

# **POWELL COUNTY HIGH SCHOOL**

## **CURRICULUM HANDBOOK**

### **2021-2022**

#### **ENGLISH**

##### **ENGLISH I**

Freshmen students focus on the basics of writing five paragraph essays. Students will practice writing personal narrative, persuasive, character analysis, and comparison-contrast essays. In addition, students will study the basic methodology of writing research papers using the APA style. In literature, freshmen students will study and apply plot structure and other related literary concepts to short stories, nonfiction selections, novels, and dramatic plays. Throughout the year, students will complete vocabulary lessons, review and reinforce grammar and mechanics concepts, and earn AR points with outside reading.

Prerequisite: 9<sup>th</sup> grade required.

##### **ENGLISH II**

Sophomore students will focus on writing well-developed paragraphs and five paragraph papers, as well as write some shorter creative pieces. Specifically, students will practice writing paragraphs of a variety of lengths as well as several types of essays. Essay styles will include: persuasive, compare/contrast, and memoir. Focus for the literature portion of the class will include a review of classic and contemporary World and American literature with a small focus on literary elements. Novels, short stories, drama, poetry, science fiction, historical fiction, nonfiction, and primary documents will all be used. Throughout the year, students will complete weekly vocabulary lessons, lessons on grammar/mechanics, as well as study etymology and earn AR points with outside reading.

Prerequisite: 10<sup>th</sup> grade required

##### **ENGLISH III**

Junior students will practice and hone their writing skills to expand a five paragraph essay into longer, more detailed/complicated writings. Specifically, students will practice persuasive, comparison-contrast, expository, memoir, reverse climatic and poetic forms of writing. In addition, students will engage in an in-depth research writing project. Focus for the literature portion of the class will include a historical review of American literature from its earliest conception with Native American literature through contemporary American authors including Young Adult Literature. Novels, short stories, poetry, science fiction, historical fiction, nonfiction, and primary documents will all be used. Throughout the year, students will complete vocabulary lessons, review and reinforce grammar and mechanics concepts, and earn AR points with outside reading.

Prerequisite: 11<sup>th</sup> grade required.

##### **ENGLISH IV**

Senior students will refine and adapt their writing skills to create a research paper, as well as be introduced to technical writing. Specifically, students will practice short research paragraphs and use the techniques learned to write a much longer piece. Focus for the literature portion of the class will include a review of contemporary World and American literature with a small focus on literary elements. Novels, short stories, poetry, science fiction, historical

fiction, nonfiction, and primary documents will all be used. Students will also work on career preparation such as writing resumes, cover letters, and participating in community interviews. Throughout the year, students will complete weekly vocabulary lessons, lessons on grammar/mechanics, as well as study etymology and earn AR points with outside reading.  
Prerequisite: 12<sup>th</sup> grade required.

### **JOURNALISM and MEDIA**

Journalism is a year-long course designed for students interested in news journalism and developing their skills as a writer by writing and publishing a school newspaper on a regular basis, both in print and online. The course incorporates extensive research skills; investigative reporting; expository, argumentative, and journalistic writing skills; the writing process; and problem solving techniques. Students work as a collaborative team to brainstorm school issues, select articles, create layouts, maintain a working budget, and promote the paper to the school. In addition, the staff will also utilize their skills as photographers, artists, desktop publishers, and business students who are responsible for the visual and budgetary aspects of the paper. The course explores the contemporary media and the ethical responsibility issues inherent in the press today. Students will learn the fundamentals of news, feature, editorial and sports writing. Copy reading, news style and editing will also be stressed.

This class is also responsible for producing the annual yearbook. Students will also learn to use the Internet for obtaining and making graphics and text artwork. Students will master graphic and text manipulation as well as fine-tuning their photography and typing skills. Interested students should contact Mr. Webster for an application.  
Prerequisite: 10<sup>th</sup>-12<sup>th</sup> grade with instructor approval

### **SPEECH AND DEBATE**

Overcome stage fright. Discover your inner thespian. Debate like a champion. Improve your refutation and active listening skills. Act with confidence. Individual activities taught in this class include: improvisational speaking, extemporaneous speaking, philosophical debate, evidential debate, improv comedy, storytelling, and memorized acting. Students who take this course are encouraged, but not required, to take part in the MHS A Speech and Debate extracurricular. Students who remain in this class for two semesters will create projects designed to demonstrate mastery with these skills. In this class, students will speak every day.

This is a one semester class; however, students may enroll in both semesters.  
Prerequisite: None. 9<sup>th</sup> through 12<sup>th</sup> grade standing.

