

# **Elsberry High School**

## **Course Catalog**

**2016-2017**





# Graduation Requirements for Elsberry High School

English	4 credits
Math	3 credits
Science	3 credits
Social Studies	3 credits
Fine Art	1 credit
Practical Art	1 credit
Physical Education	1 credit
Health	.5 credit
Personal Finance	.5 credit
Electives	7 credits
<b>Total</b>	<b>24 credits</b>

## Explanation of Grade Scale for Elsberry High School

Letter Grade	Full Description	Grade Points
A	Superior	4.000
A-		3.667
B+		3.333
B	Above Average	3.000
B-		2.667
C+		2.333
C	Average	2.000
C-		1.667
D+		1.333
D	Below Average	1.000
D-		0.667
F	No Credit	0
P	Pass	0
I	Incomplete/No Credit	0

\*\*Advanced and Honors classes are weighted courses. Students receive an additional grade point of .25.

## English

**English I** - This course introduces the student to a variety of genres, including a Shakespeare play, novels, short stories, and poetry. Composition and research are integrated throughout this course. The student continues to develop sentences and grammar skills and improve spelling.

Required

Prerequisite-none

**English 2-** A course concentrating on the development/improving of writing skills associated with the various modes of composition. Instruction includes review of sentences mechanics and punctuation, paragraph structure, selecting/limiting of topics, development ideas and sequencing, the various modes of writing and their subsidiary forms, logical development of theses research skills, source citation (MLA), and etc. Too, English II, as part of its literature component will read and analyze poetry, essays, short stories, novels, and plays. As well as learning the technique and terminology associated with these forms, students will learn about the men and women who authored the targeted works and the significance of their contribution.

Required

Prerequisite- English I

**English 3** - This course will prepare the student for the workplace as well as composition class. Students will simulate work groups, solve problems, write formal letters, memos, and do case studies. They will become proficient with resumes, applications, and thinking skills. Listening ability will increase. Reading various forms of literature is also a valuable part of this class.

Prerequisite – English I and English 2

**English 3 Honors (Composition)-** This course is geared for students who are college-bound. Students will read primarily nonfiction texts, ranging from current issues to early historical documents. All reading will be read analytically, discussed in-depth, and written about in a formal, formatted style. Students will be responsible for attaining a command of rhetorical terms and applications. Students will participate in student-lead small and large-group discussion. Writing in this course focuses on argumentative writing and informational writing (including extensive research). We will also cover, but not focus on speaking and listening. Students will also be responsible for constructing and giving one presentation per semester. Success in this class depends upon active reading, class participation and revising formal writing assignments.

Prerequisite- English I and English 2

Weighted Course

Students may choose to take AP Language and Composition exam

**English 4** - Students will read nonfiction and fiction novels, dramas, essays, short stories and poems from classic British and American authors. Reading will be analyzed, discussed and written about formally and informally. Students will participate in small and large group discussion. Writing assignments include literary analysis, argumentative writing, informative writing, and narrative writing. Students will construct and give one group presentation and one individual presentation. Students will also write a scholarship essay and a commencement address.

Prerequisite- English 3

**English 4 Honors (Literary Analysis)** - This course is geared for students who are college-bound. Students will read nonfiction and fiction novels, dramas, essays, short stories and poems from classic British and American authors. All reading will be read analytically, discussed in-depth, and written about in a formal, formatted style. Students will be responsible for further developing a command of college level literary terms and their applications. Students will participate in student-lead small and large-group discussion. Writing in this course focuses on extensive literary analysis, argumentative writing (including an in-depth study of rhetorical strategy and logical fallacy), and informational writing (including extensive research). We will also cover, but not focus on narrative writing. Students will be responsible for constructing and giving one presentation per semester. Success in this class depends upon active reading, class participation and revising formal writing assignments. This class is designed to prepare students for the AP Literature and Composition Exam.

Prerequisite – English 3 (a B average recommended)

Weighted Course

Students may choose to take AP exam

**Speech** - Speech is an intensive course for improving public-speaking skills. Students will do informative, persuasive, and “how-to” speeches. Students will also work with impromptu and extemporaneous speaking. Speaking in front of classmates, working with others, and memorization is a major requirement of this class.

