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The professional staff of the Powder River County District High School and Junior High School offer this handbook of Course Descriptions in order that you, the student and parent, can make informed choices concerning your academic interests while enrolled in Powder River County District High School and Junior High School.

The Unified Board of Trustees have determined the following classes must be successfully completed before graduation can be achieved, both at the Junior High and High School level.

JR. HIGH REQUIREMENTS

7TH GRADE - During the school year you will take 5 academic classes: Math, English, Reading, Science, and Social Studies, as well as one semester of PE.

8TH GRADE - During the school year you will take 4 academic classes: Math, English, Science, and Social Studies, as well as one semester each of PE, Keyboarding and Montana History.

Junior High			
<i>7th Grade</i>		<i>8th Grade</i>	
Semester	Semester	Semester	Semester
Math	Math	Math	Math
Science	Science	Science	Science
English	English	English	English
Reading	Reading	Montana History	Keyboarding
Social Studies	Social Studies	Social Studies	Social Studies
PE		PE	

HIGH SCHOOL GRADUATION REQUIREMENTS

To graduate from Powder River County District High School, students must earn a minimum of 22 high school credits including:

Graduation Requirements

- 4 years English(4 credits)
- 3 years Math(3 credits)
- 3 years Social Studies(3 credits)
- 2 years Science (3 recommended)(2 credits)
- 1 year Computer(1 credit)
- 1 year Fine Arts(1 credit)
- 1 year Practical Arts(1 credit)
- 1 Year PE(1 credit)
- Electives(6 credits)
- TOTAL22 credits

FOUR YEAR ACADEMIC PLAN

High School			
Freshman		Sophomore	
Semester	Semester	Semester	Semester
Earth Science	Earth Science	Biology	Biology
English I	English I	English II	English II
Math	Math	World History	World History
PE	Driver Education	Math	Math
		PE	

Junior		Senior	
Semester	Semester	Semester	Semester
English III	English III	English IV	English IV
US History	US History	PAD	PAD
Math	Math		

JUNIOR HIGH SCHOOL

Course Descriptions

MATHEMATICS

7TH GRADE MATH

This class builds upon the mathematical concepts developed in elementary school. Basic processes such as addition, subtraction, multiplication, and division; operations with decimals, and fractions are reinforced and mastered. Other concepts such as elementary geometry, percent, equations using positive and negative integers, problem solving and probability are introduced and developed. Introduction to variables including solving elementary algebra equations. The new Saxon math series will emphasize more problems that do not need calculators.

8TH GRADE MATH

Math 8 reviews the first half of Saxon Math 8/7 and goes into detail covering the second half of the book. The students review elementary math concepts (number theory, fractions and the metric system). Students will also begin to work with equations, percentages, integers, and statistics. The successful completion of 8th grade Math should prepare the student to advance to High School Algebra I. Saxon Math 8/7 stresses problems that do not require a calculator, so for most of the year calculators are not used.

LANGUAGE ARTS

7TH GRADE ENGLISH

7th grade English is designed to aid students in developing skills in spelling, vocabulary, listening, following directions, note taking, doing research on the internet, practicing grammar rules, and writing. Emphasis will be placed on the mechanics and rules of grammar and their applied use through writing assignments.

8TH GRADE ENGLISH

8th Grade English includes all areas of the language arts: writing, reading, speaking, and listening. Grammar will cover the main parts of speech as well as sentence structure. Literature study will include short stories, novels, and poetry. Students will also write letters as well as VOD essays. Writing will encourage problem-solving abilities as well as expand their thinking process by working on various activities such as journals and essays. Accelerated Reader will also be a required class activity.

7TH GRADE READING

7th Grade Reading is a systematic program of instruction aimed at filling in gaps in basic reading skills, while at the same time developing a continuum of instruction to develop reading, vocabulary and comprehension skills. Recreational reading interest is also nurtured through the Accelerated Reader Program. Literary terms and human values are studied through the context and makeup of the narratives and the ensuing discussions.