### **AP ENGLISH LITERATURE/COMPOSITION**

This class is for students who have a genuine interest in literature. Students who participate in the AP English class will have the opportunity to take AP tests in the spring. Students who pass these AP examinations will be awarded college credit. Students who participate in this class will read independently and come to class prepared to take part in discussions. AP students will learn the specifics of literary criticism, including analytical terms and literary theory lenses. AP students will complete timed writing exercises as well as read sample essays from previous AP students. The reading material for this class includes novels, dramatic works, short stories, and poetry. Students seeking a reading and writing experience that will prepare them for college should strongly consider this course.  
Prerequisite: 12<sup>th</sup> grade standing

## **ENGLISH 10, 11 AND 12 COMMUNICATION:**

This course focuses on developing writing, vocabulary, listening, discussion and literacy skills. While emphasizing the fundamentals of composition and reading, this course also introduces and develops technical writing skills. Objectives include demonstrating knowledge, growth and competent performance in writing, grammar, reading, mechanics and vocabulary development. Coursework includes Daily Oral Language, weekly vocabulary work, nonfiction and realistic fiction and short daily writing assignments.

Enrollment is based on recommendations from teachers and administration.

## **MATHEMATICS**

### **PRE-ALGEBRA (Title I Math)**

This year-long course is designed for freshmen who are not ready for Algebra I and need a bridge between 8<sup>th</sup> grade mathematics and Algebra I. This course will be a review of the four basic operations with all the numbers sets, learning the properties in mathematics and how to apply those properties when simplifying expressions and solving equations. Students will develop an understanding of ratios, rates, proportions, percent, and similar figures. Students will be introduced to the basic algebra concepts such as: writing and graphing equations, simplifying expressions with exponents, and learning how to use the four operations with polynomials. Students will learn the basic geometric concepts by finding area, perimeter, and volume of various shapes. Students will have an understanding of the Pythagorean Theorem and how to use it to find a missing side in a right triangle. Overall, this class will give students the knowledge so they can be successful in Algebra I.

Prerequisite: 9<sup>th</sup> grade standing, test scores, parent and teacher recommendations.

### **ALGEBRA I**

This course deals with the following mathematical concepts: an introduction to the real number system, using variables to solve linear equations and inequalities, solving systems of equations with two unknowns, graphing functions, solving quadratic equations by both completing the square and the quadratic formula, and solving word problems. Students taking Algebra I should be able to work with both abstract and modern algebraic concepts.

Prerequisite: Pre-Algebra or 9<sup>th</sup> grade standing. Freshman placement based upon entrance exam.

### **GEOMETRY**

Geometry is a system of mathematics, which is carefully built upon undefined terms, definitions, postulates, and proven theorems. The student will become aware of inductive and deductive reasoning by developing formal geometric proofs. The geometric concepts discussed are: point, line, plane, parallel lines, congruence, similar figures, triangles, types of quadrilaterals, circles, prisms, pyramids, cylinders, and cones. Also included is an introduction to logic and trigonometry.

Prerequisite: Algebra I. Freshman placement based upon entrance exam and/or teacher recommendation.

### **ALGEBRA II**

Algebra II is a preparatory two-semester course which can be foundational for future mathematics study for some students or the culmination of high school math for others. The major units will include (1) Equations and Inequalities with an emphasis on Linear Relations

and Functions along with Systems of Equations and Inequalities; (2) Quadratic, Polynomial, and Radical Functions and Relations; (3) Advanced Functions and Relations including Exponential, Logarithmic and Rational along with Conic Sections; and (4) Discrete Mathematics including Sequences and Series, Statistics and Probability. A TI-83/84 Graphing Calculator will be used throughout the course.

Prerequisite: Algebra I and Geometry

### **PRE-CALCULUS**

Pre-Calculus is a preparatory two-semester course for the college bound student. This course is intended to prepare junior students for AP Calculus AB as seniors, but will also be beneficial to seniors whose future plans involve majors which will require at least one Calculus course in college. A TI-83/84 Graphing Calculator will be used throughout the course. Pre-calculus includes the study of linear, polynomial, exponential, logarithmic and trigonometric functions and conic sections. Algebra topics include solving polynomial, exponential and logarithmic equations and quadratic and rational inequalities, graphing all of the functions and conic sections, and algebra applications. Trigonometric topics include right triangle trigonometry and applications, trigonometric graphs, identities, the Law of Sines and Cosines and polar coordinates.

Prerequisite: Successful completion of Geometry and Algebra II with a minimum of 80%.

### **AP CALCULUS**

AP Calculus AB is a two-semester course for the college bound student. Students are expected to take the AP Exam in early May with the opportunity to earn college credit with a qualifying score of 3 or above. It will especially be helpful for the student whose college plans involve mathematics, sciences or engineering. Calculus deals with calculating things that change at variable rates. The four concepts which help do this are Limits, Derivatives, Definite Integrals, and Indefinite Integrals. Pre-calculus review is embedded throughout the course. Topics include but are not limited to Limits and Continuity, Definition of Derivative and Difference Quotient, Implicit Differentiation, Curve Sketching, Applications of the Derivative, Riemann Sums and Applications of Integration. A TI-Nspire CAS Graphing Calculator is utilized throughout the course.

Prerequisite: Successful completion of Pre-calculus with a minimum of 80%.