Elective

One semester

**Drama** - This is a semester course that will deal with oral presentations and performances. Students will learn about the fundamentals of theater and acting. Students will perform storytelling, dramatic monologues, comedy, duet acting, and duet improvisation. Students will participate in a theatrical song and dance unit. Students will also learn about dramatic composition and critique. Students will present a mock trial for the elementary students. This class is geared for students who enjoy memorizing material and doing performances often.

Elective

One Semester

**Creative and Technical Writing** - This class is open to juniors and seniors who have successfully completed English 1 and 2. The class requires students to write daily. Students receive in-depth instruction and practice of writing and revising strategies. First semester, students will write and revise scenes, short stories, poems, memoir, drama, and other creative assignments and exercises. Second semester, students will write and revise a resume and cover letter, a process and description essay, a policy memo, a proposal, an editorial, an advertisement, and various other practical writing assignments. A daily journal will be kept throughout the year as well. Students are graded on participation, effort, and improvement throughout the year.

Elective

Prerequisites-English 1 & 2

**Popular Fiction-** This class will cover approximately 7 novels over the course of the year. The class will have an emphasis on popular fiction novels that have been made into movies. We will focus on the uniqueness of books and movies, but also their relationship with one another, what they have in common to appeal to the reader and viewer alike, but also how the story differs from one form to another.

Elective

## **Social Studies**

**American History** - This course traces U.S. History from the Industrial Revolution to the 1980's and the end of the Cold War. Using both a topical and chronological approach, it describes the evolution of the U.S. from an isolated agricultural nation to a military and industrial super power.

Required

Prerequisite-none

**American Government** - The course is designed to help the student to learn of the dynamics of our national government. The focus will be on the three branches of government. For each area (branch), the complexities and processes will be examined. Students will begin with studies of both the United States and Missouri Constitution. Later in the course students will explore the principles of our political system and political process, the political parties, development of public opinion, ETC. An exam on each constitution is required by state statute, per previous citation, and given during this course.

A variety of resources are used, including but not limited to, textbooks, documents, various media, etc. Students will be challenged to discuss issues, take and justify positions and opinions that they have developed.

Required

Prerequisite- U.S. History

**World History**- This course studies ancient Greece and Rome, and then focuses on ancient civilizations and medieval cultures. Concentration begins with Renaissance Europe and the Age of Discovery. The rise of modern nations, the Enlightenment, the Industrial Revolution, the American and French Revolutions and world wars are significant topics. Asian and African histories are studied as they interface with Western culture but also as discrete topics. Using a topical and chronological approach, it focuses on the exploration of change in technologies, institutions, ideas, and lifestyles as well as major events, people and issues from the beginning of civilization to the present.

Elective

**Advanced American History** - This is an introductory survey course in American history that will cover the economic, social and political history of the United States from Reconstruction to the present. Survey courses are not designed to exhaustively cover everything one would need to know in order to succeed on Jeopardy. Instead, this course is designed to help students critically think about the core issues and themes from our past. When possible, we will use Lincoln and Pike County histories to help analyze the impact of national events and trends on local residents. Regardless of whether you take the course as a dual credit or not, the expectations will be the same.

Elective

Prerequisite – Juniors and Seniors only

GPA of 3.0 required (or instructor approval)

Weighted Course

Dual credit available

Semester Course

**Advanced Government** - This is an introductory survey course in American history that will cover the economic, social and political history of the United States from Reconstruction to the present. Survey courses are not designed to exhaustively cover everything one would need to know in order to succeed on Jeopardy. Instead, this course is designed to help students critically think about the core issues and themes from our past. When possible, we will use Lincoln and Pike County histories to help analyze the impact of national events and trends on local residents. Regardless of whether you take the course as a dual credit or not, the expectations will be the same.

Elective

Prerequisite – Juniors and Seniors only

GPA of 3.0 required (or instructor approval)

Weighted Course

Dual credit available

Semester Course

**Missouri History-** This class studies prehistoric Missouri, migration and settlement of the various Indians of Missouri, exploration by the Spanish and French fur traders, early settlement, statehood, elections significant to Missouri, the Mormons, politics, slavery, and the Civil War, the development of Missouri's educational system and local history. There is a significant emphasis on local history and students are required to do a local history research project.