READ NATURALLY

This class will identify the individual reading levels of students who qualify for the program either by low ITBS scores or teacher referral. Once the student's reading level is established, he/she will work on improving his/her reading fluency and comprehension. The Read Naturally program combines three powerful strategies for improving fluency: teacher modeling, repeated reading, and progress monitoring. A student may test out of this program by completing Level 8. The goal of the Read Naturally program is to improve reading skills so that students will begin to enjoy reading and have greater success in other subject areas.

SCIENCE

7TH GRADE LIFE SCIENCE

Life Science is an introductory course in biology. In this class the students study matter and its composition, the cell and cell processes, genetics, plant and animal systems, classification and ecology.

8TH GRADE PHYSICAL SCIENCE

Physical Science is a branch of science that is concerned with the study of matter and energy in the non-living world. This course includes the study of motion, work, heat, changes in matter, sound, light, electric charges, magnetism, and nuclear energy. The broad coverage of physical science topics develops a sensitive awareness of the interaction of energy and matter and its impact on society.

SOCIAL STUDIES

8TH GRADE AMERICAN HISTORY

The class is a comprehensive survey of the history of the United States from colonial times up to the Civil War era. The course is designed to help the students gain a better understanding of how the American people have used their intelligence, their skills and their ability to adapt to meet the challenges of their times and form our democracy.

7TH GRADE GEOGRAPHY

This class provides the students with an understanding that the environment is made up of physical and cultural features. The students study how the natural environment and people's activities are associated in different continental regions. Map study is included for geographic literacy.

MONTANA HISTORY

One semester class.

This course is a survey of the history of Montana. It will range from the geographic forces that had a part in shaping this great state, the Mesosaurus, our state fossil, fur trappers and explorers, state and local conflicts with Native Americans, and social, economic and political changes up to modern time. It will be the study of the evolution and evaluation of important personalities, periods and trends in the development of the territory and state, ending up with a look to the future.

COMPUTER APPLICATIONS

8th GRADE KEYBOARDING

This is a one semester class.

Keyboarding is designed to teach students all the functions of the keyboard. The students will learn the proper procedures, techniques, and posture to use when typing, the alphabetic, numeric, symbolic, and punctuation keys placement by sight and touch, and correct use of the numeric keypad. The students will develop keyboarding skills and will learn how to initiate and use the primary features of a basic word processing program (MS Windows). Speed, accuracy, and knowledge will be measured and evaluated by drills, exercises, and timings. This class is one semester in length and is required at the 8th grade level.

PHYSICAL EDUCATION

J.H. P.E. (7-8)

Physical education with emphasis on team sports. Students are required to take one semester of PE during each year of Junior High School. Along with team sports, the class focuses on maintaining a good attitude. Health will also be covered. The teacher will determine the subject area.

JUNIOR HIGH ELECTIVES

JH INTRODUCTION TO SPANISH

This is a full year course taught over interactive TV.

At the completion of the course, students will be able to carry on simple conversations and write simple sentences/paragraphs in Spanish. Students will also develop an understanding of Hispanic culture. JH Spanish is offered every other year only.

JR. HIGH SHOP

This is a one semester class.

Junior High Shop class is designed to introduce students to the various areas covered by high school classes. The subjects include woodworking, plastics, electricity, technology, and metalworking.

J.H. CHOIR

This class is offered 2nd semester only.

A group study of all styles of music, including basic theory, harmony, 2-part singing, and the study of various composers.

BEGINNING BAND

This class is offered 1st semester only.

Beginning musicians are encouraged to participate. It is an introduction to the instrumental music group. At the conclusion of this class, the student will be better able to join the J.H. Band.

J.H. BAND

This class may be taken for either one semester or the academic year.

7th and 8th grade instrumental music group. Training for high school band.

Performances include concerts for the community and the opportunity to play with the Pep Band.

J.H. FAMILY CONSUMER SCIENCE

This class is offered 1st semester only.

The course is designed to teach the basics of cooking/preparing simple meals, sewing, personal space/design, caring for children and personal development. Students learn basic life skills with hands on activities.

