
Catalog of Course Descriptions

English

Course# 1 English 9 **2 Credits**
Grades 9 **To** 9 **Prerequisite** English 8 **Course Length** Year

This course is designed as a general review of grammar, mechanics, and capitalization. Elements of short story, poetry, novel, drama, and nonfiction will be introduced. Writing, both formal and creative, will be part of this class. The research paper is the one writing assignment that is a requirement in order to successfully complete the course. A variety of speaking activities will also be experienced. Generally, this class is an exposure to all the language arts rather than a focused look at any one of them.

Course# 2 English 10 **2 Credits**
Grades 10 **To** 10 **Prerequisite** English 9 **Course Length** Year

This course is designed to give sophomore students a foundation in the basic elements of good literature. Students learn to read for more than just the story. They analyze characters, study literary techniques, and discuss authors' purposes. Through thinking, talking, and writing about ideas in literature, students are led to understand that literature is the art of revealing truth about life. This course includes short stories, poetry, drama, and novels. Student writing is a part of the work in this course and is always done with relevance to the type of literature being studied. Several informal speaking activities will also be included. In addition, public speaking is included in this course with demonstration, information, and persuasive speaking activities. Students are also required to review the elements of grammar and correct usage. In addition, students will be given an intensive review of the basic 3 and/or 5 paragraph essay prior to the taking of the Basic Standards Writing Test.

Course# 3 Public Speaking **1 Credits**
Grades 11 **To** 12 **Prerequisite** English 9, English 10 or Mastery of English **Course Length** Sem

Looking for a class where you can learn to ease the anxiety you experience when standing in front of an audience? Through a variety of realistic public speaking experiences, students will learn how to effectively manage the rush of adrenalin, analyze an audience, select topics they can handle, organize their material, manage their voices and gestures, construct effective introductions and conclusions, and handle visual aids easily. This class can provide the confidence so many are lacking when faced with a presentation in front of a group.

Course# 4 Contemporary Literature **1 Credits**
Grades 11 **To** 12 **Prerequisite** English 9, English 10 **Course Length** Sem

This literature class will focus primarily on more contemporary writers, including short stories, poetry, drama, nonfiction, and the novel. Writing projects will be done in conjunction with the literature read. As in all English classes, an emphasis will be placed on developing our skills in the various areas of communication.

Social Studies

Course# 21 World Geography ***2 Credits***

Grades 9 ***To*** 9 ***Prerequisite*** required ***Course Length*** Year

9th Grade World Geography

Course Covers:

Review of Themes in Geography 5 Themes of Geography

United States and North America- Review States, landforms, climates, of U.S. Neighboring political units.

Europe; Asia; Africa; -- study of landforms, climate, people and cultural backgrounds/ history of the Continents.

Students will be expected to learn the present countries names, the landforms, the climate and major features, the economic importance of, and the political interests along with some history of the countries in these continents. Students need to understand the diversity and the interdependence of the world. Learning about the different cultures, geographic features and people of the world will benefit students in understanding their history, the connectedness of today's world, and prepare them to enter more advanced courses in the Social area.

Course# 22 American History I ***1 Credits***

Grades 10 ***To*** 10 ***Prerequisite*** required ***Course Length*** Sem

This survey class of American History will emphasize the importance of political and economic policy in the United States. The following units will be covered: 1. Review of Colonial times. 2. Civil War 3. The Wild West 4. Industrial Revolution and its effects 5. Progressive Era 6. The Emergence of America as a world power 7. World War I

Course# 23 American History II ***1 Credits***

Grades 10 ***To*** 10 ***Prerequisite*** American History I ***Course Length*** Sem

This survey class of American History will emphasize the importance of political and economic policy in the United States. The following units will be covered: 1. The Roaring Twenties 2. Depression and World War II 3. Cold War 4. Vietnam War and Civil Rights Movement 5. End of the Cold War 6. The U.S. and the Middle East