### **INTRODUCTION TO STATISTICS**

The purpose of Intro to Statistics is to introduce and help students to learn the major concepts and tools for collecting, analyzing and drawing conclusions from data. Through application, simulation and group work, the students will foster ideas that will allow them to not only understand the fundamental principles of statistics but also realize their importance in everyday life, including decision making and relevance to different careers which use statistical methods. This course will draw connections between all aspects of the statistical process, including design, analysis and conclusions. In addition, using the vocabulary of statistics this course will teach students how to communicate statistical methods, results and interpretations, with emphasis placed on writing skills and explaining logic. Students will learn how to use graphing calculators and interpret data from statistical software in an effort to enhance the development of statistical understanding.

Prerequisite: Successful completion of Algebra II with a minimum of 80%.

### **BUSINESS MATH (will not be offered 2020-2021)**

This will be a full year course offered as an elective to count towards the required 3 years of mathematics for graduation. The course will cover the four basic operations, proportions, percent and how they apply to a student's everyday personal finance. Students will learn the mathematics behind owning their own business and how to compute simple and compound interest as it relates to investing money. Students will learn how to find a sales tax, calculating taxes taken out of a paycheck, the aspects of purchasing insurance, filling out a simple 1040 income tax form, understanding the stock market, and balancing a checkbook from a monthly bank statement, just to name a few. Overall, this class will give students a sense of how mathematics will be involved in their everyday life in order for them to make informed decisions.

Priority will be given to those students who are *not* college-bound.

Prerequisite: 11<sup>th</sup>-12<sup>th</sup> grade standing.

## **SCIENCE**

### **PHYSICAL SCIENCE**

Physical Science is a year-long course designed to relate scientific concepts, processes and exploration to everyday life. Students will explore earth science systems and environmental issues; basic chemical and biological processes; matter and energy; and atomic and molecular structures. Students will develop an understanding of basic laboratory skills; dimensional analysis and SI measurements; data analysis using tables and graphs; digital citizenship and collaborative problem solving.

Prerequisite: 9<sup>th</sup> grade required.

### **BIOLOGY**

In this required course, students will explore the principles of life as we know it on Earth. Students will use computer based and traditional laboratory techniques to obtain, organize, and analyze data. Topics include: biomolecules, membrane transport, cell structure, cellular energy, genetics, DNA, change over time, ecology, and organ systems.

Prerequisite: 10<sup>th</sup> grade required.

### **ANATOMY AND PHYSIOLOGY**

Students will explore the human body and learn about the interaction of different systems responsible for keeping us alive. This course will focus on naming specific parts of the body, as well as how each of them function. This course includes dissection and video-imagery of surgical procedures or injuries. Students will be building a model human body throughout the year which will include working with clay. This course would be a great introduction to anyone interested in a career in the medical or healthcare field.

Prerequisite: 11<sup>th</sup>-12<sup>th</sup> grade standing; B minimum in Biology.

### **CHEMISTRY**

Chemistry is a year-long college preparatory course designed to examine the structure of matter at the atomic and molecular levels, as well as the relationship between matter and energy. The various interactions between particles at the atomic level will be explored by experimentation and team problem-solving exercises, as well as through traditional lecture. Some topics covered as part of this exploration will be: development of modern atomic theory and the

periodic table, gas laws, chemical formulas and equations, stoichiometry, acid-base chemistry and reaction kinetics.

Prerequisite: 11<sup>th</sup>-12<sup>th</sup> grade standing. Biology & concurrent enrollment in Algebra II.

## **PHYSICS**

Physics is year-long college preparatory course designed to examine the interactions of matter and energy on a macroscopic level. The mechanics of motion, force, momentum and energy will be studied through lecture, guided experimentation and open inquiry assignments. Waves, light, and electrical and magnetic phenomena may also be studied, in like manner. Students will be evaluated through quizzes, group projects and individual projects.

Prerequisite: 12<sup>th</sup> grade standing. Successful completion of Algebra II and Chemistry. Concurrent enrollment in Pre-Calculus is also encouraged.

## **SOCIAL STUDIES**

### **WORLD HISTORY**

World History is a one-year class focused on six different time periods in recorded history beginning with the classical civilizations and ending with World War II. The major emphasis of this course is on European History. The instructional methods used are lecture, written assignments, reading, group study, group discussions, oral and written reports, and film.

Prerequisite: 9<sup>th</sup>-10<sup>th</sup> grade standing.

### **CURRENT EVENTS**

This is a one-semester class with a focus on present day news events. Instructional methods used include 100 current event questions to be researched weekly, diary of news events daily, class discussions, oral reports and critiques of news programs and newspapers. Evaluation is based upon weekly tests, Newsweek quizzes, and an end-of-the-year major project.

Prerequisite: 9<sup>th</sup>-12<sup>th</sup> grade standing.

### **AMERICAN HISTORY**

American History is a survey course of American History beginning with the age of discovery and ending with the new American frontiers. Instructional methods used are lecture, written assignments, reading, group study, group discussion, oral, and written reports, and films. Evaluation of the course will be based upon tests, quizzes, project papers, worksheets, and class participation.