Elective

Semester Course

**American Civil War-** examines the causes, major events, and short/long term economic, social, and political consequences of the War Between the States. The views of numerous historians since 1865 will be consulted to assist students in developing a better perspective with regards to the lasting cultural impact these crucial years have had on the United States.

Elective

Semester Course

**Recent U.S. History (1st Semester)-**Each Year, history courses have more material to cover, which means that relatively recent events do not get the coverage they deserve. This course will focus on post-WWII history to the present.

Elective

Semester Course

**Applied History (2nd Semester)-** In this course, the student will become a budding historian. In the past, we have used our history research skills to research local, abandoned cemeteries. By doing so, we are able to apply the larger themes of history to a study of local people, places, and events.

Elective

Semester Course

## **MATH**

**Algebra I** - This course is designed to provide students with essential algebraic skills and concepts necessary to progress through upper level mathematics courses. These skills and concepts will include but not be limited to solving linear equations, inequalities, factoring, systems of equations, and inequalities using a wide scope of methodology when looking for a solution. Eighth grade students may take this course and this does count as a high school mathematics credit however, 8<sup>th</sup> grade students must take 3 additional math courses in High School.

Required

\*\*Prerequisites - Determination of an eighth grade student being allowed to take Algebra I will be decided by: Seventh grade Math teachers recommendation, Assessment Test Evaluation, and seventh grade Math MAP scores

**Geometry** - Geometry is designed to acquaint the student with inductive and deductive reasoning, classic two-column proofs, and applications of Algebra to Geometry. Students will apply geometry in a variety of ways to understand real life applications.

Required

**Algebra II** - Algebra II is designed to teach students concepts and skills of higher algebraic functions.

Required

**Pre-Calculus** - this course is designed to prepare the student for higher mathematics. Students will enhance their algebra abilities to prepare for calculus. Students will also cover trigonometry in detail. Also covered are limits and series.

Elective

Prerequisite- Geometry and Algebra II, with teacher recommendation

Weighted Course

Dual credit available

**Calculus** - Calculus covers the concepts of limits, differentiation, integration, and various applications of calculus. This course includes techniques of differentiation and integration of algebraic, trigonometric and logarithmic equations.

Elective

Prerequisite- B average in

Pre-Calculus

Weighted Course

Dual credit available

**College Algebra** - This is a dual credit class in which students may apply to receive 4 hours of college credit if they meet the GPA requirement of 3.0 or higher. The course is a detailed study of functions, their properties and their graphs. Topics covered include linear and quadratic functions, polynomial and rational functions, exponential and logarithmic functions, matrix operations and their applications, and systems of equations.

Elective

Weighted Course

Dual credit available

## Science

**Physical Science** – This course encompasses the principles of basic Chemistry, Physics, and Mathematics. This course provides students with the basic foundation to continue further study in Earth and Space Science, Biology, Chemistry, and Physics. Embedded standards for Technology & Engineering are taught in the context of the content standards that enable students to: Practice Ethics, Think Critically, Investigate, Analyze, Evaluate Data, and Communicate Results.

Required

**Biology** - This course is designed to provide an overview of the science of life. Students will study the nature of life/science, ecology, biochemistry, cell structure and function, photosynthesis, cellular respiration, genetics and evolution which is defined as “change over time”. This is a required science course in the state of Missouri and students will be engaged in scientific inquiry, laboratory investigations and thinking like a scientist.

Required

Prerequisite – None

**Biology II**- AP Biology is designed for students who are interested in pursuing a science degree after high school. This course is fast paced and challenging. Students will be expected to carry over information learned in Biology I and apply it to the material learned in this course. Students should be prepared to spend an ample amount of time on homework to get the most out of this college class. Students will be performing labs carried out at the college level.

Prerequisite- Chemistry recommended

Weighted Course

**Chemistry** - This course is designed to provide a general overview in chemistry. It is the study of the structure, properties, and composition of matter. Areas of emphasis include matter, energy, problem solving, atomic theory, periodic law, chemical bonding, chemical formulas, nomenclature, stoichiometry chemical reactions and equations, gas laws, and environmental impact of chemicals

Elective

Prerequisite – Physical Science, Biology, Algebra I with a C- average.

