

A.D. Johnston  
7-12 Course Catalog



**Counseling Office: 906-667-0413**

## SCHEDULING PROCESS

As an important part of the scheduling process, students and parents are required to closely review and choose courses. Students need to be certain of their course selections. Alternate courses will only be scheduled if the first choices are not available. **Student will have the first “3” days of a semester to make schedule changes.**

The scheduling procedure is listed below. Specific dates and times for each step in the procedure will be announced through media, school announcements, and mailings.

## SCHEDULING PROCEDURE

1. Counselor will hold a class meeting to explain procedures.
2. Parents and students will make course decisions.
3. Students will meet with counselor to review transcript and select courses As needed or if needed.
4. Schedule will be available for students in their portal, and will be handed Out once complete.

**Dropped Classes - Classes dropped after ten (10) days into the semester will result in a failing grade for that course.**

**HIGH SCHOOL GRADUATION REQUIREMENTS AND BOARD OF EDUCATION**  
**GRADUATION POLICIES**

Bessemer Area Schools are dedicated to the student success in programming through the grades and gives special attention to the need for students to demonstrate competency in all required state testing.

Eligibility to receive a diploma from A.D. Johnston High School is dependent on the successful completion of these criteria:

English - 4 credits	<u>Credits:</u>
• English 9	1.0
• English 10	1.0
• English 11	1.0
• English 12	1.0
Math - 4 credits	
• Algebra I	1.0
• Algebra II	1.0
• Geometry	1.0
• 4th Year Math	1.0
Science - 3 credits	
• General Science	1.0
• Biology	1.0
• Chemistry	1.0
Social Studies - 3 credits	
• U.S. History	1.0
• World History	1.0
• Government	.5
• Economics	.5
Physical Education - 1 credit	
• PE 9	.5
• Health	.5

Visual, Performing  
And Applied Arts - 1 credit total

- Art 1.0
- Band 1.0

Foreign Language - 2 credit

- German I 1.0
- German II 1.0

Business Education - 1 credit

- Personal Finance 1.0

\*Can be used towards 4th year math requirement\*

Electives

- Varied 6.0

TOTAL - 24 CREDITS

# 2018 - 2019 Course Book

## A.D. Johnston 7-12 school

### Core Courses

Students will be placed in required courses based on the Michigan Merit Curriculum and school district requirements.

### English Language Arts

#### **English 9**

**Credits: 1**

**Grade: 9**

#### **REQUIRED**

Course Description: English 9 is a required, year-long course that integrates literature, composition, speech, and media literacy. Students will study language, writing, reading, and speaking skills. The first semester targets basic narrative writing and literary analysis of short-stories and novels. The second semester targets research and the in-depth study of dramas.

#### **English 10**

**Credits: 1**

**Grade: 10**

#### **REQUIRED**

Course Description: English 10 is a required, year-long course that integrates literature, composition, speech, and media literacy. The emphasis of English 10 is to analyze American literary works, essays, and both classic and contemporary literature. Students will continue to build on skills learned in English 9 through increasingly challenging reading, writing, speaking, and research activities that require synthesis and argumentative skills.

#### **English 11**

**Credits: 1**

**Grade: 11**

#### **REQUIRED**

Course Description: English 11 is a required, year-long course that integrates literature, composition, speech, and media literacy. The emphasis of this course is to analyze World literary works, essays, and both classic and contemporary literature. Students will continue to build on skills learned in English 10 through increasingly challenging reading, writing, speaking, and research activities that require synthesis and argumentative skills.

**English 12****Credits: 1****Grade: 12****REQUIRED**

Course Description: English 12 is a required, year-long course that integrates literature, composition, speech, and media literacy. In this course students will expand upon the technical writings completed in English 11, analyze, in-depth, a variety of American, World, and British literary works, and improve upon reading, writing, speaking, and listening skills.

**Good Books****Credits: .5****Grade: 9-12****Prerequisite:**

Course Description: Good Books is a course focused on reading and discussing contemporary novels. After taking this course, students should gain a greater appreciation for cultural diversity and the overall human experience. The texts used for this class are contemporary and the books are generally published in 1980 or later.