Course# 24 Western Civilization ***1 Credits***

Grades 11 ***To*** 11 ***Prerequisite*** ***Course Length*** Sem

Review of the history of Western Civilizations and how our culture evolved. Topics include the following: 1. Early man and ancient civilization 2. Greek and Roman Empire 3. Middle Ages, Renaissance, and Reformation 4. Three Great Religions 5. Modern Times

Course# 30 College Psychology

1 *Credits*

Grades 12 *To* 12 *Prerequisite*

Course Length Sem

College Psychology is an elective class. A student will receive three college credits from Southwest State University at Marshall, MN and one and a half high school credits. This class will go an overview of the history of psychology and the scope of human behavior and mental processes. Topics covered will include psychological research, learning (conditioning), the many effects on consciousness, human development, stress, personality theories, psychological disorders and their treatment.

Math

Course# 36 Pre-Algebra **2 Credits**

Grades 9 **To** 10 **Prerequisite** none **Course Length** Year

The course includes basic operations with whole numbers, decimals and fractions. Other areas included are geometry, algebra, percents, metric measurements, beginning statistics and probability and the study of graphs. Real life applications are explored in each content area.

Course# 37 Algebra I **2 Credits**

Grades 9 **To** 12 **Prerequisite** Pre-Algebra **Course Length** Year

The course includes work with positive and negative numbers and their relationship to variables, equations, inequalities, factoring, fractions, decimals and application problems. This course will reflect a preparation for continued studies in math as well as an application to real life.

Course# 38 Applied Math II **2 Credits**

Grades 10 **To** 12 **Prerequisite** Pre-Algebra or Applied Math I **Course Length** Year

This course combines mathematics topics in an integrated approach. It is designed for students who have had more difficulty succeeding in the traditional mathematics classroom.

The focus of the course is to provide the opportunity for students to successfully learn various forms of mathematics. These forms include statistics, algebra, geometry, probability, equations, functions, and logic.

Course# 39 Applied Math III **2 Credits**

Grades 11 **To** 12 **Prerequisite** Applied Math II, Adv. Alg, or Teacher approval **Course Length** Year

This course combines mathematics topics in an integrated approach. It is designed for students who have had more difficulty succeeding in the traditional mathematics classroom.

The focus of the course is to provide the opportunity for students to successfully learn various forms of mathematics. These forms include statistics, algebra, geometry, logic, measurement, probability, equations, transformations, circle properties, quadratics, functions, and trigonometry.

Course# 40 Advanced Algebra 9 **2 Credits**

Grades 9 **To** 9 **Prerequisite** Algebra 8 **Course Length** Year

This course provides a continuation of the basic algebraic concepts learned in Algebra I. The course is faster-paced and more in-depth than the regular Advanced Algebra course. This course will expand on algebra concepts both in theory and application. In addition to the study of the basic algebraic concepts of simplifying algebraic expressions and solving algebra equations and inequalities, the students will study rational and irrational numbers, complex numbers, functions and relations, conic sections, progressions and logarithms.

Course# 46 Applied Math I **2 Credits**
Grades 9 **To** 10 **Prerequisite** Pre-Algebra or teacher approval **Course Length** Year

This course combines mathematics topics in an integrated approach. It is designed for students who have had more difficulty succeeding in the traditional mathematics classroom.

The focus of the course is to provide the opportunity for students to successfully learn various forms of mathematics. These forms include statistics, algebra, geometry, probability, equations, functions, and logic.

Course# 47 Math of Finance **1 Credits**
Grades 11 **To** 12 **Prerequisite** Algebra I or Applied Math II **Course Length** Sem

This course will enable the students to explore the use of mathematics in the financial world. Students will use a variety of media, computers, and community speakers to understand various aspects of the mathematics of finance. Some topics addressed will be personal finance, investments, checking accounts, credit cards, insurance, and starting a business. Students will be expected to be able to evaluate formulas and to model applications algebraically using equations and graphs.

Course# 48 Pre-Calculus **2 Credits**
Grades 12 **To** 12 **Prerequisite** Trigonometry, Statistics or permission **Course Length** Year

Pre-calculus is an extension of the concepts learned in algebra and geometry as they apply to more advanced mathematical topics. This course will provide the students an opportunity to fully develop their algebraic skills and to develop strategies for applying those skills to solving problems.