**Chemistry II** - This course is designed for students who have shown a proficiency in studying science and who have exhibited interest in and enthusiasm for science. This course is intended to help students realize the important role that chemistry will play in their personal and professional lives. It will help students use principles of chemistry to think more intelligently about current issues they will encounter involving science and technology. Topics to be studied include chemistry laboratory skills, the classification and structure of matter, ratio and proportion of chemical reactions, physical chemistry, acid-base chemistry, kinetics, thermodynamics, electrochemistry, and organic chemistry. Critical thinking (the ability to carry out systematic thought processes in making decisions and solving problems), inquiry (solving problems through scientific investigation) and science ethics will be stressed in this class.

Elective

Pre-req. – A/B-average in Chem. I and a B-average in Algebra II (or approval of the instructor)

**Environmental Science** – This course is a mix of earth and environmental awareness. This course will study the natural world and the effects humans impact the environment. This class will include real world scenarios where students must come up with solutions to help solve. We will study things from ecology to renewable energy to the spreading of diseases.

Prerequisite – None

**Physics** - The purpose of this course is to develop a clear knowledge of the basic principle or concepts on which Physics is based and an ability to solve problems involving the following:

1. An understanding of the nature of measurements and mathematics
2. A brief review of algebra, geometry, trigonometry, and graphing using physical quantities
3. Development of the understanding of the basic principles of Physics and the applications of those principles to real world problems
4. Explanations and experiments that lead students to an awareness of how physical laws operate in everyday phenomenon

Elective

Prerequisite- B average in Algebra II  
or approval of the instructor physical science

## Foreign Language

### Not required for graduation but encouraged for college bound students

**Spanish I** - Communication skills will be the focus of Spanish I. Students will learn the language through listening, speaking, reading, and writing. The study of vocabulary, grammar, and appropriate pronunciation will be stressed in order to build a solid foundation for communicating. A solid background in English, as a first language is recommended.

Elective

Prerequisite—none

**Spanish II** - Building on the communication skills developed in Spanish I will be the goal of Spanish II. Communication skills will continue to be stressed. Reading and writing will involve more difficult material. A wider range of vocabulary and verb tenses will be covered with the goal of greater fluency in the language.

Elective

Prerequisite—Spanish I

## Practical Arts

### One credit needed for graduation

### Half credit of Personal Finance needed for graduation

**Computer Applications** - The course is designed for the student who wishes to develop keyboarding skills for personal use, educational use, and business use. This class is vital for students planning to enter the workforce or postsecondary education. The computer keyboard will be learned by using the touch system. Students will learn how to properly setup and format business documents, tables, and letters using Word. Also, students will learn how to properly format MLA style reports essential for high school and college reports. Students will also be introduced to Excel spreadsheets, PowerPoint presentations, database management, and desktop publishing. This course is a prerequisite to Computer Applications II and MultiMedia.

Elective

Prerequisite—none

**School Publications** - The goal of this class is to publish the school yearbook. Students are involved in all phases of yearbook publication from sales to final distribution, journalistic principles involving copy writing and page designs are taught and applied in the development of the book. Students also keep the school community informed through the publication of the school newspaper twice a month. Students learn interviewing and news gathering skills which leads to the writing and editing of news articles.

Elective

Prerequisite- Computer Applications & teacher approval.

**Accounting I** - Accounting is the 'Language of Business.' Whether you want to be a clerk, an accountant, a manager, or own your own business, you'll need to understand the basics of accounting. The goals of Accounting I are to enable students to learn accounting terminology, understand accounting concepts, principles and practices and apply accounting procedures. Activities include using the accounting equation, completing the accounting cycle, entering transactions to journals, posting to ledgers, preparing end-of period statements and reports, managing payroll systems, completing banking activities, calculating taxes, and performing other related tasks. Students will learn how to record the financial records for a sole proprietorship (individual business owner) - service business and merchandising business organized as a corporation. All students, regardless of their occupational choice can benefit from accounting instruction since it is an integral part of every business institution and organization.