Prerequisite: 11<sup>th</sup> grade required.

### **MONTANA HISTORY**

Montana History is a year-long class that surveys the history of Montana from ancient times through modern Montana History. It will enhance the students' knowledge of Montana's social, political, and economic development. The class will use lecture, group discussion, research projects and papers, films, reading, and written assignments. Evaluation of the course will be based upon quizzes, tests, written assignments, and assigned papers and projects.

Prerequisite: 9<sup>th</sup>-12<sup>th</sup> grade standing.

### **AMERICAN GOVERNMENT**

American government is a class that will study the structure and functions of the U.S. government, as well as state and local government. It will include a complete and detailed

study of the legislative, executive, and judicial branches of government, as well as a review of the U.S. Constitution with emphasis on the rights guaranteed to all Americans. The class is designed to aid the student in fulfilling civic obligations, as well as developing an understanding and appreciation of his/her country's government.

Prerequisite: 12<sup>th</sup> grade required.

### **PSYCHOLOGY**

This semester-long course will focus on human behavior and development. Students will study theories, careers, and prominent studies that have lent insight into the human experience.

Prerequisite: 11<sup>th</sup>-12<sup>th</sup> grade standing.

### **ECONOMICS**

This semester-long course will focus on how society distributes goods and resources. Students will learn economic concepts involving personal and national finance. They will also compare and contrast economic systems throughout the world.

Prerequisite: 11<sup>th</sup>-12<sup>th</sup> grade standing.

## **HEALTH AND PHYSICAL EDUCATION**

### **FRESHMAN HEALTH ENHANCEMENT**

Freshman Health Enhancement is an introduction to team and individual sports with an emphasis on knowledge of skills and rules. This class is also an introduction to making healthy choices regarding the following topics: substance abuse, mental health, nutrition, sex education, and physical fitness. The emphasis on fitness is carried out throughout the year in both physical education and health.

Prerequisite: 9<sup>th</sup> grade required.

### **SOPHOMORE HEALTH ENHANCEMENT**

Sophomore Health Enhancement deals with the following topics: human development, substance abuse, modern health problems, and first aid. Emphasis on lifetime fitness is carried on throughout the physical education & health classes. Sophomore Health Enhancement emphasizes advanced forms of skills in individual and team sports. More emphasis is placed upon lifetime activities whenever possible.

Prerequisite: 10<sup>th</sup> grade required. Freshman Health Enhancement.

### **FITNESS FOR LIFE**

Fitness for Life is designed to provide students with a comprehensive view of different areas of weight training, circuit training, speed, stretching and sport. Weight training for sports and general physical fitness programs will enhance student performance in athletics and fitness characteristics for everyday life. This will be accomplished by the following: strength, power, motor ability, speed, and endurance; develop skills and activities to serve as a basis for use in leisure time, develop essential safety skills, with proper fitness terminology; to develop safe positioning when exercising.

Beginning in the 2021-2022 school year, students will not be permitted to repeat this class.

Prerequisite: 11<sup>th</sup> or 12<sup>th</sup> grade standing. Minimum of B in Health Enhancement.

## **FOREIGN LANGUAGE**

### **SPANISH I-DUAL CREDIT SPNS 101**

Spanish I will begin preparing the student to understand, speak, read, and write Spanish and to appreciate and understand the culture of Hispanic countries. Students choosing to earn college credit for this class must meet additional requirements and pay tuition at 50% of the current rate.

Prerequisite: None

### **SPANISH II-DUAL CREDIT SPNS 102**

Spanish II will continue preparing the student to understand, speak, read, and write Spanish and to appreciate and understand the culture of Hispanic countries. Students choosing to earn college credit for this class must meet additional requirements and pay tuition at 50% of the current rate.

Prerequisite: Spanish I

### **SPANISH III**

Spanish II will continue preparing the student to understand, speak, read, and write Spanish and to appreciate and understand the culture of Hispanic countries. Students choosing to earn college credit for this class must meet additional requirements and pay tuition at 50% of the current rate.

Prerequisite: Spanish II

### **AP SPANISH IV**

In AP Spanish the majority of the class is conducted in Spanish. The student studies Spanish literature by reading short stories, reads selections dealing with Hispanic culture, and studies Spanish art. Advanced grammar which was covered in third year is reviewed and the student completes the study of advanced grammar by learning the use of the subjunctive mood. Much of the class is geared to preparing the student to take the Advanced Placement test at the end of the year to gain college credit. The student is encouraged to check with the chosen college for information on how to receive college credit in Spanish based on the AP exam score. .

Prerequisite: Spanish III.

### **FRENCH I-DUAL CREDIT FRNCH 101**

This class focuses on the four language skills of listening, speaking, reading, and writing in the cultural context of French-speaking countries. Students choosing to earn college credit for this class must meet additional requirements and pay tuition at 50% of the current rate. Intro to French is not required, but may be taken concurrently.

