WEST HARRISON COURSE DESCRIPTIONS

2019-2020

NOTICE OF NONDISCRIMINATION

Students, parents, employees and others doing business with or performing services for the West Harrison Community School District are hereby notified that this school district does not discriminate on the basis of race, color, national origin, religion, sex, disability, sexual orientation, gender identity, marital status, or age (except students), in admission or access to, or treatment in, its programs and activities.

The school district does not discriminate on the basis of race, color, national origin, religion, sex, disability, sexual orientation, gender identity, marital status, or age (except students), in admission or access to, or treatment in, its hiring and employment practices. Any person having inquiries concerning the school district's compliance with the regulations implementing Title VI, Title VII, Title IX, the Americans with Disabilities Act (ADA), § 504 or Iowa Code § 280.3 is directed to contact:

Attn: Superintendent
410 Pine St.
Mondamin, IA 51557
(712) 646-2231

who has been designated by the school district to coordinate the school district's efforts to comply with the regulations implementing Title VI, Title VII, Title IX, the ADA, § 504 and Iowa Code § 280.3 (2007).

COLLEGE ATHLETIC ELIGIBILITY

To be eligible for NCAA college athletics, you must:

- Graduate from high school.
- Earn a grade point average of at least 2.00 (on a 4.00 scale) in a core curriculum of at least 13 academic courses successfully completed during grades 9 through 12. Only courses listed as approved on the West Harrison "List of NCAA Approved Core Courses" can be used to calculate your NCAA GPA. No special values are allowed for "+" or "-" grades. The chart below indicates the number of years of NCAA core courses that must be completed.

	Division 1	**Division 2**
English Core	4 years	3 years
Math Core (Algebra 1 or higher)	2 years	2 years
Science Core (One year Lab Science)	2 years	2 years
Social Science Core	2 years	2 years
From English, Math, or Science	1 year	2 years
Additional academic courses (in any of the above areas or foreign language, computer science, philosophy or non-doctrinal religion)	3 years	3 years
Total Core Units Required	14	14

- West Harrison NCAA approved core courses can be found on the NCAA website: www.ncaaclearinghouse.net, selecting the "prospective student-athletes" link, and then selecting "Lists of Approved Core Courses". West Harrison's school code is 52779

- For Division II you must earn a sum of scores of at least 68 on the ACT or a combined score of 820 on the SAT, there is no sliding scale.

- For Division I you must have a core-course grade-point average and a sum score on the ACT based on the qualifier index scale below:

Core GPA	ACT Sum
2.50 and above	68
2.475	69
2.450	70
2.425	70
2.400	71
2.375	72
2.350	73
2.325	74
2.300	75
2.275	76

Core GPA	ACT Sum
2.225	78
2.200	79
2.175	80
2.150	80
2.125	81
2.100	82
2.075	83
2.050	84
20.25	85
2.000	86

- Incoming college freshman will also have to satisfy amateurism eligibility requirements. Details on those requirements can be found on the NCAA's website www.NCAA.org or in the "Guide for the College-Bound Student-Athlete".

You are responsible for obtaining the "Guide for College-Bound Students-Athlete" from the school website, understanding eligibility guidelines and meeting all criteria.

FOUR-YEAR EDUCATIONAL PLAN

This page should be used by students and parents to plan a four-year educational program. The graduation requirements listed precisely in this guide will be helpful in completing this page. **Generally speaking, students should complete graduation requirements as soon as possible.** As students and parents plan, always be aware of classes still needed to meet graduation requirements. **Please remember that this is just a plan; it may not fall into place exactly as you have it because of scheduling conflicts.**

In addition to course load, students and parents need to consider involvement in activities as planning occurs. It is recommended that students involve themselves in no more than three activities (including sports) at a given time and hold a role of responsibility in only one of those clubs or organizations.

FRESHMAN YEAR

1		1	
2		2	
3		3	
4		4	
5		5	
6		6	
7		7	
8		8	

SOPHOMORE YEAR

1		1	
2		2	
3		3	
4		4	
5		5	
6		6	
7		7	
8		8	

JUNIOR YEAR

1		1	
2		2	
3		3	
4		4	
5		5	
6		6	
7		7	
8		8	

SENIOR YEAR

1		1	
2		2	
3		3	
4		4	
5		5	
6		6	
7		7	
8		8	

Student Signature_____

Parent Signature_____

WEST HARRISON CSD
CREDITS NEEDED FOR HIGH SCHOOL GRADUATION
54 Credits Required To Graduate

CORE	1 Credit 1 Semester	
HEALTH	1 Credit 1 Semester	
LANGUAGE ARTS	8 Credits 8 Semesters	Must include 2 semesters of English 9, 1 semester of Speech, 1 semester of Intro to Literature, and 1 semester of Grammar.
MATHEMATICS	6 Credits 6 Semesters	Must take Math in high school during your 9th, 10th, and 11th grade years. Must include 2 semesters of Algebra 1.
PERSONAL FINANCE	1 Credit 1 Semester	
PHYSICAL EDUCATION	4 Credits 8 Semesters	1/2 credit per semester—may be waived for sports participation or a full academic class load.
SCIENCE	6 Credits 6 Semesters	
SOCIAL STUDIES	6 Credits 6 Semesters	Must include 2 semesters of American History, 1 semester of American Government, and 1 semester of Economics.
ELECTIVES	21 Credits 21 Semesters	You will need more electives if any of your PE credits were waived.
TOTAL CREDITS REQUIRED FOR GRADUATION	54 CREDITS	

Physical Activity Contract- 2019-2020 School Year

In 2008, the Iowa Legislature enacted the "Healthy Kids Act", requiring that all students in grades 6-12 engage in physical activity for a minimum of 120 minutes per week in which there are at least five days of school. The law also requires that we monitor how students fulfill this requirement.
Please fill out the items below, sign (both student and parent/guardian), and ***return to the school with the 2019-2020 class registration forms.*** If you have any questions, call 712-646-2231.

Name of Student: _____ Grade (2019-2020):_____
School activities that student will be involved in during the 2019-2020 school year. Include estimate of minutes per week:

Fall		Winter		Spring	
Cross Country		Basketball		Track	
Football		Wrestling		Baseball	
Volleyball		Swimming		Softball	
Swimming		Show Choir			
Marching Band		Cheerleading			
Cheerleading					
Trapshooting					

Other* (what, when, how many minutes per week)

_____

_____

_____

*Non-school activities (may include non-school sport teams, gymnastics, dance, individualized exercise program, etc.) that student will be involved in during the 2019-2020 school year.

Signature of Student:_____ Date_____

Signature of Parent/Guardian:_____ Date_____

Signature of Building Principal:_____ Date_____

COURSE DESCRIPTIONS

AGRICULTURE

Agriculture Education I (1 credit per semester) **Grades 9-12 Elective**

Introduction to Agriculture, Food, and Natural Resources (AFNR) introduces students to the range of agricultural opportunities and the pathways of study they may pursue. Science, mathematics, reading, and writing components are woven in the context of agriculture and students will use the introductory skills and knowledge developed in this course throughout the CASE™ curriculum. Throughout the course are activities to develop and improve employability skills of students through practical applications. Students will explore career and post-secondary opportunities in each area of the course. Students will experience hands-on activities, projects, and problems. Student experiences will involve the study of communication, the science of agriculture, plants, animals, natural resources, and agricultural mechanics.

Agriculture Education II (1 credit per semester) **Grades 10-12 Elective**

Prerequisites- Agriculture Education I

Principles of Agricultural Science—Animal is a foundation-level course engaging students in hands-on laboratories and activities to explore the world of animal agriculture. During the course, students develop a comprehensive Producer's Management Guide for an animal of their choice. Student experiences will involve the study of animal anatomy, physiology, behavior, nutrition, reproduction, health, selection, and marketing. Throughout the course, students will consider the perceptions and preferences of individuals within local, regional, and world markets. Students will explore hands-on projects and activities to learn the characteristics of animal science and work on major projects and problems similar to those that animal science specialists, such as veterinarians, zoologists, livestock producers, and industry personnel, face in their respective careers. Students will investigate, experiment, and learn about documenting a project, solving problems, and communicating their solutions to their peers and members of the professional community.