J.H. ART

This is a one semester class

The major areas of art such as drawing, painting, clay, sculpture, and design are introduced. Art appreciation will be incorporated into the class. The fundamentals presented help to lay a foundation for art classes offered in High School. A class fee will be charged to participants.

J.H. ENRICHMENT

This class is available to students who are on the honor role. Students will be doing weekly assignments involving logic, deductive thinking and other mentally challenging puzzles. Students will also create individual class projects of their own choosing. The projects must involve: 1) Research and learning new skills or knowledge. 2) A creative product. 3) Presentation of product to an audience. This class may be taken for one semester or the full academic year.

JH ENHANCED STUDY HALL

This study hall has been established for students who require additional help in academic subject areas. The supervising teacher will reteach concepts that students do not understand and monitor the completion of classroom assignments. The goal of this program is to help students develop organizational skills, become more accountable for their own work, and improve self-esteem while enhancing their academic learning.

POWDER RIVER COUNTY DISTRICT HIGH SCHOOL

Course Descriptions

MATHEMATICS

ALGEBRA I (8-12)

This course will introduce students to variables, equations, numbers on a line, operations with real numbers, equation and problem solving, introduction to equations of lines using slope and y intercept, operations with polynomials, operations with algebraic fractions, systems of linear equations, properties of exponents, perimeter, area, volume of various geometric shapes, range median mode and mean, factoring, exponential growth, quadratic formula, stem and leaf plot, and box and whisker plots.

****Prerequisite:**

8th Grade: B+ or better in Math 7 or instructor approval.

9th graders may repeat Algebra I if they received a C or lower in 8th grade Algebra I or instructor approval.

C or better in Algebra ½ or General Math.

ALGEBRA II – SAXON (A2s) (Geometry) (9-12)

This course is taking the place of Geometry. A2s covers geometry, but also covers solving equations, graphing lines, multiplication of polynomials, uniform

motion problems, sine, cosine and tangent, direct and inverse variations, quadratic equalities and inequalities, and logarithms.

****Prerequisite:**

C+ or better in Algebra I or instructor approval.

ALGEBRA II – CHICAGO (A2c) (10-12)

The topics covered in this course include basic properties of real numbers, inequalities, absolute value, linear equations, polynomials, rational expressions and irrational and complex numbers. Quadratic equations and functions are discussed as well as the application of topics in word problems. The student is introduced to Trigonometry and the unit circle.

****Prerequisite:**

C+ or better in **both** Algebra I and Algebra II – Saxon (A2s) or instructor approval.

BUSINESS MATH (11-12)

Business math is designed to provide students with the skill to solve basic math problems that everyone must cope with in daily life. This course will prepare the student to be a competent consumer and businessperson in tomorrow's marketplace. Students will receive problem-solving practice on taxes, buying, banking, home and car expenses, insurance and investments, budgeting and basic business concepts.

ADVANCED MATH (11-12)

The course is designed to prepare students for college mathematics courses. Topics discussed throughout the course include: trigonometric functions of acute angles, solution of right triangles, trig identities, Law of Sines, Law of Cosines, inverse trigonometric functions and graphs thereof, analytic geometry of parabola, ellipse, hyperbola, and circles, introduction to common and natural logarithms, and exponential equations involving base e, statistical analysis of single variables, matrices determinants and their use in solving systems of equations, proofs. Use of graphing calculators is encouraged.

****Prerequisite:**

B or better in Algebra II Chicago (A2c) or instructor approval.

CALCULUS (12)

Calculus will provide students with a basic understanding of topics such as limits, derivatives, and integration. Applications to general science, finance, and business are included. Extensive time given to e and $1/n$; exponential and logarithm functions and their derivatives. The first derivative test, second derivative test, and Fundamental Theorems of Calculus are derived and used extensively.

It is arranged for students to receive college credit for this class through Miles Community College with payment of credit fees.

****Prerequisite:**

B or better in Advanced Math or instructor approval.

