honors Algebra II

Year Offered: 9, 10, 11, 12

Prerequisite: Honors Geometry (for freshman by Junior High Teacher Recommendation **ONLY**)

Length of Course: 1 year

Credit: 1 credit

Course Description: Continuing to build upon a strong Algebra skill set students in this course will continue working towards taking Pre-Calculus. Students in this course will study advanced techniques for solving functions, be able to identify and explain key characteristics of all parent functions and perform highly technical algebraic operations. First semester students will study piecewise functions, function composition, and be introduced to exponential and logarithmic functions. In second semester an in depth study of quadratics and all polynomials will occur with an emphasis on real world applications. Finally students will culminate the year in preparation for Pre-Calculus with the study of sequences, series, trigonometric functions, and graphs.

Note: Advanced students beginning this course as a freshman have the potential of taking Dual Credit Calculus 2 following successful completion of Calculus & Analytic Geometry 1

Course sequence following Honors Algebra 2:

Pre-Calculus, AP Statistics, Calculus & Analytic Geometry 1

SCIENCE

Subject: Biology

Year Offered: 9

Prerequisite: None

Length of Course: 1 year

Credit: 1 credit

Course Description: One-year life science course. Biology presents an integrated view of the essential units of life both structurally and functionally. Concepts will be applied through laboratory experiences. Units covered in Biology I are: The Nature of Life; Ecology; Cells; Genetics; Evolution; From Microorganisms to Plants; Animals; The Human Body; and The Diversity of Life

Subject: Honors Biology

Year Offered: 9

Prerequisite: This course requires prior life science knowledge and maturity and study skill levels beyond those of most freshmen. By Junior High Teacher Recommendation.

Technology Requirement: Access to a computer with Internet required for utilization of online collaboration tools, among other enrichment activities and assignments

Length of Course: 1 year

Credit: 1 credit

Course Description: One-year life science course. Biology presents an integrated view of the essential units of life both structurally and functionally. Concepts will be applied through laboratory experiences. The focus in this course will be on critical thinking, experimental design, laboratory procedures, reading and writing in science, and the use of technology while exploring scientific topics of student interest. Units covered in Biology I are: The Nature of Life; Ecology; Cells; Genetics; Evolution; From Microorganisms to Plants; Animals; The Human Body; and The Diversity of Life.

SOCIAL SCIENCE

Subject: **World History I**

Year Offered: 9, 10

Prerequisite: None

Length of Course: 1 semester

Credit: ½ credit

Course Description: Instruction will focus on covering units about the beginnings of civilization, new directions in government and society, the age of exchange and encounter, and connecting hemispheres. Areas of study will include early humans, Western River Valley civilizations (Mesopotamia, Sumeria, Egypt), Eastern River Valley civilizations (India, Harrapans, China), formation of religions (Judaism, Christianity, Islam), ancient Greek, Persian, and Roman empires, the Byzantine Empire, Middle Ages, Crusades, Medieval history, and Renaissance and Reformation.

Subject: **World History II**

Year Offered: 9, 10

Prerequisite: None

Length of Course: 1 semester

Credit: ½ credit

Course Description: In this course, students will be introduced to the roots of modern history, and how these roots developed, and shaped much of the “western” world today. Students will grapple with not only the historical circumstances that affected these events, but also the geopolitical, economic, and social landscapes that allowed them to play out. Most importantly, this course will attempt to illustrate how these events and eras of history have molded the contemporary society that we will in. The course will begin by examining the events and themes of the Enlightenment, and end with an in-depth analysis of the post-World War II era. Throughout this course, students will be using the historical content to hone their literacy, critical thinking, and research skills, all while attempting to better understand how the past has shaped the society that we live in today.

Subject: **World Geography**

Year Offered: 9, 10

Prerequisite: None

Length of Course: 1 semester

Credit: ½ credit

Course Description: World Geography is treated as a social as well as a physical science, and material is brought in from allied social sciences such as history, economics, and civics, so that the student learns how physical geography is related to man and society. A human orientation is one of the main features of World Geography. Regional units are taught with the study of earth as the home of man. Individual nations as well as the region as a whole are discussed. A discussion lecture method is used. Map work for each unit is required.

WORLD LANGUAGE

Subject: Spanish I

Year Offered: 9, 10, 11, 12

Recommended Prerequisite: At least a C average in English is highly recommended.

Length of Course: 1 year

Credit: 1 credit

Course Description: This course offers an introduction to listening, speaking, reading and writing in Spanish. Vocabulary acquisition is stressed as well as learning basic grammar concepts. Each lesson contains cultural information. A variety of activities are used to enhance learning.

VOCATIONAL/FAMILY & CONSUMER SCIENCE

Subject: Clothing I

Year Offered: 9, 10, 11, 12

Prerequisite: None

Length of Course: 1 semester

Credit: ½ credit

Course Description: This course is for the student with no sewing experience. Basic sewing techniques will be learned as well as quick, easy time-saving techniques. The majority of the class time will be spent on the construction of sewing projects. A class lab fee will cover the cost for the use of a basic sewing kit. Students will be responsible for providing all supplies. The average cost of this class is \$50+ that is spent over the semester.

Subject: Foods I

Year Offered: 9, 10, 11, 12

Prerequisite: None

Length of Course: 1 semester

Credit: ½ credit

Course Description: This course will emphasize basic food preparation skills and nutrition. Units of instruction will include: basic measuring techniques, equipment, recipe math, terminology, nutritive value of foods, making wise food choices and career exploration. Students will plan, prepare and serve a variety of food to supplement the class work.

Subject: Foods II

Year Offered: 9, 10, 11, 12

Prerequisite: Completion of Foods I with a C or better or consent of instructor.

Length of Course: 1 semester

Credit: ½ credit

Course Description: Students will continue the study of nutrition and more advanced food preparation skills. Menu-planning, food purchasing, and meal preparation will be included. Careers in the food industry will be explored. The Foods I textbook and workbook will be used in this class.

VOCATIONAL/TECH

Subject: Technology Education

Year Offered: 9, 10, 11

Prerequisite: None

Length of Course: 1 year

Credit: 1 credit

Course Description: Technology Education is an orientation level course that introduces students to a variety of skills and career fields. Students will learn the technical processes, learn to use the technical resources, and learn to weigh the technological impacts of technology through the following activities:

Transportation Alternative energy Computer Aided Drafting

Computer repair Electronics Manufacturing Products

Materials Processing Small Engines Welding

Engineering towers Construction Robotics

Computer graphics Computer Animation Plumbing

Electricity Wood working Home repair

CNC Manufacturing Energy, Power, & Mechanics

All areas will include individual hands on experience.

VOCATIONAL/AG

Subject: Introduction to the Agriculture Industry

Year Offered: 9, 10

Prerequisite: None

Length of Course: 1 year

Credit: 1 credit

Course Description: This orientation course provides an opportunity for students to learn how the agricultural industry is organized; its major components; the economic influence of agriculture at state, national and international levels; and the scope and types of job opportunities in the agricultural field, Basic concepts in animal science, plant science, soil science, horticulture, natural resources, agribusiness management, agricultural mechanics, biotechnology, food science technology, environmental science and aqua cultural science will be presented. The development of leadership, employability, and computer skills will also be taught. Because FFA and Supervised Agricultural Experience programs (SAEP's) are integral components of this course, the student is required to conduct a Supervised Agricultural Experience (SAE) at home and become a member of the FFA.