This course will review concepts of functions from advanced algebra and will review concepts learned in Trigonometry. Other topics that will be studied are vectors, series and sequences, combinatorics and probability, limits, derivatives and integrals.

This course will provide an excellent opportunity for the student to bridge the gap between high school math and college math. Those students who do well in this course should be ready for college calculus.

*College credit may be available in this course through MN West at Worthington.

Course# 70 **Biology II** **2 Credits**
Grades 10 **To** 12 **Prerequisite** Biology I **Course Length** Year

Biology II is a year long course designed to expand on the foundation built in Biology I. The following topics will be the focus of this course:

I. Cellular Biology: We will discuss how biology relates to chemistry, review the cell's structure and function, explore how the cell creates energy, and examine how the cell divides to create specialization in living organisms.

II. Genetics: We will examine the mechanisms of genetics, including the role of DNA and RNA. We will also discuss applications of genetics, such as genetic engineering, to see how these technologies may impact our future.

III. Evolution: We will examine the process of natural selection and discuss the mechanisms that lead to new species. We will also explore how evolution relates to biodiversity.

IV. Ecology: We will discuss energy and nutrients and how they cycle through the biosphere. We will also explore population dynamics in ecosystems and examine how humans are impacting the environment.

V. Animal Behavior: We will explore how animals perceive and respond to their environments, as well as examine how and why some animal species form more complex societies.

Course# 71 **Anatomy & Physiology** **2 Credits**
Grades 11 **To** 12 **Prerequisite** Biology **Course Length** Year

This course is designed to familiarize the student with basic human structures and functions. It is geared toward students entering into the medical or advanced scientific fields.

Students will learn how the human body is organized and how this organization helps it to function as a whole unit.

Topics covered will include basic anatomical terminology and an in depth study of all of the eleven systems within the body. The course will be enhanced with a fetal pig dissection and a trip to the SDSU anatomy lab to view their cadavers.

Course# 72 **Environmental Science** **2 Credits**
Grades 10 **To** 12 **Prerequisite** Physical Science **Course Length** Year

This is an introductory course to Environmental Science. Some of the topics may include ecosystems and biomes of the world, water pollution, air pollution, Global Warming, and how you as a human are affected by the number of people on Earth. This is meant to give you a background on the environment so you can decide for yourself how issues concerning the environment should be dealt with.

There are several labs and field activities that will be completed throughout the year as well as lecture. Field trips to the Jackson Water Plant, Great Plains Zoo, and the Ecology bus tour have been taken in past years.

Health/Physical Education

Course# 85 Physical Education 9 **1 Credits**

Grades 9 *To* 9 **Prerequisite** **Course Length** Year

Through various activities, the focus of this class is increasing the student's level of fitness. A major portion of the activities will emphasize lifetime fitness and maintaining a healthy lifestyle focusing on team sports and activities. Units include, but are not limited to: softball, volleyball, fitness, swimming, basketball, badminton, floor hockey, soccer, track and field, gymnastics, flag football, and weight training. Each student is given a National Fitness Test at the beginning and end of the year. The objective of physical education is to provide each student with the knowledge and skills necessary to participate in organized physical activities throughout their lifetime.

Course# 86 Physical Education 10 **1 Credits**

Grades 10 *To* 10 **Prerequisite** **Course Length** Year

Through various activities, the focus of this class is increasing the student's level of fitness. A major portion of the activities will emphasize lifetime fitness and maintaining a healthy lifestyle focusing on individual and dual sports and activities. Units include, but are not limited to, fitness, swimming, archery, cycling, pickleball, tennis, inline skating, weight training and golf. Each student is given a National Fitness test at the beginning and end of the year. The objective of physical education is to provide each student with the knowledge and skills necessary to participate in organized physical activities throughout their lifetime.