Agriculture Education III (1 credit per semester) **Grades 10-12 Elective**

Prerequisites- Agriculture Education I

Principles of Agricultural Science—*Plant* is a foundation-level course teaching students the form and function of plant systems. Students experience various plant science concepts through inquiry-based exercises filled with activities, projects, and problems utilizing laboratory and practical experiences. Student experiences will include the study of plant anatomy and physiology, classification, and the fundamentals of production and harvesting. Students will learn how to apply scientific knowledge and skills to use plants effectively for agricultural and horticultural production. Students will discover the value of plant production and its impact on the individual, the local, and the global economy. The course will provide an overview of the field of agricultural science with a foundation in plant science. These lessons include working in teams and exploring hands-on projects. Students will work on major projects and problems similar to those that plant science specialists, such as horticulturalists, agronomists, greenhouse and nursery managers, and plant research specialists, face in their respective careers.

Principles of Agronomy (1 credit) **Grades 11-12 Elective IWCC College Credit**
Introductory principles plant-soil-climate relationships in crop production. The course is designed after a similar course at Iowa State University and uses many of the same materials. Topics discussed Seed Anatomy, Crop and Weed Identification, Disease and Insect identification, Grain Handling, Soil and Water.

Survey of the Animal Industry (1 credit) **Grades 11-12 Elective IWCC College Credit**
Survey of the Animal Industry deals with issues that impact the American and International Animal Industry. Topics discussed include breeds, basic management, and marketing of farm animals. Specific topic involves beef and dairy cattle, companion animals, horses, poultry, sheep, swine and their products.

ART

Ceramics/ Pottery (1 credit) **Grades 9-12 Elective**
Within this course, students explore their creative talents in regards to creating ceramics and pottery using a variety of different mediums. This is a hands-on class where students receive instruction and insight as they improve their skill and create a variety of projects.

Advanced Ceramics/ Pottery (1 credit) **Grades 9-12 Elective**
Within this course, students extend their creative talents and advance their skills in regards to creating ceramics and pottery using a variety of different mediums. This is a hands-on class where students discover in more depth how to finish their works with surface decorations and glazing techniques.

Drawing (1 credit) **Grades 9-12 Elective**
This course focuses on drawing and technique. Students are given instruction and insight to improve their drawing skills and create a variety of projects.

Advanced Drawing (1 credit) **Grades 9-12 Elective**
Prerequisites- Drawing
This course takes students beyond the skill level they achieved in introductory drawing classes. They work with several different mediums to create a variety of projects, receiving instruction and insight as they progress.

Painting (1 credit) **Grades 9-12 Elective**
This course focuses on painting and various techniques associated with this skill. Students may work with watercolor, tempera, oils, acrylics, etc. as a part of this class. They will receive instruction and insight to improve their painting skills and create a variety of projects.

Advanced Painting (1 credit) **Grades 9-12 Elective**

Prerequisites- Drawing

This course takes students beyond the skill level they achieved in introductory painting classes. They work with several different mediums to create a variety of projects, receiving instruction and insight as they progress.

Art History (1 credit) **Grades 9-12 Elective**

This course introduces students to significant works of art, artists, and artistic movements that have shaped the art world and have influenced or reflected periods of history. These courses often emphasize the evolution of art forms, techniques, symbols, and themes.

Art of Crafts (1 credit) **Grades 9-12 Elective**

This course is designed for students who are interested in the creative process of making hands on objects. Students will get to experience working with a variety of different mediums such as paint, clay, fabric, metal, wood, and yarn, while learning multiple studio techniques.

Multicultural Art (1 credit) **Grades 9-12 Elective**

This course covers the language, materials, and processes of art forms from many cultures around the world and the design elements and principles supporting these works of art. Students will create projects based on their learning of multicultural art.

BUSINESS EDUCATION/COMPUTER SCIENCE

CORE (1 credit) **Grades 11-12 Required**

This course teaches both job seeking and job keeping skills. Students will develop an employment portfolio, which will include a resume, cover letter, references, network lists, and career exploration materials. Both a mock interview and one-day job shadow will be required as a part of this class.

Personal Finance (1 credits) **Grades 9-12 Required**

This course gives students a consistent framework for thinking through financial choices in order to improve their well-being. Decisions require action. Students who take charge of their finances are better prepared to invest in themselves and cope with the financial ups and downs that life will bring. An activity and project-based approach will be used.

Intro to Business (1 credit) **Grades 9-12 Elective**

This course provides a fundamental working knowledge of the varied aspects of business and prepares students for future studies in more specialized topics within the subject area. Students will increase their awareness of the overall environment and function of business as well as observe its contributions to society. This course also covers communication technology, globalization, business ethics, and business law. Law topics explored include ethics, contracts, sales, court systems, employment, and personal business transactions in business and personal law beginning with the origins of law. The material in this course provides students with the practical guidelines for becoming well-informed contributing citizens and an understanding of how the law governs business and its operations.

Accounting (1 Credit Per Semester) **Grades 9-12 Elective**

Prerequisite- Intro to Business, Algebra I

Accounting establishes a foundation for understanding business, and provides initial knowledge needed for an accounting career. This class introduces the principles and process involved in double-entry accounting systems. It covers the entire accounting function including the use of journals, ledgers, worksheets, and financial statements and specialized accounting functions such as banking and payroll. This class is recommended for anyone interested in pursuing a career in business and/or accounting. Learning can also be transferred to apply to personal situations in everyday life, including topics such as checking accounts, payroll, expenses, income, profit and net loss. Students will be introduced to computerized accounting.

Advanced Accounting (1 credit) **Grades 10-12 Elective**

Prerequisites- Intro to Business, Algebra I, Accounting I

Students will study the basic concepts of accounting including debits and credits, the accounting equation, money transactions, journalizing and posting, payroll, accounts payable, accounts receivable, financial statements, and basic business forms. Students will be introduced to computerized accounting.

Entrepreneurship (1 credit) **Grades 9-12 Elective**

Prerequisite- Intro to Business

In this course you will learn the basics needed to plan and launch your own business. Do you have what it takes to start a new business? Do you have an idea for a business but need the tools to get started? This course will provide you with the core skills you need to become successful. In this course you will study the characteristics of successful entrepreneurs. You will also learn about self-employment and basic economic concepts related to small businesses, such as competition and production. This course will also walk you through the steps of setting up a business, including developing a business plan, a mission and a vision, attracting investors, and marketing your company.

Introduction to Computers (1 credit) **Grades 11-12 Elective IWCC College Credit**

This course provides an overview of microcomputer applications including Microsoft Office 2013, Microsoft Word 2013, Microsoft Excel 2013, Microsoft Access 2013, and Microsoft PowerPoint 2013. No experience with a computer is assumed, and no mathematics beyond the high school freshman level is required.

Comprehensive Spreadsheets (1 credit) **Grades 11-12 Elective IWCC College Credit**

Prerequisite- Intro to Computers

As a student in this course, you will learn the most important topics of Microsoft Office Excel 2013. No prior computer experience is assumed. First, you will be ready to delve into Microsoft Office Excel 2013 to learn how to create and format a workbook and work with formulas, functions, charts, and graphics. Once you have mastered this, you will learn PivotTables and Pivot Charts, advanced formulas and functions, and how to manage multiple worksheets. Finally, you will learn advanced techniques, such as financial and what-if analyses, external data usage, and collaboration on shared workbooks.

Intro to PC Support (1 credit) **Grades 11-12 Elective**

In this course you will be introduced to the world of computers and computer repair. Students will use hands-on techniques to learn about computer parts, software, and tools for computer repair and troubleshooting. This course leads into PC Support I.