Elective

**Computer Applications 2-** This course provides content for knowledge and skills required in the technology-based workplace. The demand will continue to expand for individuals to use computer hardware and software to create documents, gather information, and solve problems. This class is vital for students planning to enter the workforce or college. This course is designed to help students master beginning and advanced skills in the areas of word processing, spreadsheet applications, desktop publishing, presentation software, database management, Internet usage, and some Multimedia applications.

Elective

Prerequisite- Computer Applications

**Multimedia** - This is a very diverse course that covers many topics. Students will work with multimedia software to develop electronic presentations. Students will learn how to manipulate text, art and graphics, photography, animation, audio, and video for presentation in VARIOUS media formats (including text). The topics may include (but not limited to): Print Design & Publishing, Computer File Types, Computer History, Copyright Laws, Photography, Web Design, Digital Video, Presentations, Simple Game Programming, Photo Editing, etc.

Elective

**Family and Consumer Science I** - This is a comprehensive course offered to ninth through seniors. As every person will be a homemaker regardless of lifestyle, the material covered in this course would be useful to anyone. The areas covered in Family and Consumer Science I include: personal enhancement, housing, sewing, foods, family and personal relations and consumer skills.

Elective

Prerequisite-none

**Family and Consumer Science II** - This comprehensive class is offered after FACS I. Since everyone will be a homemaker regardless of lifestyle, this course would be useful to anyone. The units in Family and Consumer Science II will not be identical to those in Family and Consumer Science I. For instance, different foods will be prepared in the food units, and the garment constructed in the sewing unit will be based on the individual's experience.

Elective

Prerequisite-Family And Consumer Science I

**Family Relations** - This course looks at marriage and family structures. Students work in improving communication skills. They also study sexual development.

Elective

Prerequisite-None.

Senior and Junior Course

Semester Course

**Child Development** - This class focuses on development from conception through age six. It is offered to students at the eleventh and twelfth grade levels, but may be taken by a tenth grader if circumstances warrant. Since it is generally believed that learning about child development increases self-understanding, that parenting skills depend on knowledge coupled with appropriate attitudes and skills. Which is applicable to parenting is also true for the childcare workers, this would be a very worthwhile course for anyone, especially one contemplating parenthood or childcare worker as a part of his/her future. The interrelationship of physical, mental, social, and emotional growth at all stages from conception through age six is the basis of the information provided in this course.

One semester

Elective

Prerequisite-none

Semester Course

**Personal Finance** - Understanding and managing personal finances are key to one's future financial successes. This one-semester course is based on the Missouri Personal Finance Competencies and presents essential knowledge and skills to make informed decisions about real world financial issues. Students will learn how choices influence occupational options and future earning potential. Students will also learn to apply decision-making skills to evaluate career choices and set personal goals. The course content is designed to help the learner make wise spending, saving, and credit decisions and to make effective use of income to achieve personal financial success.

One Semester

Prerequisite- None (No Freshman)

**Agriculture Science I** - A course designed for instruction in animal science, agricultural mechanics, career exploration, leadership and personal development, and supervised agricultural experience. Units may include student leadership, personal growth, and career success, the United States and World Agriculture, beef, hog, sheep, equine production and management, animal reproduction, animal nutrition, arc welding, MIG welding, torching, and a small shop project. FFA membership is required.

Elective

Prerequisite-none

**Agricultural Science II** - A course designed for instruction in plant and crop science, soils, entomology, horticulture, and forestry, animal science, and additional instruction in agricultural mechanics, career development, leadership, and supervised agricultural experience. Units to be covered may include: forestry, entomology, meats, field crops/agronomy, soils, students leadership, personal growth, career success, and a wood shop project. FFA membership is required.

Elective

Prerequisite- Agriculture Science I

**Agricultural Construction I** - This course utilizes welding in the development and construction of major metal and wood projects. Units to be covered may include: Concrete, Welding, Wood Working, Building a Utility Shed, and 2<sup>nd</sup> semester will be for students to work on their own projects. FFA membership is required. Course is taught every other year with correlation to Agriculture Power I.