Course# 87 Health 9 **1 Credits**

Grades 9 *To* 9 **Prerequisite** **Course Length** Year

Our 1997 text, "Health and Wellness" helps students examine their lifestyles, select goals and make plans to achieve and maintain a healthy lifestyle. The following topics will be covered: tobacco, alcohol, and drugs, consumer health and health agencies, nutritional topics, creating their own physical fitness plan, mental health and illnesses, and aging, dying, and death. The text will be supplemented with materials from various health organizations and outside resources. Students are required to bring a notebook, pencil, and folder to class each day.

Course# 88 Health 10 **1 Credits**

Grades 10 *To* 10 **Prerequisite** **Course Length** Year

Our 1997 text, "Health and Wellness" helps students examine their lifestyles, select goals and make plans to achieve and maintain a healthy lifestyle. The following topics will be covered: first aid, CPR, muscular system, skeletal system, circulatory and respiratory system, digestive system, endocrine system, integumentary system, and sexuality. The text will be supplemented with materials from various health organizations and outside resources. The students are required to bring a notebook, pencil, and folder to class each day.

Agriculture

Course# 194 Exploring Agriculture **2 Credits**
Grades 9 To 12 **Prerequisite** **Course Length** Year

This course includes exploration and basic introduction to the many areas of our nation's largest industry, agriculture and agribusiness. Units of study include leadership development, public relation skills, parliamentary procedure, FFA opportunities & history, public speaking, animal genetics and reproduction. Internet use and agriculture web sites will be pointed out for future resource information. Guest speakers, field trips, and numerous lab activities will enhance learning in all areas. During the second semester we will continue to explore the many areas of our nation's largest industry, agriculture and agribusiness. This course will continue to build on the leadership and public speaking skills from the previous semester. Other units of study will include animal and livestock care that will be specie specific, along with live and paper evaluation, wildlife and forestry management, and horticulture (wreath design and lawn care). All units will be supplemented with either lab activities, field trips, or guest speakers. A portion of the semester will be spent in the shop covering safety, tool ID, and carpentry skills. Students will learn how to read plans, operate machines, and construct a wood project

Course# 196 Agriscience I **1 Credits**
Grades 10 To 12 **Prerequisite** **Course Length** Sem

This course is a study of the knowledge and skills needed in a vast array of areas within the agribusiness, agriscience, and agricultural industries. These areas include leadership skill, soil science, legal land description, and land surveying and leveling. A brief unit on farm safety will also be covered. Field trips and lab activities will help reinforce what is taught in the classroom. A good portion of the semester will be spent learning metal properties, shop safety, and set-up. Included will be oxyacetylene welding, arc welding, wire feed welding, and plasma cutting.

Course# 197 Agriscience and Food Science **1 Credits**
Grades 10 To 12 **Prerequisite** **Course Length** Sem

Learning about value-added products will be the start of this Food Science focused semester. Included will be many lab activities such as drying fruit, taste-testing many of the value-added products that are on the market today, creating new food products by substituting other agriculture products, and distinguishing between different scents. Meat Science will also be covered, and the students will once again test their taste buds when they try to distinguish between species and different cuts of meat.

Course# 198 Agriculture Sales **1 Credits**
Grades 11 To 12 **Prerequisite** **Course Length** Sem

In this class students will explore the areas of marketing, business structures, advertising, the use of the media (radio, newspaper, television, and the Internet), job interview skills, and human relation skills. The students will create their own products and businesses as well as the needed advertising techniques to market both of these, including a PowerPoint presentation. The students will also go through a mock interview by community members in the unit on resume building and job interviewing. Field trips and guest speakers will be used when appropriate.

Course# 208 Vet Science - Small Animal

1 *Credits*

Grades 10 *To* 12 *Prerequisite*

Course Length Sem

A course dealing with the care and handling, selection and breeding, and special issues relating to companion animals. Students enrolled in this course will have the opportunity to learn through "hands-on" activities relating to each of the animals covered in this course. These animals include dogs, cats, horses, birds, fish, small mammals, and reptiles. Specific activities include training, feeding, toenail clipping, teeth care, and general care and health maintenance of the animal. Units in animal rights/welfare and career exploration will also be included. This is an excellent course for pet owners and for students interested in pursuing a career in veterinary medicine or other animal careers. Field trips and guest speakers will be used when appropriate.

