Heppner High School Course Catalog

FA=Fine Art, SC=Science, MA=Math, LA=Language Arts, PE=Physical Education, SS=Social Science, EL=Elective, CE=Career Education

Industry and Engineering

FA **Introduction to Engineering** Students work with modular, computer based systems in the areas of Communication, Construction, Manufacturing and Transportation. These include woodworking, electronics, graphic design, structure engineering, problem solving, manufacturing, research and design, computer aided drafting, sketching, aerospace, plastics and more. Students use a variety of materials and tools to produce models and projects. Emphasis is on the safe use of tools and equipment. Students will work in the classroom, technology lab and woodshop.

FA **Communication Technology** An introduction to Computer Aided Drafting using CAD software, including design set up, file management, entity creation and manipulation. Projects will include orthographic projection, sections, dimensioning, and isometric drawings**.** This course will also cover photography, laser and fiber optics, video production, graphic arts and electronic communication. **College Credit Available**.

FA **Computer Graphics (alternates with Robotics)** This course will cover many areas of graphics communication. Some topics are computer based while others use various graphics equipment. Topics include vinyl sign making, screen printing, computer aided drafting, 3-D modeling, architecture, photography, video production, laser engraving and graphic arts.

FA **Computer Programing (CS160) Using Scratch Programing See Mr. Fowler College Credit Available**.

FA **Computer Science 120: Concepts of Computing;** A survey of the general concepts of computers and their applications. Concepts include computer systems, system and applications software, data organization and management, and computers in society. Specific applications with hands-on projects will include: Word Processing, Spreadsheets, Data Management, Graphics, Presentations, and Web Design. **College Credit Available**.

FA **Woods Manufacturing Technology (Alternates with Metals Manufacturing):** This course is for the student who would like to learn more about woodworking and manufacturing. The basic skills from previous classes will be expanded through teacher assigned projects, class manufacturing projects, and individual projects. Woodworking students learn to use a large variety of power tools and equipment. Measurement, project design, finishes, abrasives, wood joint construction, and manufacturing processes will be covered.

FA **Metals Manufacturing Technology (Alternates with Woods Manufacturing)** A basic course in welding using oxyacetylene torches and electric arc welding equipment emphasizing the development of skills and knowledge to safely and effectively accomplish practical repairs and fabrication in agricultural & manufacturing applications. Also included are milling and lathe operations. Computer controlled equipment will be used. Students will use a variety of computer software. **College Credit Available**.

FA **Robotics Technology (Alternates with Computer Graphics)** This course will cover the basics of VEX robotics. Design, construction and programming of various robots will be covered. DC circuitry will include power sources, resistors, LEDs, variable resistors, comparators, and motors. Students will learn how to use a multimeter, set a circuit up on a solderless breadboard, solder wiring and circuits, use small hand tools and power tools. Students will have the opportunity to compete in robotic competitions.

FA **Advanced Technology Projects** This is a class for students with two or more years of technology education experience. Course content will vary based on students experience and area of interest. Students may work on projects where they research, design, produce, market and sell a product. Time will be provided for students to work on projects of their own choosing.

FA **CTE Tech Leadership** This course will provide students the opportunity to become deeply involved in the National Technology Student Association. Students will develop an understanding of the principles and procedures of this organization and apply this knowledge to community service activities, career development events, marketing, record keeping and other business related principles. Students must be a member of the Heppner TSA Chapter, compete in at least 2 Career Development Events and will set goals to compete at TSA Competitions.

FA **Intro to Industrial Systems Technology** Students from Morrow County Schools will be attending this course at the BMCC Boardman Workforce Training Center. The course is taught by Industrial Systems Technology Post-Secondary partner. **See Mr. Fowler College Credit Course**

FA **Electrical Fundamentals** Students from Morrow County Schools will be attending this course at the BMCC Boardman Workforce Training Center. The course is taught by Industrial Systems Technology Post-Secondary partner. **See Mr. Fowler College Credit Course**