GENERAL MATH (9-10)

Students will review math concepts covered in upper elementary and junior high school math. This will include a review of number theory, fractions, percents, addition, subtraction, multiplication and division. Students will be introduced to the concepts related to equations and solving algebraic equations. This course is designed for students who are having some difficulty with math concepts taught in junior high school or students who transfer from another school system and do not have the background for Algebra I. This course should prepare students to go into Algebra I or Pre-Algebra.

PRE-ALGEBRA (9-10)

Students will be introduced to concepts related to equations and solving algebraic equations. The students will review math covered in the upper elementary and junior high school. This will include a review of fractions, percents, addition, subtraction, multiplication, and division. This course is designed for students not yet ready for Algebra I because of difficulties with math concepts in the junior high school level. The course is designed to prepare students for Algebra I; however, students will having difficulty with these concepts may take General Math.

SCIENCE

EARTH SCIENCE (9)

An introduction to the science of earth materials and physical and chemical processes in and on and around the earth. Includes the study of minerals, rocks, maps, weathering, erosion, earthquakes, plate tectonics, and astronomy. The class is designed to help the student become aware of the earth's dynamic systems in action around us.

CHEMISTRY (11-12)

Chemistry is the study of matter and the changes that it undergoes. The course includes the study of data analysis, properties and changes in matter, structure of the atom, periodical relationships, chemical bonding, chemical reaction, mass and volume relationships, and gas laws. Laboratory work is an important part of the course. Chemistry is designed for the college bound student. It helps the individual think in an analytical manner.

***Prerequisite:*

Algebra I and two years of science or instructor approval.

PHYSICS (12)

Physics is the study of the natures of matter and energy and how they are related. Topics in the course include mechanics, states of matter, waves and

light, and electricity and magnetism. High school physics prepares the student for more difficult college courses.

****Prerequisite:**

Senior, 3 years of science, Algebra I and A2s (Geometry) or instructor approval.

BIOLOGY (10)

In this class, students study the chemistry of living things, the cell and cell processes, genetics, evolution, and taxonomy. Each area of the course is highlighted by laboratory exercises that develop a better understanding of the topics covered.

ADVANCED BIOLOGY (11-12)

In this class, students study genetics, human anatomy and physiology, and conduct extensive laboratory exercises. The students also complete an individual project in which they develop an experiment to solve a biologically related problem.

****Prerequisite:**

B average in Biology or instructor approval.

SOCIAL SCIENCES

PRINCIPLES OF AMERICAN DEMOCRACY (PAD) (12)

PAD is a study of "The American System of Government." This is from the time of adoption of the constitution to the present. It includes the growth of our nation and the innovative adaptation of the system to modern problems.

AMERICAN HISTORY (11)

The course is a comprehensive survey of the history of the United States from the Civil War period to the present day. The class uses a wide range of disciplines because history is concerned with any and all the past experiences of man, whether these experiences be social, economic, intellectual, cultural, political, military, legal or religious.

WORLD HISTORY (10)

The course traces the development of civilizations in different parts of the world, revealing their uniqueness while recognizing that through contracts with different cultures, people changed and went different directions. This course is designed to introduce the students to some of these different cultures and civilizations.

PSYCHOLOGY (10-12)

Psychology is a college preparatory course in the science of human behavior. It is designed to give the student an understanding and insight as to why people behave the way they do.

SOCIOLOGY (10-12)

Sociology offers a general study of sociology including areas such as socialization, social interaction, social organization, cultural and social change, social institutions, and social problems.

PHYSICAL EDUCATION

PHYSICAL EDUCATION (9-10)

Physical education is a course for freshmen and sophomores with emphasis on lifetime activities. Students will learn to focus on maintaining a certain level of fitness, leadership roles in class, developing a positive attitude toward exercise and various activities and practicing healthy living. Health will also be covered every other year.

WEIGHT TRAINING (9-12)

This class is graded on participation and improvement along with weight training. Anatomy and physiology (body parts) will be covered in a small portion so that the students will know what parts of the body they are utilizing and why.