Prerequisite- None

(Junior or Senior only)

**Horticulture** - This course develops a basic understanding of greenhouse techniques. The production of greenhouse crops will be used to demonstrate procedures such as plants started from cuttings, seeds, grafts, and layering. Students will manage the greenhouse crops as if they were their own. Units to be covered may include: Landscaping, Greenhouse Management, Poinsettia Production, Wildflower and Native Grass Production, Floriculture, Floriculture Design, Landscape Design through the CAD (Computer Animated Design) Program, Vegetable Production, Bedding Plant Production, Hanging Basket Production, Introduction into Plant Science, Sexual and Asexual Propagation, and Greenhouse Operation. FFA membership is required.

Prerequisite- None

**Advanced Animal Science** -Advanced study in animal production, management, marketing, nutrition, breeding, production records, selection, animal health, waste management, and biotechnology may be included in this course. Students will utilize the FFA School Farm for a hands-on experience with livestock animals. FFA membership is required.

Prerequisite- Agriculture Science I

**CAD**- CAD stands for computer animated drafting, and it will be a class that students will learn how to digitally engineer and construct objects on the computer. Students will use the latest in CAD software throughout the year to learn basic principles of CAD programming and then build their skills from there. CAD software is used in all engineering careers along with several construction careers. FFA membership is required.

Prerequisite- Geometry

**Agriculture Structures**- will allow students to learn more about building and working on several shop applications in a controlled and structured environment. Lessons may include: Small gas engines, electrical, plumbing, concrete, metal shop, wood shop, and welding. FFA membership is required.

Prerequisite-None  
(No Freshmen)

**Food Science**- students will learn more about the food industry by understanding the principles on how food is made, where it comes from, and the science of making food. Students will learn the art and principle of processing the food and then how to cook it. FFA membership is required.

One Semester  
Prerequisite-None  
(No Freshman)

**Agricultural Business**- This class involves the learning about business practices from an agricultural point of view. Students will learn how to create effective resumes, learn sales techniques, farm management practices, and study the futures market. Students will also learn about Personal Finance and have the opportunity to earn a Personal Finance credit during the course.

One Semester  
Prerequisite-None  
(No Freshmen)

## Fine Arts

### One credit needed for graduation

**Intro to Art** - Intro to art is an introductory course to explore various visual art forms and techniques through the elements and principles of art and design. Students will be introduced to a variety of subject matter and media while creating two-dimensional and three dimensional artworks. Students will critique artworks, discuss aesthetic issues, and understand how art is related to history and culture. Grade level 9, 10, 11, 12

Elective

Prerequisite-none

**Ceramics-** This course will introduce various approaches to clay construction, while applying the elements and principles of design to create three-dimensional form. The course will emphasize hand building methods: pinched forms, coil, and slab construction. Various decorating and glazing techniques will be introduced along with clay firing processes. Functional as well as sculptural applications will be explored. Students will critique artworks, discuss aesthetic issues, and explore traditional and contemporary ceramics. Grade level 10, 11, 12

Elective

Prerequisite-none

**Ceramics II:** This course is available to students interested in continuing their study of Ceramics. Students are expected to work independently as they continue to advance skills and techniques previously learned while exploring new methods. Grade level 11,12.

Elective

Prerequisite: Ceramics and Instructor approval

**Ceramics III:** This course is available to students interested in continuing their study of Ceramics. Students are expected to work independently as they continue to advance skills and techniques previously learned while exploring new methods. Grade level 12.

Elective

Prerequisite: Ceramics II and Instructor approval

**Sculpture-** This course will introduce the elements and principles of design in three-dimensional form. Students will develop skills of three-dimensional problem solving as they work with a variety of media. Students will become familiar with the tools and techniques needed for sculptural and relief production. Students will critique artworks, explore traditional and contemporary sculpture, and discuss aesthetic issues related to sculpture. Grade level 10, 11, 12.

Elective

Prerequisite-none

**Sculpture II:** This course is available to students interested in continuing their study of Sculptural forms. Students are expected to work independently as they continue to advance skills and techniques previously learned while exploring new methods. Grade level 11,12.