Agricultural Science

FA **Intro to Agriculture (Ag I):** A large variety of topics are introduced and covered in this course. The topics include: Application of personal microcomputers to agricultural business situations. Use and evaluation of spread sheets and word processing software are covered. Introduction to plant and animal sciences, basics of livestock evaluation, history and traditions of the FFA organization, public speaking, intro to fishery science, intro to soils, intro to metals and welding (basic welds are required at proficiency level), Safety; Use tools, equipment, machinery and technology to work in areas related to agriculture, intro to dairy and food science, intro to parliamentary procedure and agricultural sales and marketing. Oregon Agriculture, Students will create a Supervised Agricultural Experience project (SAE) and maintain records year round. SAE visits are scheduled through the instructor. Use oral and written communication skills in creating, expressing and interpreting agricultural information and ideas including technical terminology. Use information technology tools to access, manage, integrate, create, and communicate agricultural information. Field trips can occur through this class for application of skills and industry opportunities**.**

FA **Integrated Agriculture (Ag II):** A variety of topics are covered ***in more detail*** in this course. Continued planning and goal development of SAE projects, record maintenance of projects. Soil and Crop Science, Classify, evaluate, select and manage animals based on anatomical and physiological characteristics, History of American Agriculture, Parliamentary Procedure, Food Science, Community Service (CRLE), Applications and Awards, Perform safety, health, inspection, and repair processes related to welding and thermal cutting. Use tools, equipment, machinery and technology to work in areas related to agriculture (SMAW, GMAW, OA, OA Cutting, etc. Employ elements of design to enhance an environment. Plan, build and maintain agricultural structures. Use and evaluation of spread sheets and word processing software are covered. Apply basic principles of animal nutrition to ensure the proper growth, development, reproduction and economic production of animals. Field trips can occur through this class for application of skills and industry opportunities. ***At the conclusion of completing Ag I and II, student can count 1 SC/1 EL credit instead of FA credit as well as have college dual credit available.***

FA **Advanced Agriculture (Ag III/IV):** This course rotates a variety of topics between two years. Topics include: Wildlife Management, Forestry, Ag Business, further development of SAE goals, Applications and Awards, Community Service (CRLE), Planning and Preparation of Events (CRLE), Use leadership skills in collaborating with others to accomplish agriculture related organizational goals and objectives. Perform entry level welding processes using a variety of welding technologies including shielded metal arc welding (SMAW), gas metal arc welding (GMAW), flux cored arc welding (FCAW), and gas tungsten welding (GTAW). Perform thermal cutting process using a variety technologies including manual oxy-fuel gas cutting (OFC), mechanized oxy-fuel gas cutting, and plasma arc cutting (PAC), Interpret drawing and welding symbols. Perform operations related to shop equipment used in welding, layout, and part preparation. Plan, build and maintain agricultural structures. Apply principles of animal

nutrition to ensure the proper growth, development, reproduction and economic production of animals. Utilize appropriate management planning principles in Agriculture business enterprises. Field trips can occur through this class for application of skills and industry opportunities. ***College dual credit is available after the completion of this series of classes.***

FA or SC **Veterinary Science:** This course is typically offered alternate years and is a semester course at this time. This course focuses on the anatomy and physiology of animals, pertinent vocabulary, hands-on applications of a variety of skills and labs, as well as safety and sanitation, diseases, basics of animal care, nutrition, reproduction, handling and restraining animals, patient care (in a clinic) and production practices. There are field trips that may occur through this class. Offered every other year. ***½ science credit available.***

FA **Ag Leadership:** This course is typically offered alternate years and is a semester course, at this time. Use leadership skills in collaborating with others to accomplish agriculture related organizational goals and objectives. Use oral and written communication skills in creating, expressing and interpreting agricultural information and ideas including technical terminology. Use information technology tools to access, manage, integrate, create, and communicate agricultural information. Use tools, equipment, machinery and technology to work in areas related to agriculture. Solve agriculture problems using critical thinking skills (e.g., analyze, synthesize and evaluate, independently and in teams). Know and understand the importance of professional ethics and legal responsibilities in agricultural careers. Know and understand the importance of employability skills for agricultural careers. Offered every other year.