PC Support I (1 credit) **Grades 11-12 Elective IWCC College Credit**

Prerequisite- Intro to PC Support

PC Support is a hands-on, career-oriented course with an emphasis on practical experience to help students develop fundamental computer skills, along with essential career skills. The Cisco® IT Essentials curriculum helps students prepare for entry-level ICT career opportunities and the CompTIA A+ certification, which helps students differentiate themselves in the marketplace to advance their careers. In addition, the course provides a learning pathway to the Cisco CCNA® curricula.

Computer Science Discoveries (1 credit) **Grades 9-12 Elective**

Unit 1 introduces the broader social impacts of computing. Through a series of design challenges, you will learn how to better understand the needs of others while developing a solution to a problem. The second half of the unit consists of an iterative team project, during which teams have the opportunity to identify a need that they care about, prototype solutions both on paper and in App Lab, and test solutions with real users to get feedback and drive further iteration.

Unit 2 is about the importance of data in solving problems and highlights how computers can help in this process. The first chapter explores different systems used to represent information in a computer and the challenges and tradeoffs posed by using them. In the second chapter you'll learn how collections of data are used to solve problems, and how computers help to automate the steps of this process. The chapter concludes by considering how the data problem solving process can be applied to an area of the your choosing.

Unit 3 explores the role of hardware platforms in computing and how different sensors can provide more effective input and output than the traditional keyboard, mouse, and monitor. Using App Lab and Adafruit's Circuit Playground, you'll develop programs that utilize the same hardware inputs and outputs that you see in the smart devices, looking at how a simple rough prototype can lead to a finished product. The unit concludes with a design challenge to use the Circuit Playground as the basis for an innovation of your own design.

FAMILY AND CONSUMER SCIENCE

Intro to Family and Consumer Sciences (1 credit) **Grades 9-12 Elective**

This is a comprehensive Family and Consumer Science course. Through this course, students will learn skills for developing and demonstrating respectful and caring relationships in the family, workplace, and community. The students will learn basic foods and nutrition, clothing and textiles, child care, housing, and personal development. The class will identify individual and family nutrition and wellness needs.

Food and Nutrition (1 credit) **Grades 9-12 Elective**

Through this course, students learn nutrition and wellness practices that enhance both individuals and families. They also learn the proper procedures for safety and sanitation in the kitchen. This course provides practical cooking experience for the students. The students will use food preparation equipment and supplies and learn how to prepare and serve healthy and nutritious foods.

Adv. Foods and Nutrition (1 credit) **Grades 9-12 Elective**

Prerequisite- Foods and Nutrition

Students in this course will use advanced food preparation equipment and supplies with proper procedures. The course explores regional and multi-cultural foods. They will also plan menus, prepare shopping lists, and prepare recipes and meals within specific budgets. The students will also explore the career opportunities available in the food industry.

Child Development (1 credit) **Grades 9-12 Elective**

Students in Child Development class will learn the characteristics of physical, social, emotional, and intellectual development of children. They will select child guidance techniques, toys, equipment, food, and materials that are appropriate for the various development stages of children. The students will observe and work with the preschool students.

Family Living (1 credit) **Grades 9-12 Elective**

Students in this course learn specific skills in building and maintaining healthy interpersonal relationships. Among family members and other members of society. Topics in this course may include goal setting, decision-making, social/dating practices, marriage preparation, parenthood and the function of the family unit. The students will study the various stages of life. Topics related to individual self-development, career development, personal awareness, and preparation for the responsibilities of a family member and wage earner are also integrated within this course.

Clothing/Textiles (1 credit) **Grades 9-12 Elective**

Students in this course will be introduced to and have the opportunity to expand their knowledge and skills in the various aspects of apparel, garment construction, and the textile industry. The student will use the principles and elements of design. They will demonstrate knowledge, skills, and practices required for completing several sewing textile products. They will use a variety of equipment, tools, and supplies that are common in textile construction. The students will also explore the career opportunities in the clothing/textile industry.

Housing/Interior Design (1 credit) **Grades 9-12 Elective**

Students in this course will be introduced to decisions related to housing and home furnishing. The students will use consumer skills to plan, select, arrange, and maintain a home environment. The course will cover recognizing architectural and furniture styles. The student will have the opportunity to use their creativity with the principles and elements of design. The students will explore the career opportunities available in the housing industry.

FOREIGN LANGUAGE

Spanish 1.1 and 1.2 (1 credit per semester) **Grades 9-12 Elective**

This course provides students with a basic understanding of the Spanish language and culture. Emphasis is placed on listening, speaking, reading, and writing skills in the present tense, as well as development of a strong vocabulary. An awareness of various Hispanic countries is also developed. Cultural and grammar understanding will be expended through the use of textbooks, multimedia projects and authentic material. There are two main objectives to the course: To give students the ability to carry on a simple conversation and to provide the students with instruction that teaches a basic understanding of Spanish vocabulary, culture, and grammatical concepts.

Spanish 2.1 and 2.2 (1 credit per semester) **Grades 9-12 Elective**
Prerequisite- Spanish 1.1, 1.2
This course is a continuation of Spanish 1.2 with emphasis on strengthening students' vocabulary, as well as reading, writing, speaking, and listening skills in the present and past tenses. Objectives will be met through the use of text books, projects, and various forms of technology. Continued awareness of Hispanic culture and the various Hispanic countries is also developed. Emphasis is on perfecting pronunciation, mastery of the basic grammatical structures, and increased communicative proficiency. Acquisition of functional vocabulary is expected.

Spanish 3.1 and 3.2 (1 credit per semester) **Grades 9-12 Elective**
Prerequisite- Spanish 2.1, 2.2
This course is a continuation of Spanish 2.2. Emphasis is placed on listening, speaking, reading, and writing skills. Students will review present and past tenses and cultural understanding and additional verb tenses will be expanded through the use of textbooks, multimedia projects, and authentic materials. Students will be expected to expand their vocabulary range to include more sophisticated terms, use advanced language expressions, verb tenses and grammatical concepts.

Spanish 4.1 and 4.2 (1 credit per semester) **Grades 9-12 Elective**
Prerequisite- Spanish 3.1, 3.2
This course is a continuation of Spanish 3.2 with emphasis on strengthening students' vocabulary, as well as reading, writing, speaking, and listening skills. This course incorporates an extensive reading and writing component, with a comprehensive review of the first three years of grammar and final introduction of new advanced grammar. Spanish 4 is designed to prepare academically motivated students to continued their study at the college level and beyond.

INDUSTRIAL ARTS

Beginning Welding (1 credit) **9-12 Elective**
In these courses students gain knowledge and skills in particular aspects of welding. Examples include individual courses in each of the following types of welding: gas metal, gas tungsten, and shielded metal and flux core arc welding.

Intermediate Welding (1 credit) **9-12 Elective**
Prerequisites- Beginning Welding
Welding courses enable students to gain knowledge of the properties, uses, and applications of various metals, skills in various processes used to join and cut metals (such as oxyacetylene, shielded metal, metal inert gas, and tungsten arc processes), and experience in identifying, selecting, and rating appropriate techniques. Welding courses often include instruction in interpreting blueprints or other types of specifications.

Woodworking (1 credit per semester) **9-12 Elective**

Woodworking courses introduce students to the various kinds of woods used in industry and offer experience in using selected woodworking tools. Students design and construct one or more projects and may prepare a bill of materials. Correct and safe use of tools and equipment is emphasized. As students advance, they focus on learning the terminology necessary to use power tools successfully, developing skills to safely use these tools in the workshop and becoming familiar with various kinds of wood-finishing materials. Advanced students typically design a project prepare bills of materials, construct, and finish proposed projects

Intro to Industrial Technology (1 credit) **9-12 Elective**

Industrial Arts courses expose students to the tools and machines that they may encounter in manufacturing-related occupations and enable them to develop the skills they need to use these tools in various applications. Course topics typically include (but are not limited to) drawing and planning, electricity, graphic arts, woodwork, leatherwork, metalwork, plastics, and power technology. These courses typically cover general safety and career exploration as well.