**Creative Writing****Credits: .5****Grade: 9-12****Prerequisite:**

Course Description: Creative Writing is a course in which students will study language and how authors use certain words to create sensory details for readers. The focus will be on diction, figurative language, and imagery as they create their own short story and poetry pieces.

**Technical Report Writing****Credits: .5****Grade: 11/12****Prerequisite: English 10**

Course Description: This course focuses on improving the communication skills necessary to have in the workplace. Students will learn how to write a proposal and informational reports, and will also write a resume and learn proper interview etiquette.

**Film Literature****Credits: .5****Grade: 9-12****Prerequisite:**

Course Description: Film Literacy is a course that focuses on the question: How do films tell stories? Cinematography, editing, and sound will be discussed in depth. Students will consider

how these aspects of film give the viewer information about plot structure, character, and narration.

## **Mathematics**

### **Algebra I - REQUIRED**

**Credit:** 1

**Grade:** 8-9

**Prerequisite:** Successful completion of Pre-Algebra or Math 7 (with instructor's referral) and the ability to perform basic math computations.

**Course Description:** Algebra I studies order of operations, simplifying expressions, solving equations, properties of real numbers, functions, linear functions, problem solving, factoring, exponents, inequalities, polynomials, radicals, probability and graphing. This course is a requirement for graduation.

### **Geometry - REQUIRED**

**Credit:** 1

**Grade:** 10 - 12

**Prerequisite:** Algebra I

**Course Description:** This is a one-year college preparatory geometry course studying geometric concepts from an algebraic perspective. Included in this course is a study of both two and three dimensional shapes, congruence, similarity, transformations and the relationships between geometric shapes. This course includes the study of coordinates, transformations, measurement formulas (area and volume) and three-dimensional figures. Students will also study congruent and similar polygons and right triangles with an introduction to trigonometry. A carefully sequenced development of logical reasoning will allow students to write proofs and other mathematical arguments effectively.

### **Algebra II - REQUIRED**

**Credit:** 1

**Grade:** 10-12

**Prerequisite:** Successful completion of Algebra I and the successful completion of Geometry

**Course Description:** This is a second year study of structured algebra. This class focuses on increasing student understanding of mathematical concepts. Topics covered include operations, graphing, inequalities, solving equations, systems of equations, linear equations, matrices, quadratic functions, factoring, polynomial functions, rational exponents, radical functions, exponential functions, logarithms, variations, rational expressions, probability, statistics, data analysis, sequences, series and trigonometric ratios.

### **Pre-Calculus**

**Credit: 1**

**Grade: 11-12**

**Prerequisite:** Successful completion of Algebra I, Geometry and a C or better in Algebra II

**Course Description:** This course reviews Geometry and the past two years of Algebra along with extensive coverage of trigonometry, analytical geometry and introductory calculus. College bound students are encouraged to take this course while students planning on pursuing careers in the fields of mathematics, science, engineering, medicine or other math related fields should take Pre-Calculus.

## **Science**

### **Science 9 - REQUIRED**

**Credit: 1**

**Grade: 9**

**Prerequisite: NONE**

**Course Description:** This is an introductory course to both chemistry and physics. It will cover key concepts and explain how/why things are happening around us. Topics discussed will be motion, energy changes, the relationship between energy/work as well as discussing the structure of atoms and the structure of matter.

### **Biology - REQUIRED**

**Credit: 1**

**Grade: 10**

**Prerequisite: N/A**

**Course Description:** Biology is the study of life. Students will study cellular function, mitosis, meiosis, DNA replication, genetics and applications through field experiences in which they will collect and interpret data.