FA or SC **Plant Science:** Use oral and written communication skills in creating, expressing and interpreting agricultural information and ideas including technical terminology. Use information technology tools to access, manage, integrate, create, and communicate agricultural information. Use tools, equipment, machinery and technology to work in areas related to agriculture. Apply knowledge of plant classification, plant anatomy and plant physiology to the production and management of plants. Prepare a plant management plan that addresses the influence of environmental factors, nutrients and soil on plant growth. Propagate culture and harvest plants. Employ elements of design to enhance an environment.

ART

FA Studio Art- This course is designed to provide a foundation for continuing art courses. Emphasis is placed on understanding the Elements of Art and Principles of Design as a basis for composition. Students will explore a variety of artists, art processes and materials such as drawing, painting, printmaking, two & three-dimensional design, and pottery. Student artwork will reflect aesthetics & cultural and historical contexts. Willingness to get involved in the creative process is a more important requirement than the student's talent or previous experience.

Rotations every other year: FA Intro to Welding- 1st Semester; FA Ag Mechanics- 2nd Semester; FA Floral Design- 1st Semester; Vet Science- 2nd semester

Business

FA **Publications:** A basic course in computers, photography, and publishing. Students will sign up for different events and clubs that they will be required to attend to take photographs for the yearbook. There is a website used to create each yearbook page that students will become extremely familiar with while constructing their yearbook pages. The class will also write a school newsletter, keeping everyone up-to-date with all the different activities and news going on at HHS.

FA **Business Finance Applications:** This class will provide a wide variety of useful and practical information that students will utilize on a daily basis for the rest of your life. The first section will consist of Personal Finance. This section will be broken up into multiple different topics (money management, financial security, credit, taxes, and career decisions just to name a few). At the end of this section there will be a 10-year simulation incorporating everything covered thus far. The second section will consist of Business Management and will cover two different topics (Management Today and Management Environment).

Music

FA **Choir I**: This is a course for those students who have not had much experience singing in a group. It will be an adventure in to unison, two and three part singing with some four part singing depending on the makeup of the group. We will be intermixing music theory including note recognition, rhythm reading and basic chord progression throughout the year. This course requires time outside of the normal school day for participation in performances and festivals.

FA **Band I**: This course is for the second or third year player who is looking to further their experience in a wind ensemble. There is an emphasis on playing scales and reading rhythms as well as listening across the band for correct balance and intonation. It is open to the really motivated beginning player who is willing to put in extra time outside the normal rehearsal schedule to learn their instrument. The more advanced players will be asked to play in the High School Pep Band during varsity home football and basketball games. This course requires time outside of the normal school day for participation in performances and festivals.

Spanish:

FA **Spanish I** Students will be able to communicate by having simple conversation discussing what is occurring in the present tense. Students will become comfortable with the sounds and pronunciation of the Spanish language. Students will be introduced to grammar and be expected to use and understand the basic principles of the language and grammar. Students will be expected to read, write, and speak Spanish at a beginner's level. Students will be expected to memorize short phrases and use short sentences when communicating. This course will also include culture activities that will not only teach them about different cultures but will teach them to understand and respect them. Students will be expected to read articles about the Latin American history and culture as well as locate information from the text that will assist them in writing essays as a reflection to informational text. Spanish I will prepare the student for the expectations of Spanish II.

FA **Spanish II** During this course we will be solidifying what we learned last year, continuing to develop skills that will help us better and more easily communicate in Spanish as well as learning more about the Latin American culture. Students will master the present tense and will expand their knowledge of the language. Students will become familiar with details of the language and will be introduced to different tenses; past, present progressive and more. Students will be required to do more speaking, writing, listening, and reading. **College Credit**

FA **Spanish III** During this course we will be developing a clearer understanding of the Spanish language. I will be requiring much more speaking and communication during this course. Students will master both past tenses and be expected to use them in speeches. Students will learn how to use the different types of pronouns correctly in their sentence structure. I will be challenging you to reach your fullest potential. You will also be required to do some reading; some in Spanish and some in English. **College Credit**

FA **Spanish IV** This year it is expected that you become comfortable and have little to no anxiety when you are communicating in Spanish. I will expect that you speak Spanish every day. The grammar portion of this course will be a combination of review and the subjunctive. The subjunctive is used a lot in Spanish and it is really important that you are familiar with it. The text gives you lots and lots of vocabulary and conversational phrases that will come in handy when speaking in Spanish. **College Credit**

Math

MA **Algebra I** Students will gain basic knowledge and understanding of the fundamentals of Algebra. This class is designed to prepare students for Geometry, which is the beginning level of college prep math. In this class we will focus on preparing students to meet the state assessment requirements.