21102 Drafting—General (1 credit) **9-12 Elective**

Drafting—General courses, usually offered as a sequence of courses, introduce students to the technical craft of drawing illustrations to represent and/or analyze design specifications and then refine the skills necessary for this craft. Drafting—General courses use exercises from a variety of applications to provide students with the knowledge and experience to develop the ability to perform freehand sketching, lettering, geometric construction, and multi view projections and to produce various types of drawings (working, detail, assembly, schematic, perspective, and so on). Computer-aided drafting (CAD) systems (if available) are typically introduced and used to fulfill course objectives.

LANGUAGE ARTS

English I (1 credit per semester) **Grade 9 Required**

The main objective of this class is to expose students to the basic necessities needed for effective oral and written communication. The students will study grammar, usage, and mechanics of the English language. Vocabulary, spelling, thinking skills, and writing technique will be a major focus of the course. Students will also read a novel and a play. (Major literary work(s): *To Kill a Mockingbird, Romeo and Juliet*)

English II (1 credit per semester) **Grade 10 Required**

Prerequisite- English I

Semester 1: Introduction to Literature

Introduction to literature includes an analysis of short stories, poetry, essays, biographies and drama. Students will complete a unit on literature of the Holocaust. Basic vocabulary and literary terminology will be another major element of the course. (Major literary work(s): *Arsenic and Old Lace*)

Semester 2: Speech

Students will study the speaking process, including communication, listening, and delivery. Students will improve their existing talents as speakers. Major speeches will include the following: introductory, demonstrative, informative, persuasive, oral interpretation, impromptu, and debate. Students will also evaluate speeches for content and delivery.

English III (1 credit per semester) **Grade 11.1 Required**

Prerequisite- English II

Semester I: Grammar

Grammar focuses on effective sentence, paragraph and essay writing. We will begin with a focus on the parts of speech and turn to sentence construction. Focus will turn to usage and finally to mechanics. The main focus of the course is to improve the students' writing skills and proficiency in the use of language.

Semester 2: American Literature **Grade 11.2 Elective**

The course is a general survey of American literature from colonial times to the present. We will examine how the literature is a product of the historical environment in which it was written. Students will examine a wide range of types of American literature, including poetry, short story, nonfiction, novels and drama. Students will be required to read a canonical American novel and write a formal book report. (Major literary work(s): *The Adventures of Huckleberry Finn, Of Mice and Men, The Great Gatsby, Death of a Salesman,* and *Our Town*)

English IV (1 credit per semester) **Grade 12 Elective**

Prerequisite- English III

Semester 1: English Literature

This course is a general survey of English literature from the Anglo-Saxon period to modern English literature. Students will explore advanced literary techniques such as irony, satire, symbolism, and connotation. We will examine a wide variety of literary genre, including poetry, short story, novels, and drama. The course emphasizes comprehension, discernment, and critical thinking skills. (Major literary work(s): *Macbeth, Frankenstein, The Canterbury Tales,* and *1984*)

Semester 2: Composition

Composition will enhance students' writing abilities across a wide variety of genres. Students will explore essay writing, including narrative, persuasive, comparison and contrast, and process analysis. Creative writing will also be a component of the course, including poetry, short story, and drama. Academic and general vocabulary will also be a focus.

Second Chance Reading (1 credit per semester) **Grade 9 Elective**

Second chance reading is a course designed to focus on reading comprehension skills, vocabulary development, and fluency in both fiction and nonfiction materials. Students increase their reading ability and expand their vocabulary through independent reading, class instruction, and structured study of reading and writing.

Strategic Reading **Grades 10-12 Elective**

Strategic reading is designed to give students the opportunity to improve and to develop their reading comprehension and fluency skills. Vocabulary will be a focus of the course. Students will interact with a variety of reading materials, including both works of fiction and of nonfiction.

Journalism 1.1 and 1.2 (1 credit per semester) **Grade 11-12 Elective**

The focus of journalism is revision, editing, and conciseness of writing. Students will use and further develop their skills with computer-based writing. Students will focus on publishing technique. The major accomplishment of this course is completion of the yearbook, including sales and advertisement. Students will be expected to attend events to take pictures for use in the yearbook.

MATHEMATICS

TIERED Algebra 1.1 & 1.2 or 2.1 & 2.2 (1 credit per semester)

Prerequisites: Taken concurrently with Algebra I

Description: Tiered Algebra is for the student who needs support with Algebra I skills and concepts (e.g., number sense, operations with integers, balancing equations, multiplying binomials). The student learns through a variety of strategies, guided by the Transition to Algebra curriculum. These strategies and techniques improve the student's abilities to think logically, problem solve, and provides concrete connections to their Algebra I course.

Algebra 1.1 (1 credit) **Grade 9 Required**

This course develops mathematical problem solving and reasoning abilities. Students will solve rich mathematical and real-world problems. Topics covered include: real number computation, simplifying expressions, solving equations and inequalities, relations, functions and their graphs, and slope.

Algebra 1.2 (1 credit) **Grade 9 Required**

Prerequisites – Algebra 1.1

This course will expand on Algebra 1.1 and students will focus on justifying their thinking and critiquing the reasoning of others to help them become skillful thinkers and problem solvers. Topics covered include: solving systems of equations and inequalities, properties of exponents, polynomials, and factoring.

Geometry 1.1 (1 credit) **Grades 9-12 Elective**
Prerequisites – Algebra 1
This course provides students with a chance to enhance their visual, spatial, logical, drawing, and verbal skills in the study of the properties and relationships in Euclidean geometry. Topics covered include: points, lines, planes, constructions, reasoning and proof, parallel and perpendicular lines, and congruent triangles.

Geometry 1.2 (1 credit) **Grades 9-12 Elective**
Prerequisites Algebra 1, Geometry 1.1
This course will expand on Geometry 1.1 and use visual models to encourage students to clarify their thinking, organize and analyze information, and think critically. Topics covered include: relationships within triangles, polygons and quadrilaterals, similarity, right triangles and trigonometry, area, surface area, and volume.

Technical Math 1.1 (1 credit) **Grades 10-12 Elective**
Prerequisites – Algebra 1
This course aims to emphasize the relevance of mathematics to everyday life. Students will review basic mathematics skills and learn how they apply to consumer and career situations. Topics covered include: calculating whole number, decimal, and fraction computation, problem solving and applying computational skills in real-life situations, and working with introductory statistics and using tables, graphs, charts, and other data displays.

Technical Math 1.2 (1 credit) **Grades 10-12 Elective**
Prerequisites – Algebra 1, Technical Math 1.1
This course will expand on Technical Math 1.1 and show students the usefulness and importance of mathematical skills and logical reasoning in surviving in the real world. Topics covered include: converting measurements, ratio and proportion, percent, and probability.

Algebra 2.1 (1 credit) **Grades 10-12 Elective**
Prerequisites – Algebra 1, Geometry
This course strengthens mathematical problem solving and reasoning abilities. Students will continue to solve multi-layered mathematical and real-world problems. Topics covered include: expressions, equations, inequalities, linear functions, quadratic functions and graphs.

Algebra 2.1 (1 credit) **Grades 10-12 Elective**
Prerequisites - Algebra 1, Geometry, Algebra 2.1
This course will expand on Algebra 2.1 and students will reason abstractly and quantitatively by breaking down a problem and analyzing options for modeling or representing the problem mathematically. Topics covered include: quadratic equations, polynomial functions, radical functions, and rational exponents.

Algebra 3 (1 credit per semester) **Grades 11-12 Elective**
Prerequisites- Algebra 1, Geometry, Algebra 2
This course is designed to prepare students for college mathematics. All of the topics within the syllabus are standard pre-calculus topics which include: solving equations and inequalities, systems of equations and inequalities, matrices and determinants, using and understanding a wide variety of functions.