OFFERED ONLY ON ODD NUMBER YEARS

Art

Course# 55 Fine Arts I **1 Credits**

Grades 9 **To** 12 **Prerequisite** **Course Length** Sem

Fine Art I is an elective course for students in grades 9-12. Students will understand the differences in art styles and be able to distinguish them from each other. They will be exposed to multi-media such as drawing, painting, airbrushing, and artistic design as well as learning to use all of the elements and principles of art. Students will need \$15 for canvas stretchers.

Course# 56 Fine Arts II **1 Credits**

Grades 9 **To** 12 **Prerequisite** Fine Arts I **Course Length** Sem

Students will expand on their skills that were developed in Fine Arts I by becoming more focused on their own personal styles. Significant art styles will be presented to the class and each student will be encouraged to create art with their own personal style in mind. Students will need \$15 for canvas and stretchers.

Course# 57 Advanced Art **1 Credits**

Grades 10 **To** 12 **Prerequisite** FINE ARTS I & II **Course Length** Sem

Advanced Art is a class for students who have completed Fine Arts I and II. Advanced Art students will work independently on their own original art work and each student will have an exhibit at the end of the semester that will be displayed to the public by local businesses. Students are required to complete a minimum of 16 pieces of artwork during the semester. Students will need \$15 for canvas and stretchers.

Course# 58 Ceramics **1 Credits**

Grades 10 **To** 12 **Prerequisite** **Course Length** Sem

Ceramics is a class open to students in grades 10-12. In this class the students will increase their knowledge and understanding of what clay is, why it's used, and it's uses in society. They will also gain an appreciation for functional ceramic art, and be able to identify clay types, and styles of pottery. An important part of this class will be understanding all art terms and using them correctly. Students will use all tools and equipment properly while creating pottery. The class will have a number of projects created from clay. Earthenware, stoneware, and porcelain clay will be used. There will be a 15.00 lab fee to pay for clay and glazes.

Course# 61 Advanced Ceramics **1 Credits**

Grades 11 **To** 12 **Prerequisite** Ceramics **Course Length** Sem

This class will be a continuation of the study of ceramics. Students will be required to create projects that show their skill on a more advanced and technical level. Each class member will complete 10 projects a quarter ranging from handmade to wheel thrown pottery that reflects their own style and personality.

Business Education

Course# 120 Accounting I **2 Credits**
Grades 10 **To** 12 **Prerequisite** NONE **Course Length** Year

There are three main reasons to take this course: personal use, business use, and to prepare for a career in ANY business field. Typically, accounting is a required course at colleges for any business-related degree. This course will give you a jump start on your education!

Will you have the proper records when going into a bank for a personal loan? Will you have the proper records when the IRS audits? Will you know how to keep accurate personal records that will keep you out of financial hardships? This course prepares you for the personal uses of accounting.

As an owner or manager of a business, you will need to keep accurate records to make good financial decisions about the future of the business. All businesses need to keep proper accounting records.

You will learn the accounting principles and process in order to keep orderly records of a business' financial activities. Students will go through Sole Proprietorship, Partnership, and Corporation accounting cycles. This course lays groundwork for a future career in the accounting field or for personal use. Today, there is a strong need for people in accounting fields. This course will give you an idea if this is a career path for you!

This course qualifies you to be a member of Business Professionals of America (BPA) and the opportunity to compete at Regional, State, and National levels.

You may be able to receive 3 FREE college credits for this course. This can save you money while you are in college, and may shorten the time to complete your program. See instructor for more details.

Course# 122 Business Law **1 Credits**
Grades 9 **To** 12 **Prerequisite** NONE **Course Length** Sem

Do you know what to do if you think you are being taken advantage of as a consumer? Did you know there are many laws that must be followed when operating a business? Do you fully understand all of the rights and obligations that will occur in your life? There are specific requirements that contracts must follow to be legal and enforceable. Do you know what these are? Are you aware of laws pertaining to minors?