MA **Geometry** Students will gain basic knowledge and understanding of the fundamentals of Geometry. We will also be concentrating on Algebra concepts. This class is also a preparatory class for Algebra II. We will focus on preparing students to meet their state assessment requirements.

MA **Algebra Connections** Students will gain basic knowledge and understanding of the fundamentals of Geometry. We will also be concentrating on Algebra concepts. This class is also a preparatory class for Algebra II. We will focus on preparing students to meet their state assessment requirements. In addition, students enrolled in Algebra II are assumed to have mastered those concepts outlined in the Algebra I and Geometry planned course statements. A thorough treatment of advanced algebraic concepts are provided through the study of functions, polynomials, rational expressions, complex numbers, matrices, sequences and series, probability, and trigonometry. Emphasis should be placed on practical applications and modeling throughout the course of study.

MA **Technical Math** Students will gain basic knowledge and understanding of the fundamentals of Geometry as well as concentrating on Algebra concepts. We will focus on preparing students to meet their state assessment requirements with a primary emphasis on real world application. There will be a direct correlation between math and hands on application.

MA **Algebra II** Students enrolled in Algebra II are assumed to have mastered those concepts outlined in the Algebra I and Geometry planned course statements. A thorough treatment of advanced algebraic concepts are provided through the study of functions, polynomials, rational expressions, complex numbers, matrices, sequences and series, probability, and trigonometry. Emphasis should be placed on practical applications and modeling throughout the course of study.

MA **Algebra III** The student will study and demonstrate knowledge of prerequisite skills needed for MTH 105 and MTH 111. These skills include solving algebraic equalities and inequalities, logarithmic equations, and systems of linear and nonlinear equations. Also included is graphing algebraic functions, logarithmic functions and conic sections.

MA **Pre-Calculus 1 (MA 111) –** This is a college algebra class designed to prepare students for calculus. This course is taught concurrently with math 111 on the BMCC campus. Students will be expected to complete the coursework in a manner consistent with a college course. Functions generally studied in calculus are algebraic functions (i.e. quadratic, rational fractions, exponential, logarithmic), along with in interpretations of algebraic expressions (i.e. inequalities, domain and range, transformations). For exams there will a calculator part and non-calculator part (TI-84 is the recommended calculator).

MA **Pre-Calculus 2 (MA 112) –** This is a college course similar to math 111 with the same expectations. This course will differ in that it will focus on trigonometry. Trigonometry generally studied in calculus are trig functions (i.e. sine, cosine, tangent, secant, cosecant, complex numbers, and vectors), along with graphing of trigonometric expressions (i.e. polar coordinates, Euler's formula, and trigonometry transformations). For exams there will a calculator part and non-calculator part (TI-84 is the recommended calculator).

Language Arts

LA **Language Arts 9** This class is designed to help students improve their reading comprehension, literary interpretations, and strengthen their writing. This class is Credit for Proficiency and each student must meet certain standards deemed appropriate by the Common Core State Standards for ninth grade.

LA **Language Arts 10** This class is designed to help students improve their reading comprehension, literary interpretations, and strengthen their writing through different writing genres and prompts. This class is Credit for Proficiency and each student must meet certain standards deemed appropriate by the Common Core State Standards for tenth grade.

LA **Language Arts 11** This class is designed to expose students to different types of reading and writing genres. This will help improve their reading comprehension, literary interpretations, and strengthen their writing. The students will begin learning how to organize and write a research paper, and write to a plethora of topics and genres not limited to poetry analysis and career research papers. This class is Credit for Proficiency and each student must meet certain standards deemed appropriate by the Common Core State Standards for eleventh grade.