Probability and Statistics (1 credit) **Grades 11-12 Elective**
Prerequisites- Algebra 1, Algebra 2,
This course is designed for the student who wishes to examine real-life problems with real data through elementary probability and statistics. This course is introductory in nature. The topics of probability include elementary probability theorems, compound events, conditional probability, counting methods, and the normal distribution. Statistical topics include organizing data graphically and analysis of data numerically. Students will also describe the relationship between two variables.

Pre-Calculus (1 credit) **Grades 11-12 Elective**
Prerequisites- Geometry 1, and Algebra 2
The study of pre-calculus begins with a review of concepts covered in Algebra 2. Topics in this course include operations with rational and irrational expressions, factoring of rational expressions, in-depth study of linear equations and inequalities, quadratic equations, solving systems of linear and quadratic equations, graphing of constant, linear, and quadratic equations, and properties of higher degree equations.

Trigonometry/Analytic Geometry (1 credit) **Grades 11-12 Elective**
Prerequisites- Geometry 1, Algebra 2,
This course covers topics of both Trigonometry and Analytic Geometry and prepares students for eventual work in Calculus. Topics include the study of right trigonometric and circular functions, inverses and graphs, trigonometric identities and equations, , solutions of right and oblique triangles, complex numbers, numerical tables, vectors, the polar coordinate system, equations and graphs of conic sections, rotations and transformations, and parametric equations.

Calculus 1.1 (1 credit) **Grade 12 Elective**
Prerequisites- Trig/ Analytic Geometry, Pre-Calculus
Due to class size constraints this class may only be offered at Logan-Magnolia
This course is an introduction the study of basic differential and integral calculus and the applications of each. Graphing calculators, mathematics software, and internet resources will be used in this study. This course is specifically designed to help a future college student to successfully complete the Calculus requirements of his/her field of study.

Calculus 1.2 (1 credit) **Grade 12 Elective**
Prerequisites- Trig/ Adv. Algebra, Trig/ Analytic Geometry, Pre-Calculus, Calculus 1.1
Due to class size constraints this class may only be offered at Logan-Magnolia
This course continues on where Calculus 1.1 left off and is the study of basic differential and integral calculus and the applications of each. Graphing calculators, mathematics software, and internet resources will be used in this study. This course is specifically designed to help a future college student to successfully complete the Calculus requirements of his/her field of study.

MUSIC

Instrumental Music (1 credit per Semester) **Grades 9-12 Elective**

This course is the study of music through performance on a musical instrument. Content includes performance in a multitude of genres including concert, marching, and pep band. Lessons and after school concerts are a required part of the curriculum as well as occasional written assignments focusing on the music, history, and theory of music studied. Extra-curricular opportunities exist for those looking for further study including jazz band, solo festivals, and honor festivals.

Vocal Music (1 credit per Semester) **Grades 9-12 Elective**

This course is the study of music through performance of the voice/singing. Content includes performance in a multitude of genres including pop, secular, sacred, Broadway, and solo literature. Lessons and after school concerts are a required part of the curriculum as well as occasional written assignments focusing on the music, history, and theory of music studied. Extra-curricular opportunities exist for those looking for further study including solo and honor festivals.

Music Theory (1 credit) **Grades 9-12 Elective**

This course is a non-performing music class and will focus on the rules of composing music including rhythms, pitch, chord structure, and harmony. Students will learn how music is put together, why notes and harmonies sound the way they do, analyze music, and compose their own musical excerpts. No prerequisite is required. Course may be repeated for further development. Recommended for students interested in music as a career.

Musical Theater (1 credit) **Grades 9-12 Elective**

This course is a non-performing music class and will focus on the Broadway Musical. Students will study early musical theater including a brief introduction of opera. The focus will be on how a musical is produced including stage tech and the history of various musicals and performers. No prerequisite is required. Recommended for students interested in music or drama as a career.

Music Appreciation (1 credit) **Grades 9-12 Elective**

This course is a non-performing music class and will focus on the general history of Western music from Gregorian Chant circa 1400 AD to current musical trends including popular music. Study of the use of instruments, composers, and musical styles will be included. No prerequisite is required. Recommended for students interested in music as a career.

Music Production (1 credit) **Grades 9-12 Elective**

This course is a non-performing music class and will focus on the creation of music from idea to concert, music consumership, music technology, and the music industry. Class will include a project on creating music videos and/or creating music as background for a movie scene. No prerequisite is required.

PHYSICAL EDUCATION

P.E. 9/10 (1 credit) **Grade 9 or 10 Elective**

This course provides freshman and sophomore students with knowledge, experience, and an opportunity to develop skills in all of the following areas: team sports, individual/dual sports, recreational sports, and fitness/conditioning activities.

Fitness (1 credit) **Grades 9-10 Elective**

This course provides activities that include adaption to our new fitness app called PLT4M which allows for students to train at their level. This includes intro to weight training, advanced weight training, in season athletic training, off season athletic training, fit for life PE activities, plyometrics, personal max testing with leaderboards locally and nationally, student accountability for tracking their program and finding a lifestyle for all students to stay fit in teen years and throughout their lifetime. Other activities outside of this program would include occasional team sport, wii fit activities, agility/plyo gym sessions, student choice fit activities, nutritional logging and goal setting bi weekly.

Team Sports (1 credit) **Grades 9-12 Elective**

Team sports provide students with knowledge, experience, and an opportunity to develop skills in more than one team sport.

Weight Training (1 credit) **Grades 9-12 Elective**

This course helps students develop knowledge and skills with free weights and universal stations while emphasizing safety and proper positioning.

SCIENCE

Physical/Earth Science 1.1 (1 credit) **Grade 9 Required**

This first part of an introductory course gives students enough sampling of the physical sciences to enable them to understand and solve many of the problems they face or will face in the scientifically-oriented world in which they live. Students will obtain an understanding of the atom, periodic table patterns, classification of matter, motion, force, energy, work, simple machines, environmental concepts, careers in physical sciences, and how each of these affects daily life. Hands-on activities, experiments, and demonstrations will occur frequently within this class.

Physical/Earth Science 1.2 (1 credit) **Grade 9 Required**

Prerequisites- Physical/Earth Science 1.1

Students expand upon knowledge learned and used in the first part of this course, in the second part of this introductory course. Students continue to sample the physical sciences to enable them to understand and solve many of the problems they face or will face in the scientifically oriented world in which they live. Students will obtain an understanding of the atom, periodic table patterns, classification of matter, motion, force, energy, work, simple machines, environmental concepts, careers in physical sciences, and how each of these affects daily life. Hands-on activities, experiments, and demonstrations will occur frequently within this class.

Biology 1.1 (1 credit) **Grade 10 Elective**

In this class, basic biological concepts will be introduced and studied. The concepts will include photosynthesis and respiration, composition of matter, environmental biology, cell structure and function, genetics, taxonomy, and careers in biology. Laboratory work will reinforce many of the concepts presented.

Biology 1.2 (1 credit) **Grade 10 Elective**

Prerequisites- Biology 1.1

In this class, basic biological concepts learned in the first course will be expanded upon and new concepts will be learned. The concepts will include photosynthesis and respiration, composition of matter, environmental biology, cell structure and function, genetics, taxonomy, and careers in biology. Laboratory work will be used to reinforce many of the concepts presented.

Anatomy /Physiology 1.1 (1 credit) **Grades 11-12 Elective**

Prerequisites- Biology

This course will be an introduction to the study of the anatomy and physiology of the human body. Students will study the organs and their functions that make up the following systems of the body: skeletal system, muscular system, nervous system, digestive system, respiratory system, circulatory system, endocrine system, reproductive system, and careers in anatomy and physiology based upon these systems.