### **Chemistry - REQUIRED**

**Credit: 1**

**Grade: 11**

**Prerequisite: Science 9 and Algebra**

**Course Description:** This course shows the relationship of chemical reactions that take place around us in everyday life. It focuses on the types of reactions and the quantities involved in these reactions



## **Anatomy & Physiology**

**Credit: 1**

**Grade: 11-12**

**Prerequisite: Biology**

**Course Description:** This course is the study of the structure and function of the human body. Students will study tissues, bones, muscles, the nervous system and the senses. Students will complete vertebrate dissection (fetal pig) and complete a unit on medical terminology. Students will discuss and learn about viruses through the reading of ***The Hot Zone*** and ***Demon in the Freezer***. Students will complete the course by studying digestion, circulation, the heart, respiration, the urinary system and the skin.

## **Astronomy**

**Credit: .5**

**Grade: 9 - 12**

**Prerequisite: NONE**

**Course Description:** This course studies astronomy and students will focus on the study of planets, the solar system, the sun, the universe, the moon, constellations and space exploration.

## **Geology**

**Credit: .5**

**Grade: 9 - 12**

**Prerequisite: None**

**Course Description:** This course studies geology with emphasis on mapping and map interpretation, rock/mineral identification, plate tectonics, volcanoes, earthquakes, weathering, erosion, glaciers and mining. Both iron and copper mining are points of emphasis, there are many lab experiences and computer simulations.

## **Oceanography**

**Credit: .5**

**Grade: 9 - 12**

**Prerequisite: NONE**

**Course Description:** This course focuses on oceanography. Students will study hurricanes, shoreline, ocean basin development, water movements, waves, tides and much more.

## **Meteorology**

**Credit: .5**

**Grade: 9 -12**

**Prerequisite: None**

**Course Description:** This course focuses on atmosphere and meteorology. Students will cover topics such as the atmosphere, cloud formation, thunderstorms, tornadoes, El Nino and La Nina and weather prediction with a special emphasis on the climate.

## **Social Studies**

### **United States History**

**Credit: 1**

**Grade: 9**

**REQUIRED**

**Course Description:** This course will focus on the rise of The United States as a global power and its evolving role in the 21st century. Starting with the Reconstruction Era after the Civil War, students will examine the cultural, economic, diplomatic and political events of American history, concluding with the Cold War. There will be an emphasis on reading skills, comprehension, and communication. Students will develop chronology, support positions, formulate judgments and reach conclusions about American values.

### **World History**

**Credit: 1**

**Grade: 10**

**REQUIRED**

**Course Description:** This course puts an emphasis on examining the cultural geography of Europe, Africa, Asia, North and South America. Students will study the fundamentals of geography, religion, history, and government in order to develop a better understanding of world cultures. Starting with the Fertile Crescent, students will examine the spread of ideas, religion, agriculture, technology, and warfare through the lens of human history.

### **Economics**

**Credit: .5**

**Grade: 11 - 12**

**REQUIRED**

**Course Description:** Economics is particularly well-matched theme for a senior year social studies class. Students are allowed to explore the complexity economics. As students become familiar with these concepts, they will better understand the laws governing each discipline, and explore this knowledge in business situations and more familiar personal transactions.

**Government****Credit: .5****Grade: 11 - 12****REQUIRED**

**Course Description:** Civics is the study of citizenship. The duties and rights of citizens to each other and as members of a political body and government. It includes the study of laws, economics, government, and its citizen's duties. Over the course of a year, students in Civics will study the role of government. Each student will trace the history of our government from its early beginnings to present day. Students will learn our core democratic values and study the constitution. Most of all students will learn the different levels of government (local, state, and national) and how it plays a role in their daily lives.

**Current Events****Credit: .5****Grade: 9-12**

**Course Description:** This course uses current events to focus on world and local issues that affect everyday lives. The disciplines of government, economics, and civic discourse will be touch on in a wide variety of topics and activities. This course will use newspapers, online media, cartoons, and newscasts to explore and discuss the topics affecting the world today. Additionally, students will work in group projects to better understand the world today.

**Cultural Geography (Eastern Hemisphere)****Credit: .5****Grade: 9-12**

**Prerequisite:** Successful completion of 9<sup>th</sup> grade.

**Course Description:** This course is designed to help students better understand a constantly changing and complex world through a study of geography. We will study geography from the physical, political, and cultural perspective through the five basic geographical themes of location, place, human-environment interaction, movement, and region and its relationship to developments of culture. In addition special emphasis will be placed on National Geographic Standards (development of geographic skills and literacy).