LA **Language Arts 12** This class is designed to help students further improve their reading comprehension, literary interpretations, and strengthen their writing through various genres and writing prompts with an emphasis on research. Students will prepare for SAT/ACT tests by learning SAT vocabulary and writing to various SAT/ACT writing prompts. This class is Credit for Proficiency and each student must meet certain standards deemed appropriate by the Common Core State Standards for twelfth grade.

LA **Honors Literature and Composition** course is designed to give students multiple opportunities to work with the rhetorical situation, examining the authors' purposes as well as the audiences and the subjects in texts. Students write in a variety of modes for a variety of audiences, developing a sense of personal style and an ability to analyze and articulate how the resources of language operate in any given text. Because our students are constantly confronted with visual images, we also study the rhetoric of visual media such as photographs, films, advertisements, comic strips and music videos. In accordance with the College Board's *AP English Course Description*, this course teaches "students to read primary and secondary sources carefully, to synthesize material from these texts in their own compositions, and to cite sources using conventions recommended by professional organization such as the Modern Language Association (MLA)

Science:

SC **Biology I** This is a class most students will take as freshmen or sophomores. It has been a required course and counts as one of three Science credits required for graduation. Topics covered range through all of the most common Life Science Standards. The year begins with Science Methods then moves to Cells as the basis for all life. A large portion of the class is devoted to Cellular Biology including Genetics and Inheritance. The final portion of the year is devoted to Ecology. The final part of the year students will cover the kingdoms of life, Bacteria, Protist, Fungi, Plant, and Animal.

SC **Astronomy (0.5 Semester Credit) –** This is an online canvas course. Astronomy courses offer students the opportunity to study the solar system, stars, galaxies, and interstellar bodies. This course will introduce how astronomy is explored/discovered, along with the instruments used by scientist. Students will explore theories regarding the origin and evolution of the universe, space, and time.

SC **Geology (0.5 Semester Credit) –** This is an online canvas course. Geology courses offer students the opportunity to study the Earth and many of its complex systems. Earthquakes, volcanoes, and plate tectonics represent some of the courses more complex systems. A backbone for the course will be the rock cycle as rocks move through a recycling process. The course features some of the geology of the region with the weathering of rocks from ice age floods to glacial forging out Wallowa Lake. This course will give students the chance to explore National parks and geological time.

SC **Biology 101, 102 and 103** These courses are offered as a Canvas course through Riverside High School as College Level Classes. This series is college level coursework and will be graded accordingly. It is designed to fulfill the general requirements for Life Science for college degrees and credit is given through BMCC for those students meeting the proficiency requirements. There is the option of receiving High School only credit. The assessments however are the same for college and high school credit. Students who complete required assignments in addition to the midterms and final can receive up to a 10% adjustment for rigor to aid their high school grade. The syllabus is the same for all high schools offering this class and is given to the students at the beginning of each term.

SC **Physical Science –** This is a science course that focuses on the physical world (what we see and feel with our own senses). Students will be challenged to learn the material through personal experiences past and present. Student's proficiency will be demonstrated by knowledge of the material, application of material, and writing about relationships to the real world. Areas of will be divided into three areas of focus: matter (i.e. physical and chemical properties of matter, periodic table, and the structure of the atom), energy (i.e. forms of energy, energy transformations, and conservation of energy), and force (i.e. Newton's laws of motion, nature of forces, and interactions of energy and matter).

SC **Chemistry Honors –** The topics for this course would be equivalent to a college 106 chemistry class, but NO college credits available. Topics covered in this course will include dimensional analysis, atomic structure, stoichiometry, the periodic table, and chemical bonding, structure of matter and solutions. Other topics include nuclear chemistry, and an introduction to organic chemistry and hydrocarbons.

Health/PE

PE **Health** This class will prepare students to make healthy decisions and take healthy actions on matters concerning personal, family and community health. Students will become health literate, and be able to use health information and services in a health-enhancing ways. The class will cover many health related topics: Alcohol, tobacco and other drug use prevention, Promotion of sexual health, Prevention and control of disease, Promotion of health eating, Promotion of environmental health, Violence and suicide prevention, Promotion of mental, social and emotional health, Promotion of physical activity, Unintentional injury prevention.

PE **PE:** This class will prepare students for the long-term benefits of an active and healthy life. They will receive an education by participating in a variety of team sports, life long activities, weight lifting, movement fundamentals, and rhythmic activities.