Anatomy /Physiology 1.2 (1 credit) **Grades 11-12 Elective**

Prerequisites- Biology 1, Anat/Phys 1.1

Students will continue their study of the anatomy and physiology of the human body. Students will study the organs and their functions that make up the following systems of the body: skeletal system, muscular system, nervous system, digestive system, respiratory system, circulatory system, endocrine system, reproductive system, and careers in anatomy and physiology based upon these systems.

Unified Science 1.1 (1 credit) **Grades 10-12 Elective**

This course highlights the principles of several scientific specialties. In this first integrated science course, students will study organized, thematic units, which will include scientific discoveries, forensic science, alternative energy, genetics, earth sciences, and human interactions with the earth.

Unified Science 1.2 (1 credit) **Grades 10-12 Elective**

Prerequisite- Unified Science 1.1

This second semester expands upon the principles of several scientific specialties. In this first integrated science course, students will study organized, thematic units which will include scientific discoveries, forensic science, alternative energy, genetics, earth sciences, and human interactions with the earth.

Chemistry 1.1 (1 credit) **Grades 11-12 Elective**

Prerequisites- Physical Science, Algebra 1

This semester will be an introduction to Chemistry and the study of the structure of matter and the laws and processes involved in putting atoms together in molecules and compounds.

Chemistry 1.2 (1 credit) **Grades 11-12 Elective**

Prerequisites- Physical Science, Algebra 1, Chemistry 1.1

Students will continue their study of the structure of matter and the laws and processes involved in putting atoms together in molecules and compounds. After studying the theory involved, they will perform various laboratory experiments and complete various exercises and projects.

Physics 1.1 (1 credit) **Grades 11-12 Elective**

Prerequisites- Physical Science, Algebra 1, Algebra 2

Physics is the study of matter and energy. During this course, the following topics are introduced: straight-line and circular motion, machines, heat, light and sound waves, electricity, and the structure of the atom. In studying the above topics, work in the lab is paralleled with the particular topic being studied.

Physics 1.2 (1 credit) **Grades 11-12 Elective**

Prerequisites- Physical Science, Algebra 1, Algebra 2, Physics 1.1

During this course, students will continue to explore the following concepts of matter and energy: straight-line and circular motion, machines, heat, light and sound waves, electricity, and the structure of the atom. Labs will be aligned with topics of study.

SOCIAL SCIENCE

World History 1.1 and 1.2 (1 credit per semester) **Grades 9-10 Elective**

World history is a survey course of the history of Asia, Europe and Africa. We will begin by discussing the growth of civilization (Egypt, Sumer, China). We will turn toward the major empires of Rome and Greece. The Middle Ages, Renaissance and Reformation in Europe will be a covered. Our study will end with World War II. We will pay specific attention to historical trends; cultural developments; and political, economic, social, religious, and military developments.

American History 1.1 and 1.2 (1 credit per semester) **Grade 10 Required**

This course examines the history of the United States from colonial times. The first semester will end with the Civil War. Our study will end with a brief study of the history of the 1980's. We will focus on political, military, scientific, and social developments that played major roles in the history of the United States.

American Government (1 credit) **Grades 11-12 Required**

This course is an overview of governmental processes within the United States. Our study will include a comparison of governmental forms, an analysis of the history of governance in the U.S., and an in-depth look into the function of each branch and division within the federal government. Students will build knowledge and skills that will help them become active, knowledgeable, and involved citizens.

Economics (1 credit) **Grades 11-12 Required**

Economics is a broad overview of basic microeconomic and macroeconomic concepts. The course begins with an overview of what economics is (i.e. scarcity, opportunity cost, economic systems, and business organizations). Our focus will then turn to the concepts of supply and demand and competitive structures. We will close the semester by applying these principles to institutions and policies within the U.S. economy and the broader world economy.

World Geography (1 credit) **Grades 9-12 Elective**

World geography is a general survey of geographical aspects of the entire world. Beyond locating places and using maps, our major focus will be on culture, fauna and flora, economics, government, and population. We will begin our study by developing general discipline knowledge of geography. We will then turn to a regional approach: beginning with North and South America; moving to Europe, Asia, and Africa, and ending with the Pacific world.

Behavioral Science (1 credit) **Grades 11-12 Elective**

This course is an overview of psychology and sociology. Students will examine a wide variety of psychological issues, including consciousness, memory, learning, language, development, and motivation. We will end our study by examining how psychology and sociology are related studies. Students will participate in a variety of hands-on labs and observations.

Contemporary Issues (1 credit) **Grades 10-12 Elective**

Students will examine social, political, and economic issues facing the world today. Our focus will be on current events and their historical causes. The course will be a discussion/debate format in which participation in the classroom will be a major component of student assessment.

State and Local Government **Grades 11-12 Elective**

This course focuses on government at the various levels below federal government. We will begin by examining the elements of state government, including a specific focus on the government of Iowa. We will then direct our attention to how states decide to delve out power to local levels, including counties, municipalities, and special districts. We will study current issues in state and local government with specific emphasis on the towns within West Harrison, Harrison and Monona counties, and the school district itself.

OTHER

Driver's Education (1 credit) **Grades 9-12 Elective**

Driver's education is designed to give each student the experience and knowledge necessary to be a safe driver on our streets and highways. Each student is required to complete 30 hours of classroom instruction dealing in such areas as: alcohol and drugs, the laws of nature and the motor vehicle, city driving tactics, freeway driving, highway driving, parking the car, stopping the car, emergency situation, traffic regulations, how the automobile runs and maintenance, buying and insuring a car, and an introduction to the controls of a car. This course also requires 6 hours of behind-the-wheel experience where each phase of driving studied in the classroom is put into practical experience.

First Aid/ Safety (1 credit) **Grades 9-12 Elective**

This course provides specialized instruction in first aid techniques and general safety procedures and behaviors. These courses may include such topics as an overview of community agencies and hotlines providing emergency care and information and opportunities on how to become certified in first aid and CPR.

Health (1 credit) **Required**

Students learn about various areas of health and the skills needed to make decisions that will be directly related to the student, school, and the community. The areas of health covered are: personal health, food and nutrition, environmental health, consumer health, safety and survival skills, family health, substance abuse and non-use, emotional and social health, health resources, and prevention and control of disease. Students are encouraged to assume responsibility now for their own health. It is emphasized that the choices they make today will affect their health in the future.

Junior EMS 1.1 (0.5 Credit) **Grades 11-12 Elective**

Prerequisites- Minimum GPA 2.0

The first semester will include emergency procedures and protocols as well as attending a fire/rescue meeting with the senior members. Basic first aid along with vitals signs are covered. Students will be CPR certified. Students will be a part of fundraisers and educational lessons conducted by the Mondamin Fire and Rescue Department and senior members.

Junior EMS 1.2 (0.5 Credit) **Grades 11-12 Elective**

Prerequisites- Minimum GPA 2.0

The second semester will include c-collar, backboard, air splint, and stair chair training. Students will conduct search and rescue training within the fire hall. Fire extinguisher and fire hose training will be done. A final emergency scenario will be conducted between Jr. EMS and senior members. Students will be a part of fundraisers and educational lessons conducted by the Mondamin Fire and Rescue Department and senior members.

Teacher/Office/Kitchen/Library Assistant (0.5 credit) **Grades 10-12 Elective**

This is a program where students assist teachers or office/kitchen personnel for credit. They must show up on time, complete all tasks assigned, and complete a final project in order to earn credit for this class. Students will be evaluated by their supervisor each quarter and this will figure into their final grade.

College Preparatory Rhetoric (1 credit) **Grades 11-12 Elective**

This course is designed to prepare students for college courses. Students will reinforce their logic and critical thinking skills. Students will work on study skills, time management skills, and organizational skills. ACT test preparation will be a major component of the course. Students will also examine some general reading strategies and vocabulary.