***Prerequisite:*

Must maintain a grade of "C" or better each semester to be eligible to be in weights class the following semester.

LIFE SPORTS (11-12)

This is a one semester class.

Life Sports education is a course emphasizing lifetime physical activities. Students will be exposed to a variety of different lifetime sports activities. Students will develop an understanding of various life sports through class participation with the focus being on improvement.

***Prerequisite:*

Some activities will be off-campus and parental permission is required. Students may take this class only once.

LANGUAGE ARTS

ENGLISH I (9)

English I will expand on writing, reading and listening. Students will develop their skills through writing by working on essays, journals and research papers in which they will develop their peer editing and revision skills. Students will also work on the major parts of speech for grammar, as well as usage and mechanics. Study of Literature will be based on poems, novels and plays. All students will participate in the Accelerated Reader and take a week long library class.

ENGLISH II (10)

Students will review mechanics, sentence structure, and basic paragraph skills to improve their writing abilities while they continue to consider the writing process as a problem-solving endeavor. Speech will be specifically taught as a separate unit. Literature study will include many periods and styles in an effort to expose students to as broad a literary spectrum as possible while focusing on genre. Students will also continue to participate in the Accelerated Reader Program.

ENGLISH III (11)

Students will further the English skills learned in English I and English II. Grammar, usage and mechanics will be taught in lesson as well as through writing. Students will be introduced to various writers and styles and they will also be required to work on a higher level of thinking when writing or speaking. They will work on a research project and participate with other students in editing and revising. Students will be developing thinking and problem solving skills through classroom activities as well as working on journals and analogies. Students will also be required to participate in Accelerated Reader.

ENGLISH IV (12)

Students will further develop their writing abilities through formal research essays, creative stories, and those practical writing projects applicable to everyday life beyond the classroom. A unit on career development, including planning, writing and speaking skills will be taught, along with a job shadow project. Students will study an assortment of novels, essays, short stories, and plays. There will also be a unit on college research and terminology. Students will continue to participate in the Accelerated Reader Program.

SPANISH I (9-12)

Spanish I is designed for grades 9-12. This is a full year course that is taught over interactive TV. Spanish I offers both spoken and written instruction and reading comprehension in addition to a diversity of cultural materials. Students will be able to carry on a basic conversation in Spanish, write short stories and essays, demonstrate comprehension of readings in Spanish, identify and locate Spanish speaking countries, and develop an understanding of Hispanic culture. Spanish I is offered every other year.

SPANISH II (10-12)

Spanish II is a continuation of the development of the basis skills acquired in Spanish I. This course is a full year course and is taught over interactive TV. Therefore, students must be independent learners and take responsibility for their progress. Students vocabulary will be expanded as well as their understanding of its use of words and grammar. Spanish II is offered every other year.

*****Prerequisite:***

Spanish I

HIGH SCHOOL ENHANCED STUDY HALL (9-12)

This study hall has been established for students who require additional help in academic subject areas. The supervising teacher will reteach concepts that students do not understand and monitor the completion of classroom assignments. The goal of this program is to help students develop organizational skills, become more accountable for their own work, and improve self-esteem while enhancing their academic learning.

COMPUTER APPLICATIONS

Microsoft Word (9-12)

In this class, the students will learn all the most important topics of Microsoft Word, including creating styles, outlines, tables, form letters, mailing labels, integrating Word with other programs, customizing toolbars and templates, creating macros, creating on-screen forms, creating documents such as letters, memos, reports, minutes, schedules, etc., drawing watermarks and 3-D objects. The students will also continue to improve and develop their keyboarding and basic word processing skills by taking 5-minute paragraph and 30-minute production timings. This class is required. The class will be one semester in length.

***Prerequisite:*

Keyboarding

Microsoft Excel (9-12)

The students in this class will learn the most important components of Excel, including creating, editing, and formatting worksheets and charts, working with Excel lists and pivot tables, integrating worksheet data with various programs, working with multiple worksheets, one- and two- variable input tables, solving and analyzing data, and importing and exporting data. This class is required. The class will be one semester in length.