Elective

Prerequisite: Sculpture and Instructor approval

**Drawing/Painting-** This course will introduce a variety of drawing and painting techniques and media while applying the elements and principles of art and design. Students will develop technical skills and a personal style while exploring a variety of subject matter. Students will critique artworks, discuss aesthetic issues, and understand the evolution of drawing and painting in historical context. Grade level 10, 11, 12.

Elective

Prerequisite- Into to Art recommended but not required.

**Drawing & Painting II-** This course is available to students interested in continuing their study of Drawing and Painting media. Students are expected to work independently as they continue to advance skills and techniques previously learned while exploring new methods. Grade level 11,12.

Elective

Prerequisite: Drawing & Painting and Instructor approval

**Advanced Art-** This is course is for students who wish to advance in one or more art specialties. Students will work independently toward artistic goals set by themselves and the instructor. Successful completion of Ceramics, Sculpture, or Drawing and Painting plus instructor approval is required.

Prerequisite- Ceramics,  
Sculpture or Drawing & Painting plus Written  
Consent

Grade level 11,12

**Band-** The high school band is a yearly course offering in the study of instrumental music. Centering on a rigorous performance schedule, the high school band performs as the marching band, concert band, pep band and students may have the opportunity to perform as a soloist or in a small ensemble. The band is a facet of Elsberry High School that is extremely visible to the community, so it is expected of individuals to work hard and stay focused on excellence throughout the year. Parents and students must understand that the graded activities are the performances outside of class. Director approval required.

Elective

Prerequisite – Middle School Band

**Chorus -** The high school choir is an open enrollment yearly course offering that allows for both vocalists and non-vocalists to learn and train in a performance based environment. Come one, come all, but be ready to sing!

Elective

Prerequisite – none

**Chamber Music -** This is a performance based class. Open to grades 9-12 upon teacher approval. Students will become comfortable with interpreting and performing written musical notation, they will be exposed to an array of literature and techniques and will have the opportunity to experiment with percussion, voice, and wind instruments. The types of ensembles that can be arranged will be based on the students enrolled in the course, but vocal and percussion groups can be expected. Public performances will be part of the graded activities.

Elective

Prerequisite - None

**Physical Education**  
**One credit of PE needed for graduation**  
**Half credit of Health needed for graduation**

**Physical Education** - This course will cover several aspects of fitness and sport game activities. The physical education class will provide students with a program that is academic and that develops students in the cognitive, psychomotor, and affective domains. Students shall be introduced to a variety of physical activities to ensure that all students meet academic performance standards in skill common to survival, work, and leisure pursuits. Each student will be evaluated on participation, attitude, and dressing out. Students shall have a full understanding and appreciation of why to be fit and how to be well for a happier, healthier lifestyle.

Required  
Prerequisite – none

**Health** - This course address understanding the human body, mental health, family and social health, drugs and communicable diseases.

Required  
One semester  
Prerequisite- none, No Freshman

**Life Sports-** Lifetime Sports is a high school course for both boys and girls who wish to participate in physical activities that can generally be pursued throughout one's lifetime. Students will learn rules and fundamental techniques for a variety of games. In addition, students will learn basic techniques and safety guidelines that should be followed when exercising. Emphasis in this class will be more on development of a spirit of cooperation and good sportsmanship than on a fostering sense of competition.

Elective

**Weight Training-** The course is designed to give student the opportunity to learn weight training concepts and techniques used for obtaining optimal physical fitness. Students will benefit from comprehensive weight training and cardio-respiratory endurance activities. Students will learn the basic fundamentals of weight training, strength training, aerobic training, and overall fitness training and conditioning. Course includes both lecture and activity sessions. Students will be empowered to make wise choices, meet challenges, and develop positive behaviors in fitness, wellness, and movement activity for a lifetime.

Elective

## Pike/Lincoln Technical Center

**3D Modeling and Animation-** In the 2-year 3D modeling and animation course at Pike-Lincoln students will explore the different career opportunities in the wide field of 3D animation and design. In the class, students will learn the basics of animation tools, animation techniques and basic animation programming. Students will be able to apply these skills in advertising, movie and video production, game development and many other industrial applications.