COURSES AT MISSOURI VALLEY HIGH SCHOOL

Health Science Classes **(Earn College Credit through Iowa Western)**

If you are enrolled in these classes, you will become a member of HOSA (Health Occupations Students of America. This is a professional organization geared towards those interested in future healthcare careers (doctors, nurses, physical therapists, respiratory therapists, x-ray technicians, etc.) You will have the opportunity to compete at district, state, and national levels in events and competitions offered by this organization. There are also many labs, hands-on activities, and field trips offered through these classes. Additionally, you can also complete CNA certification, if you choose to do so which can give you the opportunity to work in specific areas of healthcare in high school and college.

HEALTH SCIENCE ACADEMY

The Health Science Academy program will provide students with transferable skills and technical experience to meet the needs of the rapidly expanding health care industry. Students are actively involved in HOSA: Future Health Professionals and will represent themselves and the school through competition of knowledge acquired in the classroom at the state and national levels. In order to be considered for this program, students will need to complete an application and be accepted. Limited seats are available.

Health Science I – First Aid/CPR (1 credit) **Grade 11-12 Elective**

Pr**erequisite- Instructor approval**

Students will have a basic introduction to health careers, health care systems, professionalism, and legal and ethical responsibilities of the health care worker. The communication process will be introduced as well as an understanding of patients' needs and behaviors. Students will learn First Aid/CPR which prepares the students with lifesaving, hands-on instruction in many emergency situations.

Health Science II – CNA (1 credit) **Grade 12 Elective**

Prerequisite- Health Science I

Nurse Aide is the 75-hour certified nurse aide (CNA) course. It allows students to meet the training requirements of the Omnibus Budget Reconciliation Act of 1987 (OBRA) for nurse aides working in nursing facilities and skilled nursing facilities. Emphasis in the course is on achieving a basic level of knowledge and demonstrating skills to provide safe and effective resident care. The clinical portion of the course may require students to attend in the evening or on the weekend. Students will be required to have a physical exam, background check, and TB test completed prior to the start of the course.

Medical Terminology (1 credit) **Grade 12 Elective IWCC College Credit**

Prerequisite- Health Science I, First Aid/CPR, instructor permission, A&P(recommended)

Medical Terminology is the language of health care and provides transferable skills for the student regardless of the health career they pursue. This course gives the student a working knowledge of the roots, prefixes and suffixes or commonly used medical terms related to anatomy, physiology, pathology, diagnostics, and treatments. Emphasis is placed on the correct spelling and pronunciation of the vocabulary.

Survey of Anatomy/Allied Health (1 Credit) **Grade 12 Elective IWCC College Credit**

Prerequisite- Medical Terminology

Survey of Anatomy/Allied Health is a beginning-level study of the structure, organization, and functions of the major organ systems of the human body.

Health Science III (1 Credit) **Grade 12 Elective**

Prerequisite- Health Science I, First Aid/CPR, instructor permission, A&P (recommended)

This course provides students with work experience in the health care industry. Goals are set cooperatively by the student, teacher, and employer. This course will also include classroom activities involving further study of the field and discussions of student experiences in the workplace.

Health Science IV (1 credit) **Grade 12 Elective**

Prerequisite: Health Science I, First Aid/CPR, instructor permission, A&P(recommended)

This course is a continuation of Health Science III. It continues to provide students with work experience in the health care industry.

COURSES AT LOGAN-MAGNOLIA High SCHOOL

COMPUTER SCIENCE

Introduction to Computer Science: Spring (1 credit) Grades 9-12 Elective
Designed to be the first computer science course for students who have never programmed before, ICS is the starting point for the PLTW Computer Science program. Students work in teams to create simple apps for mobile devices using MIT App Inventor®. Students explore the impact of computing in society and the application of computing across career paths and build skills and awareness in digital citizenship and cybersecurity. Students model, simulate, and analyze data about themselves and their interests. They also transfer the understanding of programming gained in App Inventor to learn introductory elements of text-based programming in Python® to create strategy games. The course aligns with the Computer Science Teachers Association (CSTA) 3A standards.

Computer Science & Software Engineering (**1 credit per semester) Grades 10-12 Elective**
Prerequisites – Introduction to Computer Science (B- or higher) or instructor approval.
CSE implements the College Board's CS Principles framework. Using Python® as a primary tool and incorporating multiple platforms and languages for computation, this course aims to develop computational thinking, generate excitement about career paths that utilize computing, and introduce professional tools that foster creativity and collaboration. CSE helps students develop programming expertise and explore the workings of the Internet. Projects and problems include app development, visualization of data, cybersecurity, and simulation. The course aligns with CSTA 3B standards.

HEALTH

Health Science I: First Aid/CPR (1 credit) Grade 11-12 Elective
Prerequisite- instructor approval
Student will have a basic introduction to the history of health care, health care systems, professionalism, and legal and ethical responsibilities of the health care worker. The communication process will be introduced as well as understanding of patients' needs and behaviors. Students will learn First Aid/CPR, which prepares the students with lifesaving, hands-on instruction in many emergency situations. Emphasis centers on real life responses and what to do in the first five minutes of an emergency.

HEALTH SCIENCE II – CNA (1 credit) Grades 11-12 Elective
Prerequisite: Health Science I

This course is designed to teach students the skills necessary to become a qualified Nursing Assistant. Emphasis is on learners achieving a basic level of knowledge and demonstrating skills to provide safe, effective resident care. The students time will be divided between classroom instruction, laboratory time, and supervised experience in the nursing home setting.

Additional time is required outside of class for clinical experience. This may be in the evening or on weekends.

INDUSTRIAL TECHNOLOGY

3D Computer Aided Drafting (1 credit) **Grades 10-12 Elective**
Prerequisite: Design Drafting or Drafting
This class will focus on the design and building of 3D parts. 3D objects will be created using 2D graphics. Students will also build and utilize a library for 3d parts.

Manufacturing Systems (1 credit) **Grade 9-12 Elective**
This one semester course is designed to introduce students to modern manufacturing processes. Students will experiment with and learn to safely use the many tools, materials and processes currently used in industry. Areas that will be investigated will include woodworking, metalworking, construction, arc welding, wire welding, Oxy/Ace torching, metal casting, mass production and drafting and design. This course is a prerequisite to enroll in all other industrial technology courses.

Manufacturing Systems II (1 credit) **Grade 10-12 Elective**
Prerequisite- Manufacturing Systems I
One semester course that is an extension of MAN I.

ENGLISH

AP Language and Composition (1 credit per semester) **Grade 11-12 Elective**
Prerequisite: Eng 10 (B- or higher)
This course is a two-semester course designed to uphold the rigor and relevance of a College Language and Composition course. The goal for the end of the course is for each student to take the AP Language and Composition exam to earn valuable college credit. The course is organized around six fundamental concepts. The six concepts are centered around topics of rhetoric and argument. As many of the students taking this course will be taking it in place of their junior year American literature and composition course, many of the choices of readings will also coincide with those that are typical of an American Literature class. While all reading selections for the class will not necessarily be American, many will be and the writings and discussions will take on an American air. Each unit requires students to acquire and use rich vocabulary, to use standard English grammar, and to understand the importance of diction and syntax in an author's style. Therefore, students are expected to develop their grammar and usage skills through reading, discussion, and writing assignments. The course is structured with texts to familiarize students with opportunities for critical reading and for reading examples of canonical American literature. All readings will be centered around a concept -- not a time period, not a theme, not an author, not an era or philosophical construct -- they are centered around a concept. Discussions and writings will connect those writings, and their different times, themes, authors, eras and philosophies together to form a synthesized frame of reference and a coherent thought, idea and conclusion. Writing is an integral part of this class;

at least 50% of your time will be spent sharing your thoughts via the written word. You will write informally, formally -- in narrative, expository, analytical and argumentative styles. You will write as if you're writing for your peers. You will write as if you are writing for your teacher. You will write as if you are writing for another audience. You will write as if you are writing for the AP exam readers. You will write! Sometimes your writing will be on-demand, short-term, one-draft essays. Sometimes you will write reflections or mini-analyses of something you see or read. Sometimes you will write a longer-term paper that will take days, involve teacher and peer review and editing, revision, and final drafting. This is not a class where each student can get away with a five-paragraph-theme format -- rhetorical analysis does not lend itself to a strict format, much less five paragraphs. As we study rhetoric and rhetorical analysis; the canons of rhetoric: invention, arrangement, style, memory, delivery; the rhetorical diagram: exigency, audience, purpose, ethos, pathos, logos; style; syntax; structure; organization; diction; figurative language -- everything that must be considered when an author puts pen to paper and shares his opinions with the world. This is analysis, folks. We dig deeply here.