PE **Athletic Conditioning** Weight training and conditioning will take the student through principles of flexibility, speed, power, strength and agility development. Each student will develop personal goals and design a workout to address their needs and aspirations. Nutrition and appropriate work out design for the desired outcomes will be a focus of activity.

Social Science

SS **U.S History** This class emphasizes America's history throughout the 20th Century. It explores the political, social and economic dynamics that define this changing period of our history and its global impact. Students will understand the structure of power, authority and governance and their functions in the United States and around the world. We will identify the purpose and characteristics of various governments and how people resolve conflicts. Our goal will also be to examine and understand the relationship between individual rights and responsibilities

SS **Gov/Economics** This one semester class fulfills Morrow County graduation requirements. During the semester students will develop an understanding of basic micro and macroeconomic concepts. These concepts will then be used to analyze current U.S. and global policies that effect today's society. Students will understand and analyze a variety of objectives that meet Oregon standards. These include the concepts of economic systems and how they differ. How resources and scarcity dictate economic decision making. We will understand the supply and demand

theories and the role governments play in regulation of business. We will develop a model business and a business plan. We will understand the basic components of the stock market and financial planning. Finally, we will predict and propose solutions for global economic challenges that that the future brings.

This one semester class fulfills Morrow County graduation requirements. During the semester students will develop an understanding of basic fundamentals of government and democracy. These concepts will then be used to analyze current U.S. and global policies that effect today's society. Students will understand and analyze a variety of objectives that meet Oregon standards. These standards include but are not limited to the concept of federalism, separation of powers and the checks and balances of our branches of government. We will develop an understanding of what political participation means and who public policy affects our lives. Finally, we will analyze our constitution and court decisions that guide our lives.

SS **Honors Psychology** This class will study and analyze the American Psychology Association's (APA) five domains and 15 content areas; these standards fulfill Oregon's requirements for credit. These domains include: biopsychological, cognitive, developmental and sociocultural concepts that will help us gain insight into behavior and mental processes. In this class we develop an understanding of the history of psychology and the methods for examining behavior and mental processes. We will discuss how the brain processes information and how we adapt to our environment. We will analyze how stress hinders our effectiveness and what can lead to a healthier existence. We will examine the lifespan development and evaluate personality theories and abnormal behavior. This course will satisfy a Heppner High School's honors diploma requirement.

SS **World History** This class is designed to meet the standards of proficiency as set forth by the Oregon Department of Education. The class is organized through certain themes such as politics and history, the role of ideas, economics and history. We will explore the importance of cultural development, religion in history and the role of individuals who have impacted science and technology. The goal of this class is to provide students with an understanding and analysis of certain historical events that have shaped our society and world today. It is an analysis of units such as, enlightenment and revolution, the age of exploration and discovery, nationalism, and the balance of power. This course will also provide students a foundation for evaluation and synthesize of events that have had an impact on today's social, political and economic systems. Through this curriculum it is intended for students to have a basic knowledge of civics and the ability to communicate that knowledge.

EL **Public Speaking (Communications 111)** This Eastern Promise class is designed to provide students with the opportunity to study the art of public speaking and the fundamentals of speech. Students will also be required to prepare and outline full text speeches according to APA writing standards. Students will utilize a variety of speaking genres in order to enhance their higher critical thinking skills. This class will follow the proficiency based assessment portfolio that Blue Mountain Community college requires for (4) four college credits. This course will satisfy a Heppner High School's honors diploma requirement

Other Courses

CE **Success 101** is an interdisciplinary curriculum that engages students and teachers in an interactive learning process, helping them develop the knowledge, skills, and attitudes needed to successfully: examine their own lives, explore and evaluate a wide range of education and career options, and make reasoned and researched goals for their future. This year-long Freshman Transition course facilitates the in-depth exploration of three fundamental questions: Who am I? What do I want? How do I get it?

CE **Senior Seminar** A course to help seniors get ready for their first year out of high school. During this course we will explore student's options and provide assistance and resources to better prepare the student for their adult life.

A lot of time will be given to work on portfolios. Students will be given ample time to meet all requirements of this class.