Prerequisite: None

### **FRENCH II-DUAL CREDIT FRNCH 102**

This class focuses on the four language skills of listening, speaking, reading, and writing in the cultural context of French-speaking countries. Students choosing to earn college credit for this class must meet additional requirements and pay tuition at 50% of the current rate.

Prerequisite: French I

## **PRACTICAL ARTS**

### **CAREER EXPLORATION-- *HEALTHCARE***

The goal of this year-long course is to provide students who are interested and committed to obtaining a career in healthcare with the opportunity to do so. Students will attend class at Deer Lodge Medical Center one period each day Monday-Thursday and in the classroom at the high school on Friday. Students will rotate through each of the various departments at the hospital learning the fundamental skills, protocols and vocabulary needed in a postsecondary training environment. Students who successfully complete this class will earn two credits.

Prerequisites: 11<sup>th</sup>-12<sup>th</sup> grading standing. Successful completion or concurrent enrollment in Anatomy and Physiology. Prior participation in REACH or MedStart Summer Institute. Students will be selected based on an application process which will include an interview by hospital personnel. Interested students should contact the office for an application. Enrollment is limited to six students.

### **CAREER EXPLORATION-- *EDUCATION***

The goal of this year-long course is to provide students who are interested and committed to obtaining a career in elementary education with the opportunity to do so. Students will attend class at School District #1 one period each day Monday-Thursday and in the classroom at the high school on Friday. Students will rotate through each of the various grades at SD1 learning the fundamental skills, protocols and vocabulary needed in a postsecondary training environment. Rotations at a local daycare center may be added at a later date. Students who successfully complete this class will earn two credits.

Prerequisites: 11<sup>th</sup>-12<sup>th</sup> grading standing. Successful completion or concurrent enrollment in Child Development. Students will be selected based on an application process which will include an interview by SD1 personnel. Interested students should contact the office for an application. Enrollment is limited to six students.

### **CAREER EXPLORATION—*VETERINARY SCIENCE***

The goal of this year-long course is to provide students who are interested and committed to obtaining a career in veterinary science with the opportunity to do so. Students will attend class a local veterinary clinic one period each day Monday-Thursday and in the classroom at the high school on Friday. Students will rotate through various areas at the clinic learning the fundamental skills, protocols and vocabulary needed in a postsecondary training environment. Students who successfully complete this class will earn two credits.

Prerequisites: 11<sup>th</sup>-12<sup>th</sup> grading standing. Successful completion or concurrent enrollment in Algebra II, Chemistry, Anatomy & Physiology and Agriculture Education (AG I, AG II or Livestock Management.) Students will be selected based on an application process which will include an interview by clinic personnel. Interested students should contact the office for an application. Enrollment is limited to two students.

## ***AGRICULTURE***

*AG I, Livestock Management and first semester AG II classes may spend some time at the school farm. This provides an opportunity for students enrolled in those classes to see and get involved in animal agriculture. Horticulture students may spend time at the farm working on landscaping projects. (Students will need to dress appropriately when at the farm or in the shop). All of the classes will be required to keep records using the A.E.T.*

*software. FFA is an integral part of all agriculture education classes and membership is provided by the state of Montana for all Ag-Ed students.*

### **AGRICULTURE EDUCATION I**

Ag-Ed I is a yearlong introductory agriculture course covering animal science and shop skills in hot and cold metal working. Leadership development including speaking skills and parliamentary procedure will be covered. This class is the introduction to welding, brazing, forge, soldering and other metal working skills. This class will have lots of hands on activities. Prerequisite: 9<sup>th</sup>-12<sup>th</sup> grade standing.

### **AGRICULTURE EDUCATION II**

**(Dual credit with FVCC college WLDG 100 and WLDG 185)**

Ag-Ed II is a yearlong course, which covers the areas of metal fabrication; A large part of this class is basic welding (WILDG 100). Computerized cutting with “PlasmaCam” and power tools will also be covered. This class is introductory (**basic**) welding. We will also cover forestry, animal science, leadership development and some introductory plant and soil science. This class will be open to sophomores that have had Ag. I, it will also be open to juniors and seniors with instructor approval and no prior ag class experience. Prerequisite: Successful completion of AG I or 11<sup>th</sup>-12<sup>th</sup> grade standing.

### **AGRICULTURAL PLUMBING AND ELECTRICAL**

This semester class is designed to give students instruction in the plumbing and electrical professions. Students will explore the career options available and the training and educational opportunities that exist for students in these fields. Students will do hands-on projects and learn to use different kinds of pipes, fittings and methods of joining them. In the electrical portion students will learn to draw and wire electrical circuits and to identify and use many of the electrical devices found in residential construction.

Prerequisite: 10<sup>th</sup>-12<sup>th</sup> grade. Preference will be given to students who have taken Ag I and II.

### **HORTICULTURE**

The Ag-Ed Horticulture course is a general horticulture and greenhouse operations class which is a yearlong course. Students will propagate plants and grow them in the greenhouse. Students will study agronomy, plant and soil science and work on landscaping projects at the school farm. They will also work on construction projects in and around the greenhouse.