MATH

AP Calculus (1 credit per semester) **Grades 11-12 Elective**
Prerequisite: Geometry, Pre Calc/Trig (C or higher)
Following the College Board's suggest curriculum designed to parallel college level calculus, AP Calculus AB provides students with an intuitive understanding of concepts of calculus and experiences with its methods and application. This course introduces calculus and includes the following topics: elementary functions; properties of functions and their graphs; limits and continuity; differential calculus (including definition of derivative formulas, theorems about derivative, geometric application, optimization problems, and rate-of-change problems); and the integral calculus (including antiderivatives and the definite integral). At the conclusion of the course a AP Final Exam will be given and is strongly encouraged but not required.

POSTSECONDARY ENROLLMENT OPTIONS (PSEO)
This program allows 11th and 12th grade students as well as 9th and 10th grade TAG students to enroll in college courses. Successful completion of the course also generates high school credit and applies towards district subject area requirements. These courses are provided online and students interested in taking them need to speak to the high school guidance counselor and fill out an application form.

Students may only drop or change PSEO classes the first three days of the semester preceding them. They may not withdraw later.

If the student successfully completes the course, the school district pays the eligible postsecondary institution for the cost of tuition and books ($250). If a student fails to complete the course with a passing grade, the student and/or their parent/guardian will be required to pay the cost.

Following is a list of online courses that may be taken through the PSEO program that will likely transfer to almost any four-year college as general education requirements. Other classes may be taken in order to meet student interests, however their first two courses need to be two of the following general education classes.

ANT 105: Cultural Anthropology
This course is a cross-cultural study of the variety of human adaptations to physical, social and cultural environments, primarily in terms of subsistence, technology, social groupings, government, economic organization, religion and aesthetics.

ART 101: Art Appreciation
This course explores the creative process emphasizing art as a visual form of communication. It presents useful criteria for evaluation and enjoyment of art through the development of visual vocabulary and knowledge of art processes, as well as art in a historical context.

ART 203: Art History
This course is a survey of the visual arts from prehistoric times through the Middle Ages with an emphasis on the relationship between art and social, economic, religious and geographical conditions. It discusses the historical context of contemporary forms of expression when relevant.

BUS 102: Introduction to Business
This course provides a broad overview of business including internal and external functions. Topics include economics, marketing, entrepreneurship, and management as well as related domestic and international business issues.

BUS 185: Business Law I
This course is an introduction to laws and court procedures relating to business. It emphasizes the ethical, constitutional and regulatory aspects of business. The course concludes with an in-depth study of the laws governing the formation and enforcement of contracts.

ENG 105: English Composition I
This course is an exploration of writing as a process with attention to audience, purpose and patterns of exposition.

ENG 106: English Composition II
Prerequisite- ENG 105
This course is a continuation of ENG 105 with emphasis on developing more complex, sophisticated forms of exposition. It includes a research paper requiring library research, documentation, and bibliography.

FIN 121: Personal Finance
This course is an overview of personal financial planning with emphasis in the areas of personal

money management, budgeting, taxes, investments, and risk. This course also covers the process of buying/leasing autos, and purchasing a home. Students are introduced to issues relating to credit management and insurance products as well.

GEO 121: World Regional Geography
This course is a geographic survey of nations and continents with an emphasis on important physical characteristics of the major regions of the world. Attention is devoted to demographic, economic, political, and cultural development and the consequent contemporary relationship with each other.

HIS 110: Western Civ: Ancient to Early Modern
This course traces the Western tradition from Antiquity through the seventeenth century. Emphasizes the process of change and the dynamics and interrelationships of events of the major societies, governance, and cultures of the Ancient, Medieval, Renaissance and beginnings of early modern times.

HIS 111: Western Civ: Early Modern to Present
This course surveys Western history from the age of Enlightenment in the Eighteenth century to present day.

HIS 151: US History to 1877
This course is an introduction to the basic people, issues, movements, and events which shaped the American experience from Pre-Columbian times to the Civil War and Reconstruction.

HIS 152: US History Since 1877
Surveys the basic forces and events that shaped American life from the Reconstruction era to the present.

HUM-101: Introduction to the Humanities
This course explores the influence of philosophy, literature, drama, and the fine arts upon ancient and modern cultures, including the impact of other cultures upon America's approach to living.

LIT-101: Introduction to Literature
Prerequisite- ENG 105
An introduction to the study of short fiction, poetry, and drama.

MAT 121: College Algebra
Prerequisite- Algebra 2
This course addresses linear functions and inequalities, quadratics, conics, polynomials and rational functions, exponential and logarithmic functions, linear systems, matrices and determinants. Additional topics may include sequences, series, permutations, combinations, and probability.

MUS-100: Music Appreciation
A general course designed to make the student more aware of musical form, media, genres, musical periods, and the essential role of music in life and culture. Emphasizes the development of tools for intelligent listening and appreciation.

PHI-101: Introduction to Philosophy
This course introduces a broad spectrum of philosophical questions and perspectives, with an emphasis on the systematic questioning of basic assumptions about reality, knowledge, meaning, and values.

PHI-105: Introduction to Ethics
This course introduces fundamental theories of moral behavior and examines important concepts and arguments used in moral reasoning, and applies ethical theories to contemporary personal and social issues.

POL-111: American National Government
This course is an introduction to the American system of government, including the U.S. Constitution. Basic philosophies, general principles of federalism, civil liberties, public opinion, political parties and interest groups, the electoral process, and the structure and function of national government will be covered.

PSY-111: Introduction to Psychology
This course introduces students to the scientific study of mental processes and behavior with emphasis on the nervous system, learning and memory, cognition, sensation and perception, motivation and emotion, personality, intelligence, stress, psychological disorders and therapy, and social influence. This course explains the roles of theory and empirical evidence in describing, and predicting behavior. Students apply critical thinking in relation to research methods and ethics in the field of psychology.

PSY-121: Developmental Psychology
This course examines the process of human development, covering the life span of the individual. It includes integration of the basic concepts and principles of physical, cognitive, social, and psychosocial development. Topic areas include: genetics, prenatal development, infancy, childhood, adolescence, adulthood, and death. Prerequisite: PSY-111

SOC-110: Introduction to Sociology
This course is a survey of the fundamental concepts used in the study of human social interaction with emphasis on group aspects of social behavior. Subject areas include research methods, theory, culture and social structure, socialization, groups and formal organizations, deviance and social control, stratification, race and ethnicity (including whiteness), major social institutions, and social change.

SOC-120: Marriage and Family

This course examines the family as a basic institution. Special focus is given to the marital life cycle: courtship, dating, marriage, the childbearing years, parent-child relationships and marriage during the middle and older years. This course examines the implication of marital dissolution and the family, as they exist under modern social conditions. Focus is given to contemporary variations of the family commonly referred to as intimate relationships (co-habitation, hooking up and gay marriage). This course is a required component for USD, BCU and BVU Social Work transfer programs and the WITCC Addictions Counseling Associate of Arts degree.

SPC-112: Public Speaking
The course combines theory of speech communication with public speech performance skills. Emphasis is on speech delivery, preparation, organization, support, and audience analysis. Practice of skills is through presentation and exercise.