### **Modern American History**

**Credit:** .5

**Grade:** 9 -12

**Prerequisite:** Successful completion of 9<sup>th</sup> grade.

**Course Description:** This course addresses the social, economic, political, and military aspects of the United States from the end of the World War II to the present. It will also help gain a better understanding of the U.S. in a global context. The course will emphasize the important people, issues, and events of the later half of the 20<sup>th</sup> century through our present day.

### **Michigan History**

**Credit:** .5

**Grade:** 9-12

**Prerequisite:** Successful completion of 9<sup>th</sup> grade.

**Course Description:** This course will present the history of Michigan as the heart of the Great Lakes region. During the class, students will discuss and explore the settlement of this area, its cultural history, the establishment of modern state structures and basic economic structure. The course seeks to make students aware Michigan's past and to appreciate local, state and national Michigan History.

## **Physical Education**

### **High School P.E.**

**Credit:** .5

**Grade:** 9-12

#### **REQUIRED**

**Course Description:** The intent of the course is for students to improve their physical fitness and motor skills development levels, as well as their social development and teamwork through participation in their activities based off of their previous knowledge from Exploratory P.E. The units will include soccer, volleyball, fitness circuit, badminton, pickleball, table tennis, snowshoeing, football, handball, lacrosse, hockey, basketball, weight training, softball, track & field, golf, ultimate Frisbee, speed/acceleration training, recreational activities, and fitness goal setting. The students will continue to work on their cognitive developments through knowledge of the rules of the game, and to develop an intermediate/advanced understanding of these activities. The concept that physical education is beneficial for everyone will be stressed in the hope that students will value their health and continue to live a lifetime of fitness.

### **High School Health 9**

**Credit:** .5

**Grade:** 9

#### **REQUIRED**

**Course Description:** The intent of the course is from students to improve their health and wellness competencies. Health education provides a means to develop and maintain a healthy

lifestyle and good decision making. The goals of this course are to introduce and explain the concept of wellness; provide current information on health issues; assist the students in developing a balanced lifestyle through understanding of the interrelatedness of the physical, mental, and emotional dimensions in making a healthy person; provide an opportunity for students to examine and evaluate their personal relationships; and provide opportunities for the development of decision-making and critical-thinking skills. The content will include; Strong Foundation Skills, Social and Emotional Health, Nutrition & Physical Activity, Safety, Substance Abuse (alcohol, tobacco, and other drugs), and HIV/AIDS & Other STIs.

**Adv. P.E.**

**Credit:** .5

**Grade:** 10 -12

**Prerequisite:** High School P.E. 9

**Course Description:** The intent of this course will be to provide learning opportunities for students to further develop skills and knowledge related to fitness, physical competence, cognitive understanding and positive attitudes about physical activity that promote a healthy and physically active lifestyle..

**Lifetime Fitness**

**Credit:** .5

**Grade:** 10-12

**Prerequisite:** High School P.E. 9

**Course Description:**Students will acquire knowledge and skills in recreational, athletic, and lifetime activities. The emphasis is on **active participation**, sportsmanship, teamwork, and developing organization skills. For skills taught in previous P.E. courses, advanced skills will be assessed; some units will be similar, however advanced skills/strategy will be introduced. Students will create their own fitness plan and goals that will then be implemented individually during weight, speed/acceleration, circuit, and skills training.

**Exploratory Weight Training 1 & 2**

**Credit:** .5

**Grade:** 9 -12

**Prerequisite:** None (cannot replace PE 9)

**Course Description:** This course is designed to give students the opportunity to learn weight training concepts and techniques used for obtaining optimal physical fitness. Students will benefit from comprehensive weight training and cardiorespiratory endurance activities. Students will learn the basic fundamentals of weight training, strength training, aerobic training, and overall fitness training and conditioning. Students will be empowered to make wise choices, set goals, meet challenges, and develop positive behaviors in fitness, wellness, and movement activity for a lifetime. **(Limit 20 students per section)**

## **ART**

### **High School Art I**

**Grade: 9-12**

**Credit: 1**

**Course Description:** Art I is a comprehensive foundation course in art. Students are engaged in a wide variety of two and three-dimensional experiences in drawing, painting, sculpture, and printmaking. The Elements of Art as well as several artists are learned and applied as well. This course meets the one credit of Fine Arts needed for graduation. Students are given a basic supply list for this course.