**Auto Collision Technology-**The 2-year Auto Collision course at Pike-Lincoln is designed to prepare you for an entry-level position in the Auto Body field. The fundamentals and related information are covered in the classroom, and the remainder of the class time is spent working and perfecting skills in the shop. Much time is spent on surface preparation and painting. Paint mixing and tinting is also included. Classroom equipment includes spot and MIG welding, hand tools, and frame-straightening equipment and smaller tools and equipment. A spray booth with exhaust is utilized for most painting. An Auto Collision Technician repairs and refinishes vehicle bodies, removes dents, and replaces crumpled parts, tightens brackets and loose bolts, and makes other minor repairs. They use a variety of equipment and tools, including drills, riveters, welders, hammers, files, screwdrivers, sanders, measuring tools and power machinery. Some install customized equipment.

**Automotive Services Technology-** Automotive Services is a 2-year, highly technical program designed to prepare you with an extensive knowledge of automotive parts and their application, and entry into mechanically related occupations. High school students receive 3 credits per year, while adult students attend five hours per day and complete the curriculum in one year. In addition to training in shop skills, written and oral communications, internal services, and administrative procedures, you will learn how to operate various shop machines including the electronic analyzers, precision measuring devices, brake lathe, wheel alignment equipment, hydraulic press, and hand tools. You may also receive individualized specialized training in areas of special interest, such as diesel engines, service department, air conditioning specialist, small engine technician, and other related areas of interest.

**Computer and Networking Technology-**The Computer and Networking Technology course is designed as a one or two year study of computer hardware, operating system software, and networking technologies. Students will learn how to install and perform repairs on computer hardware, software, and peripheral equipment during first year of the course and will have the opportunity to master competencies required for CompTIA A+ Certification. During the second year, students will learn how to design, install, and troubleshoot computer networks and will have the opportunity to master competencies required for CompTIA N+ Certification.

**Diesel Technology-** Diesel Technology is a 2-year, highly technical program designed to prepare students to use critical thinking skills to explore basic diesel technology and apply these skills in the service and maintenance of medium and heavy-duty trucks and similar equipment, including farm and construction equipment. Articulation with Linn State Technical College is planned so students can earn up to 15 credit hours toward an associate degree. Students will learn how to operate various equipment including electronic diagnostic analyzers, precision measuring devices, wheel alignment equipment, hydraulic presses, and cranes in a brand new state-of-the-art diesel lab.

**Digital Media-** Digital Media is a one or two year program designed to offer training in the areas of desktop publishing, web page design, presentations, and digital video. High school students receive 3 credits per year, while adult students may attend five hours per day. The course is designed to teach you the elements of design, which will allow you to create marketing/advertising materials, such as brochures, flyers, booklets, etc. You will also create web pages, and a digital video using a state-of-the-art iMac computer.

**Health Sciences-** This program is designed to give high school students an introduction into careers in the health care field. The first year of the program is spent learning anatomy and physiology, health care terminology, and information about the different career opportunities. Students also learn some basic nursing and health care skills. During the 2nd semester, students will rotate through different clinical sites to gain a greater understanding of the different fields. During the 2nd year, students will focus on one area of health care. During the 1st semester, students will work on basic skills and knowledge. They are at their specific clinical sites for most of the 2nd semester.

**Welding Technology-**The Welding course is designed to cover the theory, fundamentals, and basic processes, along with the practical application that builds skills and techniques for welders. Students are prepared to enter entry-level employment, or to continue their education leading toward journeyman level. A welding technologist uses hand-held or stand-alone welding equipment and torches to join or cut metal or plastics. They may fuse together plastic sheets, weld metal parts, or trim metal from objects as well as follow blueprints and work orders. Specialized training is also available for the skilled welder who wants specialized training in the area of MIG, TIG, and plasma cutting. The welding training is geared to the realities of the job market in the surrounding area. Students interested in related careers can learn the foundations in this program. The curriculum is designed to be taught as a two-year program for high school students or as a one-year program for adults who attend as full-time students.

**Law Enforcement-**Students in the law enforcement program will learn the basics of police science and criminal justice. Students will be prepared to work with the correctional system, attend the police academy, continue their education, and be ready for the military.