Prerequisite: 10<sup>th</sup>-12<sup>th</sup> grade. Prior Ag class experience is not required.

### **LIVESTOCK MANAGEMENT**

Livestock Management is a yearlong course. The class will study domestic livestock including health care, nutrition, behavior and animal welfare. The class will travel to the school farm every day. Students will be required to dress out for the class—boots, coveralls, gloves, hat and coat. Students will be scored with a daily lab score and will need to make up missed days (make-up times will most often occur on the weekends.) This is a hands-on class conducted outside and active participation is required.

### **ADVANCED AG. WELDING**

**(Dual credit with FVCC, WLDG 111 and WLDG 185)**

Advanced Ag Welding is a year-long class that builds on the skills developed in Ag-Ed II (basic welding) and the Ag I (introductory metals and shop skills) class. Students wishing to take Advanced Ag Welding must have passed Ag-Ed II and developed sufficient skills as

determined by the instructor to enroll in this course. Out-of-position welding using various types of electrodes, M.I.G. (wire feed), and T.I.G. welding processes, and plasma arc cutting (“PlasmaCam”) units are covered. Hand and power tools usage and safety will also be covered. Project construction, computer applications and leadership development will be included. Students must pass competency tests with an 80% to use some machines. This is an advanced class and students must have proved themselves in Ag II class.

Prerequisite: 11<sup>th</sup> grade standing, Ag-Ed II (passed with a C or better).

**(Dual credit with college WLDG 111 and WLDG 185) This course also provides welders the opportunity to prepare for, practice and complete the AWS National Welding Certification exam to AWS D1.1 code to become a certified welder.**

### **SMALL ENGINES**

The Power Mechanics class is offered the first semester of the year. The students will cover tear down of a small engine and reassembly. They will identify the parts and functions of each component. They will also take measurements to determine the condition of the engine and then reassemble the engine. The school provides the small engines and equipment worked on in class. (To pass the semester the student’s engine must run.)

Prerequisite: 11<sup>th</sup>-12<sup>th</sup> grade standing

### **ADVANCED AG. METALS FABRICATION**

This class is offered during the same period as the Advanced Ag. Welding class. This is a projects construction class. Students will need to have projects to construct. A set of plans and bill of materials will be required for each project. This class is opened to seniors that have taken and passed Advanced Ag Welding with instructor’s consent. This course also provides welders the opportunity to prepare for, practice, and complete the AWS National Welding Certificate exam to become a certified welder.

### **SUPERVISED AGRICULTURAL EXPERIENCE**

The supervised agriculture experience (work experience) course is a semester long with a prerequisite of enrollment in an agriculture education class. This course can be taken each semester. Students are supervised by the agriculture teacher in cooperation with parents/guardians and employers. Students can have a supervised agriculture experience program in one or more of three areas: placement, ownership, or exploratory. Student projects will be done outside of school time and can be done in the summer. This course will require keeping records using the A.E.T. software, taking pictures and filling out applications.

Prerequisite: 9<sup>th</sup>-12<sup>th</sup> grade standing, consent of instructor, enrollment in an Ag class.

## ***FAMILY AND CONSUMER SCIENCES***

### **CULINARY I**

Students in this on-semester class will learn about nutrition and wellness, use a computer and mobile device applications to analyze their own diets. Students will learn kitchen safety as well as safe serving practices. Students will publish 2 pages to be included within a cookbook given out to each student by the end of the course. Students will find out how different types of foods have different principles involving their preparation and apply that knowledge by preparing foods within the units of yeast and quick breads, fruits, vegetables, meats, and holiday cookie and candy type foods. Students will learn to read a recipe, complete conversions and

equivalents. Students will be introduced to basic knife skills. Students will complete a food innovations project in which they will get a base recipe and develop their own product to market.

## **CULINARY II**

Students in this one-semester class will build on the basic cooking techniques they will have been introduced to from Nutrition and Wellness course. This semester students will learn about knives and small ware; moist and dry heat cooking methods; flavoring and seasoning foods; nuts, seeds and condiments; eggs, dairy and breakfast foods and drinks; salads, dressings and sandwiches; meat and poultry; as well as American ethnic cuisines.

Prerequisite: Nutrition and Wellness.

## **PROSTART I AND II**

This year-long class is an industry-driven curriculum that prepares students for a career in restaurant food service production. Students learn communication skills, safety and sanitation, large and small scale food preparation, meal planning, culinary math, and customer service. Students are given the opportunity for National Certification in Safety and Sanitation and the ProStart National Certificate of Achievement (COA). Earning the COA can give a leg up in job search, and opens the door to collegiate opportunities. Numerous restaurant, foodservice and hospitality programs offer benefits to ProStart graduates. These benefits include scholarships, class credits, and credit towards work experience requirements. To earn the ProStart National COA, a student must pass “The Foundations of Restaurant Management and Culinary Arts” Level 1 exam and Level 2 exam, document 400 hours of work experience and demonstrate proficiency on more than 50 workplace competencies. Work experience can come from paid jobs, school-based enterprises or relevant volunteer work. Students enrolled in this class have the option to compete on the PCHS ProStart team. Prerequisite: 11<sup>th</sup>-12<sup>th</sup> grade standing. Culinary I, II and Instructor Approval.