### **Advanced Art**

**Grade: 10-12**

**Credit: 1**

**PreRequisite.:** Art I

**Course Description:** Advanced Art is a continuation of Art I, which is used as the starter building block for more comprehensive art ideas and projects. Painting, drawing, printmaking, design, and art history are all included in this one year class.

## **Peer To Peer**

### **High School**

**Credit: 1.0**

**Grade: 10 - 12**

**Prerequisite: None**

**Course Description:** Peer/Peer program is designed incorporate 21st Century learning skills and provide supports for both students with ASD/Links and helping Peer I and Peer II students meet the needs of student groups through academics and social involvement.

## Music

### **High School Band**

**Credit: 1.0**

**Grade: 9-12**

**Prerequisite:** Participation in middle school band or permission of the instructor.

**Course Description:** This course provides an academic opportunity to participate in instrumental education and performance. Students study and practice to gain an appreciation of a wide variety of music repertoire representing different styles and periods of music. The Bessemer Band performs a number of concerts during the year including various festivals, parades, pep bands, halftime shows and other community functions. Performance attendance and practice are required.

## Business Education

### **Personal Finance**

**Credit: 1**

**Grades: 12**

**REQUIRED**

**Course Description:** Personal Finance is a course designed to help students understand the impact of individual choices on occupational goals and future earnings potential. Topics covered will include income, money management, spending and credit, as well as saving and investing. Students will demonstrate knowledge of finance, debt, and credit management, and evaluate and understand insurance and taxes. This course will provide a foundational understanding for making informed personal financial decisions.

## Foreign Language

### **German I**

**Credit: 1**

**Grade:9-12**

**Prerequisite:** Knowledge of basic English grammar

**Course Description:** German I studies the vocabulary and sentence structure of the modern German language. Through lectures and reading, the student also will learn about the history and culture of Germany, Austria and Switzerland, the three main German speaking countries. By the end of the course, the students will have the skill necessary to discuss in the German language topics such as school, family, sports, friends, furniture, food and drink, shopping, clothing and chores. German I is recommended for those students interested in pursuing a career in business, history and medicine.

**German II****Credit:** 1**Grade:**10-12**Prerequisite:** Successful completion of German I

**Course Description:** German II expands upon the grammar and vocabulary learned in German I. In addition to new vocabulary, this class will emphasize present, past and future tenses, reading comprehension, and creating original dialogues in the German language. This course will continue to examine the culture and history of the German speaking countries. This course is recommended for the college bound student since many universities require two years of the same foreign language for admittance.

## Online Courses

**Odysseyware****Grade Level:** 9-12**Credits:** .5 - 1

**Course Description:** Online courses available to students for elective or credit recovery purposes. Online core courses will not replace teacher led courses, this will only happen if there is a scheduling conflict or for credit recovery purposes. Elective courses will be available to all students as part of their regular daily coursework.

**CORE****English Language Arts**

English I

English II

English III

English IV

**History & Social Sciences**

Economics

Government

World Geography

U.S. History

World History

**Math**

Algebra I

Algebra II

Geometry

Consumer Math



## Science

Integrated Physics and Chemistry

Physics

Chemistry

Biology

## Online Elective Offerings

### **Introduction to Ag, Food, and Natural Resources**

**Credit: .5**

**Grade: 9-12**

**Course Description:** This semester-length high school elective introduces students to the basic scientific principles of Agriculture and Natural Resources. Students will be recognizing and researching plant systems, animal systems, government policy, "green" technologies, agribusiness principles, and sustainability systems.