***Prerequisite:*

Keyboarding

Microsoft PowerPoint (10-12)

This class will teach the students to use a design template and auto layouts to create a presentation, use outline view and clip art to create a slide show, use embedded visuals to enhance a slide show, create a presentation using interactive documents, create a self-running presentation using animation effects, and presenting presentation to an audience such as classmates, elementary students, community members, various clubs and organizations, etc. The class will be one semester in length.

***Prerequisite:*

Keyboarding, Microsoft Word and Microsoft Excel

Microsoft Access (10-12)

The Microsoft Access class will involve learning the basics of Access, including creating and maintaining database tables, defining table relationships, creating, running, and saving queries, sorting and filtering records, creating and customizing forms and reports.. The class will be one semester in length.

****Prerequisite:**

Keyboarding, Microsoft Word and Microsoft Excel

Desktop Publishing (11-12)

In this class, the students will use various desktop publishing features and programs to create and enhance letters, letterheads, logos, memos, reports, forms, resumes, invitations, announcements, flyers, news releases, advertisements, agendas, conference programs, brochures, menus, and newsletters. The class will be one semester in length.

****Prerequisite:**

Keyboarding, Microsoft Word and Microsoft Excel

Web Page Design (11-12)

This class will involve the students learning to design and maintain a web site. The primary purpose of this class is to create and maintain the web site for PRCDHS. Students must be able to work together as a team. The course uses Adobe GoLive software as well as additional software on an “as needed” basis. The primary instruction is self-directed with lessons in *html* and *Classroom in a Book* providing structure into the GoLive Software.

****Prerequisite:**

Due to the nature of the class, instructor approval is required.

This class has a limited enrollment of 5 students.

Independent Study/Computer Applications (11-12)

This class will be self-directed with the students using all the information they have learned and acquired thus far to complete a course outline and assessment that has been mutually approved between the instructor and the student. The students can use a variety of software/hardware to complete their course study. This class will be offered at the Junior/Senior level as an elective to only a select number (no more than 10) of students who meet the necessary requirements, and who have instructor approval. The class can be one semester or a full year in length.

***REQUIREMENTS**-Successful completion of Keyboarding, Microsoft Word, and Microsoft Excel computer classes maintaining at least a B+ (3.33) grade point average. Prior to enrolling in the class, the students will complete a course outline showing their intention of study and assessment criteria. The students must also have **instructor approval by interview and presentation of planned course accomplishments.**

INTRODUCTION TO COMPUTER PROGRAMMING (10-12)

This course is designed as an introduction using the C++ language to teach programming concepts. Programmers write the instructions that enable a computer to carry out a single task or a group of tasks. Students will learn how to plan and create well-structured programs and problem-solving techniques. The course will be hands-on as well as lecture oriented. Students will also be exposed to the history of computers, theory of different software applications, and some troubleshooting of computer hardware. Students taking this course will generally be interested in a computer science or engineering career. Students must have successfully completed one year of computer applications.

****Prerequisite:**

One year computer and Algebra II or teacher approval.

COMPUTER PROGRAMMING II (11-12)

This course will be offered as an independent learning course to students who have completed Introduction to Programming. Students will teach themselves Visual Basic. The intent of this course is to allow students to learn another programming language that involves the “visual” aspect of programming. Students must have instructor approval as well as successful completion of Introduction to Programming. Students will be required to sign a contract with regards to class expectations.

****Prerequisite:**

Introduction to Programming

COMPUTER PROGRAMMING III (12)

This course will be offered as an independent learning course to students who have successfully completed Introduction to Programming and Programming II. Students and instructor will agree upon a course of individual study which may include college course work. Areas of possible interest include Javascript, CGI, JSP, and Java for web programming, XML and CSS for webpage design, and Perl and SQL as additional programming languages. Students will be required to sign a contract with regards to class expectations.