## **CHILD DEVELOPMENT**

During this year-long class students will study the physical, intellectual, social, and emotional development of a child from conception to five years of age. This course teaches parenting and care giving roles in relation to the developing child as well as guiding them in the learning process. The class will have opportunity for hands on experience in planning and implementing lessons and observing preschool and early primary aged children. This class is a basic foundation course for any student wanting to pursue a career in education or working with children in any capacity.

Prerequisite: 10<sup>th</sup>-12<sup>th</sup> grade standing.

## **INDUSTRIAL ARTS**

### **INTRODUCTION TO TECHNOLOGY**

This year-long course is designed to provide each student with the basic technology skills in construction, drafting, communication and monitoring, control, and feedback systems. It is an introduction to hands-on technology activities with emphasis placed on planning, design and problem solving. This course is designed to assist students to become technologically literate

citizens who exhibit appropriate critical thinking and problem solving skills as they assess the technology that influences their daily lives.

Prerequisite: 9<sup>th</sup> -12<sup>th</sup>.

### **WOODS I**

This semester course will provide students with basic to intermediate knowledge of woodworking. Safety is the main emphasis of the class. Students will make a nightstand or end table and be responsible for the cost of materials. There will also be a \$10.00 shop fee to cover the cost of glue, nails, screws, etc.

Prerequisite: Introduction to Technology

### **WOODS II**

This is a semester course and an extension of Woods I, with emphasis on shop power machines and power machine safety. Students are required to make a project of their choice with instructor's approval. Students pay for the wood and finish costs incurred for their project.

Prerequisite: C or better in Woods I.

### **BEGINNING DRAFTING – FULL YEAR**

The first semester will provide each student with the basic drafting knowledge for use in many practical areas. It provides each student with the basic knowledge for modern-day drafting. Several mechanical drawings are done throughout the semester. The second semester of the course will focus on architectural drafting. Students will learn about home design and all of the aspects that need to be considered when designing a home. Then students will design and draft their own homes.

Prerequisite: 9<sup>th</sup>-12<sup>th</sup>

### **ADVANCED DRAFTING – FULL YEAR**

During this full year course students will learn the latest drafting techniques using conventional drafting, mechanical arm, computer-aided drafting and 3D modeling. This is a hands-on class. Students are graded on class participation, tests, and classroom work produced.

Prerequisite: Beginning Drafting.

### **CARPENTRY TECHNOLOGY**

This semester class studies basic carpentry, with emphasis on power equipment safety. Small projects will be built. Students must bring their own tape measure and pencils. Students will be graded on class performance with several writing assignments. There will also be a \$10.00 shop fee to cover the cost of glue, nails, screws, etc.

Prerequisite: Woods I.

### **CABINETRY TECHNOLOGY**

This semester course teaches advanced level wood technology and design technology. Students will design and construct their own large project with door and drawer construction. Students pay for the wood and finish costs incurred for their project.

Prerequisite: Woods I.

## **FINE ARTS**

### **BAND**

Band provides students 9-12 the opportunity to participate in a performing arts course. It is open to any student who desires to participate in the band program who has previously played an instrument. Classes are designed to study music theory and history as it pertains to performance music, explore advanced fundamentals of music and teach advanced playing technique on a student's particular instrument. This course requires students to participate in the MHSА music festival in the spring (where the students participate in solo and small or large ensembles categories at district and state levels), a minimum of four performances a year, and performances at various other events that benefit the community.

Prerequisite: Previous band experience, or one semester of individual instruction, or consent of instructor.

### **CHOIR -- Men's and Women's**

This is a fine art elective course open to any student in grades 9-12 who is interested in singing and learning basic music theory. A wide variety of choral music will be studied throughout the year. Music theory is presented throughout the year as it pertains to the performance presentation of the music. This course requires participation in the MHSА Music Festival in the spring. Students may participate in solo and small or large ensemble categories at District and State levels. Students will be required to participate in a minimum of four concerts per year, as well as activities that benefit the community. Students must have the first semester in order to take the second semester because of the ongoing progressive theory lessons and sight reading development. Men's and women's choir are separate classes.

### **SELECT CHOIR**

This is a select group of students that will concentrate on performing at an advanced level including a cappella choral music of various styles for instance, madrigals. Music theory will be introduced as it pertains to the performance and presentation of the music as it is studied. This course requires participation at the MHSА music festival in the spring, minimum of four performances a year and performances at various other events that benefit the community.

Prerequisite: Audition

### **PERCUSSION**

Percussion class will give students 9-12 the opportunity to participate in a performing arts course. It is open to any student who desires to participate in percussion performance who has previously played a percussion or keyboard percussion instrument. Classes are designed to study international drum rudiments and keyboard percussion playing techniques. This course requires students to participate in the MHSА music festival in the spring (where the students participate in solo and small or large ensemble categories at district and state levels), and to perform with the main performing group (concert band.) There will be a minimum of four performances a year at the concert level as a percussion ensemble and/or with the concert band.