### **A/V Technology and Film Careers**

**Credit: .5**

**Grade: 9-12**

**Course Description:** This course discusses careers in audio/visual (AV) technology and film, and provides students with background about the required skills, education, equipment, and technology in this industry. Students will understand the collaborative team effort of many different professionals who make films, videos, audio, and TV programming. The course begins with an introduction to the history and development of AV technology and film, with subsequent units focusing on specific sectors of the industry and the stages for producing film and media. The concluding unit focuses on the finishing stages for exhibition, distribution, and reaching a market. In addition, the course will provide information about many different careers that are available to students who are interested in AV technology and film.

### **Career Management**

**Credit: .5**

**Grade: 9-12**

**Course Description:** Career management is a semester-length high school elective course that assists students in their preparation for career selection. The course is designed to improve workforce skills needed in all careers including: Communication, Leadership, Teamwork, decision making, problem solving, goal setting, time management. Students will complete activities that help identify personal interests, aptitudes, and learning styles. Students will use results of self-assessments to determining careers that may prove personally satisfying.

**Business Law****Credit: .5****Grade: 9-12**

**Course Description:** This course is designed to provide students with the knowledge of some of the vital legal concepts that affect commerce and trade, after first gaining some familiarity with how laws are created and interpreted.

**Forensics: Using Science to solve a mystery****Credit: .5****Grade: 9-12**

**Course Description:** This course is the overview of modern-day forensic science careers at work using science concepts to collect and analyze evidence and link evidence to the crime and suspects in order to present admissible evidence in courts of law.

Modern-day forensic science practices have come into being thanks to the contribution of science and legal professions seeking ways to study crime scenes and criminal activities in an effort to stop crime. Of particular interest in this course are the various applications of medicine in the field of forensic science. Successful completion of biology and physical science.

**Marketing and Sales for Tourism and Hospitality****Credit: .5****Grade: 9-12**

**Course Description:** This course is designed as an introduction to the study of tourism and hospitality marketing and sales. Students will be introduced to marketing theory and application of the basic principles of marketing as applied in hospitality and tourism. The relationship between marketing and other functions such as advertising, sales techniques, and public relations in order to maximize profits in a hospitality organization is addressed. Students will have an opportunity to explore this multifaceted world, identifying multiple career paths and opportunities.

**Lodging Operations Management****Credit: .5****Grade: 9-12**

**Course Description:** This course introduces students to hotel management. Students taking this course briefly review the history of the lodging industry, and place contemporary hotels in a larger context of the hospitality industry. They then study hotels from several different angles: vision and mission, organizational structures, and the structure and functions of different divisions within the hotel.

**Network System Design****Credit: .5****Grade: 9-12**

**Course Description:** The Network System Design course will provide students with an understanding of computer networks and how they operate, as well as a basic understanding of how to manage and maintain computer networks. These skills will provide students with the ability to design, configure, and troubleshoot networks of all sizes.

**Fundamentals of computer Systems****Credit: .5****Grade: 9-12**

**Course Description:** The Computer Fundamentals course will provide students with an understanding of computers and how they operate as well as a basic understanding of how to manage and maintain computers and computer systems. These skills will provide students with the ability to configure computers and solve computer problems.

**Introduction to Law, Public Safety, Corrections, and Security****Credit: .5****Grade: 9-12**

**Course Description:** Law enforcement, public safety, corrections and safety professionals work daily to keep our cities and communities safe. There are few careers paths in the United States that can be as rewarding, challenging and important as a career in legal, public safety, corrections or security fields. The sacrifices and challenges faced by these selfless individuals is virtually unparalleled by any other profession outside of the armed forces. Whether it be keeping innocent people from harm, bringing justice to victims, fighting fires, saving people from danger or ensuring evil-doers are locked away. These career fields offer great opportunities to those who choose to work in them.

### **Engineering and Design**

**Credit: .5**

**Grade: 9-12**

**Course Description:** Engineering and Design is part of the STEM (Science, Technology, Engineering, and Mathematics) education and career path. By building real-world problem-solving and critical thinking skills, students learn how to innovate and design new products and improve existing products. Students are introduced to the engineering design process to build new products and to the reverse engineering process, which enables engineers to adjust any existing product.