****Prerequisite:**

Introduction to Programming and Computer Programming II, AND instructor approval

TRAFFIC EDUCATION

DRIVERS EDUCATION (9)

Traffic safety education is for everyone, but students should be 14 1/2 years old when they enter the program. This class is one semester. The program cost is \$65.00 for each student. The course will have two distinct parts: driving and classroom with work sheets, films, and field trips, VCR tapes, alcohol and drug education, speakers and skill of behind the wheel driving (6 hours minimum).

The students will be required to drive at night and to Miles City in the driver education car with the instructor.

BUSINESS

ACCOUNTING I (9-12)

Accounting I is a study of fundamental concepts and principles of the accounting cycle. A student who implies himself diligently while taking this course will learn the double-entry system, which he or she can use in keeping personal or business books. It is strongly recommended for any student.

ACCOUNTING II (10-12)

Accounting II is a continuation of a study of accounting principles. Attention is devoted to partnership and corporations. Students will gain extensive experiences in computerized accounting. This course is strongly recommended for any student who intends to major in any business area in college.

***Prerequisite:*

Accounting I

PRACTICAL ARTS

FAMILY AND CONSUMER SCIENCE

FAMILY AND CONSUMER SCIENCE (9-12)

This course is designed for the student who is interested in a sampling of all the creative options in FCS. The areas of study will be in foods and nutrition, energy, consumer education, housing and design, family life, child development and care, preschool practicum, personal development, finances, clothing selection and construction, and quilting. This course offers many hands on activities.

CULINARY ARTS (9-12)

This advanced course is designed for students who have an interest in the areas of food and food management. The course covers various skills in cooking and baking. Included will be cooking techniques in the areas of stock/sauces, soup/appetizers, poultry, meat, pastas, fruit/vegetables, garnishes, baking techniques, breads, and desserts. This class will prepare students for future challenges of cooking for themselves and a family, as well as look at career pathways in food service.

INDUSTRIAL ARTS and TECHNOLOGY

INTRODUCTION TO TECHNOLOGY (9-12)

Introduction to Technology is a comprehensive action-based curriculum that teaches students to understand, use, and control technology. The curriculum covers the development of technology and its effect on people, the environment, and society. Students learn how to adjust to change, to deal with the forces that influence their future, and to participate in controlling their future. In the classroom, students develop insights into the application of technology concepts, processes, and systems.

DRAFTING (11-12)

Drafting is designed to introduce the fundamentals of drafting to the beginning student. Emphasis will be placed on accuracy as well as creativity. The student will examine various areas of the drafting field and gain valuable insights into problem solving as well as gaining the ability to turn ideas into reality through the drafting process. Upon completion of this course, students will be prepared to enter technical drawing courses at the college or trade school level. Senior students have priority for the 5 spaces in this course.

WOODS I (9-12)

Woodworking I class is designed to provide students with an introductory experience in woodworking. Subjects covered include wood identification and characteristics, hand and machine tool use, safety and project design as well as construction. There will be time allowed for independent project work.

WOODS II (10-12)

Woodworking II class is designed to provide previous woodworking students with advanced experience in woodworking. Topics include wood characteristics, advanced problem in design and construction and special machine tool operations. Extensive time will be allowed for independent project work.

*****Prerequisite:***

No less than a grade of C in Woods I.

WOODS III & IV (11-12)

Woods III and IV is designed to give students advanced training in woodworking beyond Woods II

*****Prerequisite:***

No less than a grade of C in Woods I and II.

AGRICULTURAL EDUCATION

AG ED I (9-12)

This class is for students interested in agriculture and FFA. All students finishing this class will be eligible for the Green Hand Degree in FFA. Beginning skills in animal science, metals, woods, tool conditioning, hand tools, plant, plant science, and Ag business will be covered.

AG ED II (10-12)

This course will allow students to further their knowledge in agriculture and FFA. Students may be eligible for Chapter Farmer Degrees in FFA during Ag Ed I or Ag Ed II. This class will cover animal selection, livestock production management, common diseases of livestock, arc welding, soil science, plant growth, and small gas engines.