Prerequisite: Previous band experience, or one semester of individual instruction, or consent of instructor. Students are required to purchase their own sticks and/or mallets.

## **BEGINNING DRAWING**

In this course students will learn skills necessary to become proficient at drawing: contour, gesture, basic shapes, perspective, shading, value changes and establishing edges, etc. Pencil, charcoal and pen and ink will be used. One semester class.

Prerequisite: None

## **COLOR THEORY**

The first quarter, students will learn how to mix tints, shades and tones. Through this practice, students will become skilled at the process of mixing color and its significance in painting. In the second quarter the elements and principles of design will be explored. Students will be exposed to various artists and art styles. Using this knowledge, students will be able to differentiate among a variety of contexts in terms of characteristic and purposes of various works of art. One semester class.

Prerequisite: Beginning Drawing.

## **ADVANCED DRAWING – FIRST SEMESTER**

The first quarter will be spent learning to draw the human face using pencil and colored pencil. The second half of the quarter will be spent drawing the human face in pastel and a value self-portrait, as well as the introduction of drawing the human form in pencil.

Prerequisite: Beginning Drawing and Color Theory.

## **ADVANCED PAINTING– SECOND SEMESTER**

The first quarter the students will have the opportunity to develop their skills in tempera and watercolor. The students will choose from a variety of subjects.

The second quarter the students will further their knowledge using acrylics and watercolor.

Prerequisite: Beginning Drawing, Color Theory, and Advanced Drawing.

## **CERAMICS I and II**

Ceramics is a semester course in which students explore a broad range of techniques and approaches to art through hand-built and wheel-thrown clay. Students will study ceramics through art history, art aesthetics, art criticism, and art production. Students will learn to approach ceramic artwork as both functional and decorative sculptural objects. Development of technical skills and artistic vocabulary will include scoring, slipping, and hand building (slab, coil, and pinch techniques, wheel throwing, bisque firing, painting and glazing). Students are also required to keep a personal sketchbook and study specific artists, cultures, and art historical movement. The first nine weeks will be devoted to hand-building techniques, while the second nine weeks will involve wheel throwing. *A \$25 lab fee will be assessed for each class.*

Prerequisite: Beginning Drawing, Color Theory and approval of instructor.

## **ADVANCED PAINTING II**

Students will apply the techniques and styles they learned in advanced painting to create paintings with original content and composition. There will be more emphasis upon planning projects and reflecting on completed work. The students will be expected to demonstrate proficient painting skills by the completion of the project assignment. In addition to art production, students will study art history, art appreciation, and visual literacy.

Prerequisite: 11<sup>th</sup> grade standing; Beginning Drawing, Color Theory, Advanced Drawing, Advanced Painting; by teacher recommendation only.

## **ADVANCED STUDIO ART**

Studio Art is a program for those serious students who are interested in a concentrated study in the visual arts. Students will produce a body of artwork that will deal with quality, concentration, and breadth. A collection of work will be put together in a portfolio which can be used for exhibit, scholarships, competitions, and submitted for evaluation and grading. Students in this program will be required to keep a Research Work Book (RWB) which will contain all the studies and ideas for a piece of work. RWBs will be turned in every week. Students will be exposed to art history, art criticism, and aesthetics.

Prerequisite: Beginning Drawing, Color Theory, Advanced Drawing, Advanced Painting, by teacher recommendation only.

## **ART IV**

This is a semester-long studio course designed to challenge the motivated student with advanced art techniques. Students will recognize and use the elements of art, principles of design, media exploration, development of a portfolio, and history of art. Students will receive sequential semester long instruction in various media applications. Topics will include: drawing, painting, history/criticism, sculpture, printmaking, mixed media, portfolio development and presentation techniques.

Prerequisite: Beginning drawing, Color Theory, Advanced Drawing and Advanced Painting.

## **GENERAL ELECTIVES**

### **ONLINE CREDIT RETRIEVAL**

The alternative format will provide the opportunity for students to retrieve core curriculum subjects as individually needed. Students are identified via referrals made by administrators, counselors, teachers, parents, and/or students themselves. Courses are offered through the Montana Digital Academy.

Prerequisite: approval of principal, 11<sup>th</sup>-12<sup>th</sup> grade standing

### **COLLEGE CREDIT**

Motivated students who are interested in getting a jumpstart on their college careers, may enroll in one college class. Students will receive one-half elective credit on their high school transcript for each successfully completed semester of college coursework. The student's schedule must reflect enrollment in the OCR/CC class. It is the student's responsibility to register for their chosen college class prior to the beginning of the semester. Students interested in this option should consult with the Guidance Counselor or Principal.

Prerequisite: approval of principal, 11<sup>th</sup>-12<sup>th</sup> grade standing

## **SPECIAL SERVICES**

Services are provided to students who qualify under IDEA.