### **Engineering and Product Development**

**Credit: .5**

**Grade: 9-12**

**Course Description:** The purpose of this course is to provide an overview of the concepts of product engineering and development. Students will analyze the life cycle of a product to prepare a product for distribution and for target markets. The course begins with building an understanding of the product life cycle, from the initial idea to drafting requirements to using 3-D modeling tools and other design tools. The final unit focuses on assembling the pieces for a project plan for a product and evaluating the plans for a successful product launch. In addition, the course will provide information about the different careers available to students interested in engineering, product development, and project management.

## **7th and 8th Grade COURSES**

### **Core Courses**

#### **7th Grade English**

**Credit: 1.0**

**Grade: 7**

**Course Description:** 7th grade English continues to build on the sequential review and development of grammar and communication skills in writing. An evaluation of literature develops analytical skills using examples of short stories, a novel, poetry, and drama selected from a variety of periods and authors. A comparison contrast paper using appropriate style, format, and research methods will be written, using 21st century tools.

## **8th Grade English**

**Credit: 1.0**

**Grade: 8**

**Course Description:** 8th grade English continues to build on the sequential review and development of grammar and communication skills in writing. An evaluation of literature develops analytical skills using examples of short stories, a novel, poetry, and drama selected from a variety of periods and authors. An argument paper using appropriate style, format, and research methods will be written, using 21st century tools.

## **Science 7**

**Credit: 1**

**Grade: 7**

**Course Description:** This is a year long science course that uses scientific inquiry and the relationships between science-technology-society to understand cycles of matter and energy within and among organisms and their environments, structure and function in organisms and the degree of relatedness between selected organisms, diversity, genetics, and evolution.

## **Science 8**

**Credit: 1**

**Grade: 8**

**Course Description:** This is a year long science course that uses scientific inquiry and the relationships between science-technology-society to understand cycles of matter and energy within and among organisms and their environments, structure and function in organisms and the degree of relatedness between selected organisms, diversity, genetics, and evolution. Further, studies will include a review of the solar system, properties of matter, and sound and light waves.

## **Math 7**

**Credit: 1**

**Grade: 7**

**Course Description:** In this course, the student will use the four operations with decimals, fractions, and integers to solve equations and inequalities. The student will simplify expressions with exponents and rational numbers. The student will apply ratios, rates, proportions, and scale drawings to solve various problems and then solve percent problems, including percent of change and commission. The student will explore concepts in geometry including identifying and describing the properties of geometric figures, as well as the relationships that exist between them. The student will find perimeter, area, and volume of two-dimensional figures and extend measurement skills to determine surface area and volume of three-dimensional figures. If time

exists, the student will use tables, graphs, formulas, and functions to identify and extend number patterns.

### **Math 8 (Pre-Algebra)**

**Credit: 1**

**Grade: 8**

**Course Description:** The first semester of this course is a review/reinforcement of basic math concepts learned in 7<sup>th</sup> grade. These concepts include but are not limited to: comparing fractions, decimals, and percents; evaluating expressions; writing equations/inequalities; and performing basic operations involving integers. The second semester of this course introduces topics that will be reinforced in Algebra I during their freshman year of High School. These include: solving two-step and multi-step equations, plotting points in a coordinate plane, graphing linear equations, determining the slope of a line, and writing equations in slope-intercept form.

### **Geography/Eastern Hemisphere**

**Credit: 1**

**Grade: 7**

**Course Description:** Seventh grade social studies is comprised by Geography and the Study of the Eastern Hemisphere. The Geography portion of the class will be taught extensively in the 1<sup>st</sup> quarter of the school year. The 1<sup>st</sup> unit will be based on four chapters of Geography. In these chapters the students will study physical, political, world, local, environmental, and cultural geography. This unit will take most of the 1<sup>st</sup> quarter. The rest of the first semester will be spent studying Physical and Cultural Geography of the Middle East and Central Asia.