This course provides you with a basic knowledge of the legal environment in which a business operates and gives the student a knowledge of legal principles that will enhance his/her performance as a worker and citizen.

Students may use cases in a mock trial format and explore previous cases to further this understanding and the legal environment.

This course qualifies you to be a member of Business Professionals of America (BPA) and the opportunity to compete at Regional, State, and National levels.

Computer

Course# 128 Computer Applications

1 *Credits*

Grades 9 To 12 *Prerequisite* NONE

Course Length Sem

Computer Applications I is an important course for all students. Computer skills are a basic necessity in every job. Your other classes require computer skills, as well as classes you may take in college. Many times at the college level it is assumed that you have the skills needed for an assignment, and computer instruction may be limited.

You will be learning and using Microsoft Word, Access, Excel, and PowerPoint at the basic level. Even if you have a background using these programs, there will be plenty for you to learn!

This course qualifies you to be a member of Business Professionals of America (BPA) and the opportunity to compete at Regional, State, and National levels.

You may be able to receive 3 FREE college credits for this course. This can save you money while you are in college, and may shorten the time to complete your program. See instructor for more details.

Foreign Language

Course# 75 Spanish I *2 Credits*

Grades 9 *To* 12 *Prerequisite* None *Course Length* Year

Spanish I students learn a basic Spanish in the four communication skills of listening, speaking, reading and writing. They will be able to satisfy basic personal and practical needs. Students learn the basic structures of Spanish grammar in a meaningful, communicative context. Vocabulary is learned through themes such as: school, passtimes, friends, family, clothing, and food. Cultural study introduces students to the importance of the Spanish language in the United States and the world. At the end of this course, students will be able to communicate in basic Spanish using key memorized phrases and basic statements.

Course# 76 Spanish II *2 Credits*

Grades 10 *To* 12 *Prerequisite* Spanish I *Course Length* Year

The 2nd year Spanish course expands on each of the four skills developed in Spanish. Communication is emphasized through learning vocabulary and grammar in common themes of everyday life, such as: entertainment, shopping, school, and health. The second year continues the study of essential grammatical structures and tenses of the language. Students also read simple authentic texts (stories, poems, advertisements) to reinforce grammar structures, vocabulary, and develop comprehension skills. An increased understanding of Hispanic culture is also an goal of this course.

Course# 77 Spanish III (first semester) *1 Credits*

Grades 11 *To* 12 *Prerequisite* Spanish II *Course Length* Sem

Spanish III provides a review of the language structures developed in the first years of language instruction, widening their application to a variety of situations and texts. Students continue to work on improving their communications skills. They will continue reading authentic texts and will write short compositions with increasing control of the present, past and future tenses.

Content may vary depending on which students enroll in the class and if it is their first or second semester of Spanish III.

Several projects will give students the opportunity to learn more about Spanish-speaking cultures, history, and literature. A field trip may be included as part of the Spanish III class, once a year. Proficiency levels attained in each language skill will depend on the individual ability of the student.

IMPORTANT!! STUDENTS MAY ENROLL IN 1 OR 2 SEMESTERS OF SPANISH III, IN ANY ORDER DURING THEIR JUNIOR OR SENIOR YEARS.

Course# 78 Spanish III (second semester) **1 Credits**
Grades 11 **To** 12 **Prerequisite** Spanish II **Course Length** Sem

Spanish III provides a review of the language structures developed in the first years of language instruction, widening their application to a variety of situations and texts. Students continue to work on improving their conversational skills about topics of interest. They will continue reading authentic texts and will write short compositions with increasing control of the present, past and future tenses. Content may vary depending on which students enroll in the class and if it is their first or second semester of Spanish III.

Several projects will give students the opportunity to learn more about Spanish-speaking cultures, history, and literature. A field trip may be part of the Spanish III curriculum, once a year. Proficiency levels attained in each language skill will depend on the individual ability of the student.