***Prerequisite:*

Ag Ed I

AG ED III and IV (11-12)

For students wishing to further their knowledge in agriculture and FFA. This is a combined class, which means units in Ag Ed III are taught one year and units in Ag Ed IV are taught the next. Units in Ag Ed III include building construction, electricity, plumbing, and concrete work. Units in Ag Ed IV include farm and ranch management, micro computing and project construction.

***Prerequisite:*

Ag Ed I and II and III

AGRICULTURAL MECHANICS I (9-12)

This class will look into the construction and operation of power sources. Theory of operations of two and four cycle engines, use of precision measuring tools, and tear down and rebuild of small engines will be skills involved with the first part of the class. Large gasoline engines will be covered the second part of class with time allowed for simple rebuilds. Separate mechanical systems of the engine and the vehicle will also be covered.

AGRICULTURAL MECHANICS II (10-12)

This class will review the contents of Ag. Mechanics I but will allow students to become familiar with the more technical side of mechanics. Some of the areas to be covered are: head rebuilding, computer control systems and use of computer scanning tools, automatic transmissions, and general theory and construction of air conditioning systems.

***Prerequisite:*

Ag Mechanics I

AGRICULTURAL WELDING I (10-12)

This class is designed to introduce the student to the fundamentals of welding using the arc and oxy-acetylene welders. Assigned welds will be given in the flat, horizontal, vertical, and overhead positions. Each section, arc or acetylene, will be one semester long. Each section will switch at semester. Upon completion of assigned welds small project will be allowed. \$20 shop fee required.

ADVANCED AGRICULTURAL WELDING (11-12)

This class is offered to students who have successfully completed Agricultural Welding I who wish to improve their welding skills and explore other methods of welding. Basic welds in arc and oxy-acetylene will be reviewed and introduction to MIG and TIG welding will be done. Project construction may be allowed if time and space are available. \$20 shop fee required.

***Prerequisite:*

Ag Welding I

FINE ARTS

ART I (9-12)

Art I is a full year exploratory course involving 2 and 3 dimensional art forms. Students will work in the areas of drawing, painting, ceramics, sculpture, and computer artwork. Independent and class critiques as well as art appreciation will be integral parts of the class. A class fee will be charged to participating students.

ADVANCED ART (ART II, ART III, ART IV) (10-12)

This is a full year art class for students who have taken Art I and ceramics. Students will build upon concepts developed in previous art classes in the areas of drawing, painting, ceramics, and sculpture. Class critiques and incorporation of art history will be an important part of the class. A class fee will be required of the participants.

***Prerequisite:* Art I

CERAMICS (9-12)

Ceramics is a one-year class involving the use of clay as a sculptural art form. Students will learn and use basic hand-building techniques and the potter's wheel to create ceramic projects. An overview of Art History as well as individual and class critiques will be an integral part of the class. A class fee will be charged to participants.

PHOTO EDITING (12)

Students will be introduced to the basics of photography. Students will work with 35mm cameras, digital still photography, video photography and computerized video-editing using Premiere Pro software. Students will also be introduced to basic darkroom development using 35mm film. Students should have access to a 35mm camera. Edited projects such as the senior video, which is presented during the senior graduation ceremony, will be created during the class. Because of limited space and materials, a limit of 9 seniors will be allowed to take this class. A class fee will be required.

HIGH SCHOOL ENRICHMENT (9-12)

This class is available to students who are on the honor role. Students will be doing weekly assignments involving logic, deductive thinking and other mentally challenging activities. Students will also create individual class projects of their own choosing. This project must involve research and learning new skills or knowledge, a creative product, and presentation of the product to an audience.

MUSIC

CHOIR (9-12)

A group study of music, representing styles from Classical to Contemporary. Emphasis is based on memorization and concert performances, as well as individual and group work. Enrollment in this class includes group and/or solo performances in District Music Festival. This class may be taken more than once.

BAND (9-12)

Advanced instrumental group for grades 9-12. Performances include Pep Band for many sporting events, musical concerts for the community, and solo and ensemble participation at the district and state level. This class may be taken more than once.