In the second semester students will study Physical and Cultural Geography Africa, Indian Sub-Continent, China, Korea, Japan, Siam Peninsula, and Pacific Island. This course will emphasize Physical and Human Geography, Economics, Government, and other aspects of Social Studies.

### **American History: Beginnings to 1914**

**Credit: 1**

**Grade: 8**

**Prerequisite:** Advancement to 8<sup>th</sup> Grade

**Course Description:** Eighth grade social studies is the integrated study of the social sciences to prepare young people to become responsible citizens. Eighth grade American History will bring the students on a journey starting with the meeting of three worlds in 1500. These three worlds North America, Europe, and Africa all played key roles in the development and major events of the United State. This Era of American History will take the student through colonization, Nation Building, Division (Civil War), and America's rise as a modern nation and world power. Students will spend time learning perspectives in the disciplines of Geography, Economics, Civics, Public Discourse/Decision Making/Citizen Involvement, and History. All these perspectives will be involved in exploring the major events of this era (1500-1900). Students will start their journey during colonial times and move through major conflicts (Revolutionary War/Civil War). Finally, students will study the modernization of the United States as it became a world power.

## **7th and 8th Grade Encore**

### **Junior High Art**

**Credit:** .5

**Grade** 7-8

**Course Description:** This course was designed to expand on the elementary foundation of art. Students are introduced to art production, art history, and art careers. Major areas to be studied include painting, drawing, printmaking and design. Students are exposed to the basic principles of design and color theory. Students are taught to draw realistically by developing their perception skills. Students create and discuss their own art projects. They are also introduced to the master works of famous artists.

### **Exploratory P.E. 7 & 8**

**Credit:** .5

**Grade:** 7 – 8

**Prerequisite:** n/a

**Course Description:** The intent of the course is for students to improve their physical fitness and motor skills development levels, as well as their social development and teamwork through participation in their activities.

### **Middle School Band**

**Credit:** 1.0

**Grade:** 7-8

**Prerequisite:** Participation in 6<sup>th</sup> grade band or permission of the instructor.

**Course Description:** This course provides an academic opportunity to participate in instrumental education and performance. Students will learn and review major scales/arpeggios/rudiments along with basic rhythmic skills, tone quality, music terminology and history as it relates to their instrument and the music being performed.

### **Conversational Spanish**

**Grade Level:** 7th

**Credits:** .5

**Course Description:** An introductory course with emphasis on conversation, reading, writing, and oral comprehension along with related grammatical skills and basic sentence patterns. Culture of the various Spanish-speaking countries is taught alongside language instruction in order to promote a better understanding of Spanish-speaking people and tolerance of different world views. This course will be a semester in 7th grade and a semester in 8th grade totaling 1 year of a foreign language credit.

## **Geography of the Western Hemisphere**

**Grade Level: 8th Grade**

**Credit: .5 credit**

**Prerequisite: 7th Grade**

This course puts an emphasis on examining the cultural geography of countries in North America, Central America, and South America. Students will study the fundamentals of geography, history, government, religions, economics, and current issues in order to develop a better understanding of the cultures in these countries.

## **Odysseyware Keyboarding and applications (only available to those not taking band)**

**Credit: .5**

**Grade: 7/8**

**Course Description:** Keyboarding and Applications is a semester-long elective that teaches students keyboarding skills, technical skills, effective communication skills, and productive work habits. In this course, students will learn about proper keyboarding technique. Once students have been introduced to keyboarding skill, lessons will include daily practice of those skills. Students will gain an understanding of computer hardware, operating systems, file management, and the Internet. In addition, they will apply their keyboarding skills and create a variety of business documents, including word processing documents and electronic presentations.

## **Odysseyware Principles of Coding (only available to those not taking band)**

**Credit: .5**

**Grade: 7/8**

**Course Description:** Principles of Coding is designed to introduce middle school students to the power of coding. Computer literacy has become just as important as reading and math literacy in the 21st Century. No matter what career students select, learning even the basics of coding and computers will benefit them. Additionally, every year there is a standing demand for 120,000 people who are trained in computer science. Jobs in this industry are growing at more than two times the national average of any other field i.