IMPORTANT: Students may enroll in one or two semesters of Spanish III, in any order, during their Junior and Senior years.

Course# 79 German I **2 Credits**
Grades 9 **To** 12 **Prerequisite** None **Course Length** Year

German I is an introduction to the German language and the culture and people of the German speaking countries. The two main goals are to enable students to use German and develop a sensitive appreciation of the German-speaking world. Students learn the basic grammar structures of German in a meaningful, communicative context. The student will develop a basic proficiency in the four communication skills of listening, speaking, reading and writing in order to satisfy personal and practical needs. Culture is integrated through themes such as: school, family, holidays, food and pasttimes.

Course# 80 German II **2 Credits**
Grades 10 **To** 12 **Prerequisite** German I **Course Length** Year

German II is a continuing study of the German language and culture of the German-speaking countries. Culture is integrated through themes such as: travel, food, shopping and entertainment. Studying culture while learning a second language helps students become aware of the diversity of peoples and customs throughout the world. Emphasis on student involvement is continued to build the student's confidence and skill in the use of the language in all four skill areas. The student will read short, authentic texts (stories, advertisements, articles) in order to reinforce the four communication skills and develop comprehension skills.

Industrial Technology

Course# 172 CADD Technology *1 Credits*
Grades 9 *To* 12 *Prerequisite* None *Course Length* Sem

CADD Technology is an introductory course in drafting techniques and skills. CADD focuses on 3 dimensional drafting which is used in both mechanical and architectural drafting fields. Drafting symbols and terminology are also covered. Basic drafting skills are taught with students doing hand sketches and drawing prior to designing parts on the computer. The students will work with PTC Pro/Engineer Wildfire Schools addition software to learn the mechanical side of drafting and design. (This is the same CAD software used at AGCO). Students will use a software program called Chief Architect to learn how to design and draft architectural drawing. Residential, additions, decks, and landscaping will be the areas of focus.

Students will be given a copy of Pro/E Wildfire Schools addition to put on their home computer.

Course# 173 Metal Technology I *2 Credits*
Grades 9 *To* 12 *Prerequisite* *Course Length* Year

Metal Technology 1 will be an introductory course in material processing. Students will be introduced to the various machines used in material processing. Machine Safety, drafting, and proper machine use and care. Different metal processing techniques will be discussed and students will build a project using the machines and procedures learned in class.

Course# 175 Wood Technology I *2 Credits*
Grades 9 *To* 12 *Prerequisite* None *Course Length* Year

Wood Technology introduces students to the world of woodworking. Topics covered are the woodworking industry, safety, basic tools and operations, joinery and assembly, stationary machines, and finishing techniques. Students will select projects from a list of choice projects for quarters one, two, and three. Based on what they have learned the students will be required for fourth quarter to make a working drawing, a material list, and a plan of procedure for a project they design and then produce.

Students are responsible for the cost of material used for producing each of their projects.

Course# 176 Wood Technology II *2 Credits*
Grades 10 *To* 12 *Prerequisite* Wood Technology 1 *Course Length* Year

Wood Technology 2 is an advanced woodworking course aimed at teaching students advanced cabinet making skills. The students in Wood Tech 2 will review information covered in Wood Tech 1, and build on those skills as well as adding new advanced cabinet making skills. Students in Wood Tech 2 will be building a larger more complicated woodworking project in this class

Course# 190 Graphic Design and Communications

1 *Credits*

Grades 9 *To* 12 *Prerequisite* none

Course Length Sem

This course will introduce students to the important role of graphic communications in our technical society. Students will learn about producing visual images using the processes commonly associated with the graphics industry. Students will gain an understanding of the various printing processes: porous printing(screen printing), planography printing (offset lithography printing),and impactless printing (electrostatic printing). Students will use various computer software such as InDesign CSII, Photoshop CSII, and Corel Draw. These programs will aid students in the design, manipulation, and layout of their projects. Digital photography, downloading, and storage of digital images will be covered so that students may use these images to create one or more of their visual designs. Students will have the opportunity to make signs using a vinyl cutter and printer.
