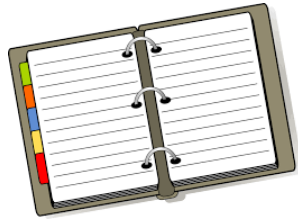


# COURSE OFFERING DESCRIPTIONS



## 2019-2020 School Year Adrian High School

### **REQUIRED COURSES**

Adrian High School Graduation Requirements.....	2
Business.....	3
Language Arts.....	4
Mathematics.....	5
Physical Education.....	5-6
Science.....	6
Social Studies/History.....	7

### **ELECTIVE COURSES**

Music.....	7-8
Art.....	8-9
Business.....	10-11
Family Consumer Science (Home Economics).....	11-12
Industrial Arts.....	12-14
Language Arts.....	14
Spanish.....	14-15
Mathematics.....	15
Science.....	15-16
Tele-Media (ITV) .....	17
Peer Helping.....	17

### **COLLEGE NOW CONCURRENT COURSES THROUGH SOUTHWEST MN STATE UNIVERSITY**

Eligibility Requirements & Courses.....	17-19
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# GRADE LEVEL REQUIRED COURSES

<u>Freshmen Required Courses</u>	<u>Sophomore Required Courses</u>	<u>Junior Required Courses</u>	<u>Senior Required Courses</u>
English 9 World History* U.S. History* Intermediate Algebra Physical Science Personal Finance PE/Health	English 10 World History* U.S. History* Biology Geometry Intermediate Business Apps PE/Health	English 11 Geography (sem) Algebra II Chemistry (11 <sup>th</sup> or 12 <sup>th</sup> )	English 12 Economics (sem) Government (sem) Chemistry (11 <sup>th</sup> or 12 <sup>th</sup> )

\*Offered alternate years

## Required Distribution of High School credits

Key: 0.5 credit = 1 semester

<u>COURSE</u>	<u>CREDITS</u>
*English	4.0
*Social Studies	3.5
*Mathematics	3.0
*Science	3.0
*Personal Finance	0.5
*Physical Education 9 & 10	0.5
*Health 9 & 10	0.5
*Computer Applications	0.5
*Fine Arts	1.0
Electives	<u>5.5</u>
<b>TOTAL CREDITS NEEDED</b>	<b>22.0</b>

\*By completing these courses, students will have fulfilled all state curriculum requirements.

# REQUIRED COURSE DESCRIPTIONS

## **BUSINESS DEPARTMENT**

### **PERSONAL FINANCE** 9th Grade (Semester Course)

This 9th grade Social Studies curriculum is broken into two separate sections. Section two is PERSONAL FINANCE. During section two, students learn how businesses operate, what services banks provide for them, and how to use checking accounts. The students will also be involved in a Business Community Simulation which reinforces basic business concepts and skills, as well as to developing student competencies in the areas of solving problems, making decisions, using reference sources, adjusting to work pressures, developing a positive attitude toward work, and working effectively with others.



### **INTERMEDIATE BUSINESS APPLICATIONS** 10th Grade (Semester Course)

Students will review correct position at the keyboard, keyboarding techniques, motion patterns to improve speed and accuracy, proofreading skills, business letters, simplified & formal memorandums, unbound reports, multiple column tables, knowledge of computer hardware, and software commands.

Three intermediate applications of Word Processing, Database, and Spreadsheet will be measured by daily practices, worksheets, quizzes, exercises, review questions, and written examinations. Students will also be introduced to Drawing, Painting, and Presentation.

Students will use the software program "Microsoft Office" which presents applications for Word Processing using Word, Spreadsheet using Excel, Graphics and Desktop Publishing, and Presentation Graphics using PowerPoint.

After completing the 10th Grade Business Applications course and receiving a minimum grade of a "B" or higher the student will earn "Articulated College Credits" for:

INTRODUCTION TO COMPUTERS  
BEGINNING WORD PROCESSING  
EXCEL I  
KEYBOARDING

### **ECONOMICS** 12th Grade (Semester Course)

This course is going to be a practical everyday use preparation class meant to give students skills for their financial future. Among the topics that will be discussed are credit cards, insurance, checking accounts, CD's and the role of a bank. A main topic will also be student loans and what is expected of them as a borrower by the government. Considerable time will be spent on the effect of interest rates. If time permits, another topic of discussion will be the stock market and investments.



After completing Economics and receiving a minimum grade of a "B" or higher the student will earn "Articulated College Credit" for:

# LANGUAGE ARTS DEPARTMENT

## **ENGLISH 9** 9th Grade (Full Year Course)

English 9 introduces foundational concepts that will serve students throughout their high school careers. Students study various literature genres: short story, play, epic poem, poetry, and novel. Students also analyze informational texts as well as text structure. Students annotate grade-level texts to strengthen reading comprehension and analysis, which provides the basis for their academic writing. Writing focuses on paragraph development using specific evidence to support a claim and draw logical conclusions. Using paragraph structure, students write narrative and persuasive essays. Throughout the year, students deepen and apply their study of grammar and vocabulary.



## **ENGLISH 10** 10th Grade (Full Year Course)

English 10 builds on the foundations set in English 9. Students study a variety of literary genres and learn to analyze and respond from a nonpartisan point of view. The course stresses the development and application of literary analysis to improve close reading skills. Students enhance their composition skills with a focus on fine-tuning persuasive and argumentative writing and integrating research based evidence into their persuasive research papers.

## **ENGLISH 11- AMERICAN LITERATURE AND COMPOSITION**

11th Grade (Full Year Course)

English 11 places an emphasis on reading American literature, including classic American novels, short stories, essays, poems, and plays by American authors. The reading will incorporate reading and vocabulary skills covered in state standards. In addition, the course will include writing standards used in essay writing and research. Grammar skills are reviewed with an emphasis of grammar and writing skills that are covered in ACT testing.

## **ENGLISH 12 – BRITISH AND WORLD LITERATURE & COMPOSITION**

12th Grade (Full Year Course)

English 12 places an emphasis on reading British and World literature. Students will read classics, including portions of: *Beowulf*, *The Canterbury Tales*, and *Macbeth*. Other course highlights include personal essays, literary analysis, and a research paper. The year-long course will also include vocabulary studies, speeches, and PowerPoint presentations. Writing and grammar assignments are designed to help students prepare for post-secondary and career expectations.

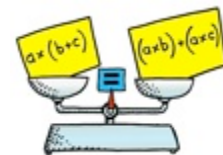


# MATHEMATICS DEPARTMENT

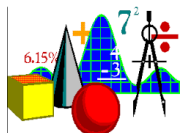
Requirement: Graphing Calculator

## **INTERMEDIATE ALGEBRA** 9th Grade (Full Year Course)

This course will be a continuation of 8<sup>th</sup> Grade Algebra I; focusing on the nonlinear topics. The topics of discussion in Intermediate Algebra are: Polynomials, Factoring Polynomials, Quadratic Functions/Equations, Exponents, Probability/Statistics, Interpretation/Displaying Graphs, Measures of Central Tendency, Radical Expressions and Rational Expressions.



## **GEOMETRY** 10<sup>th</sup> Grade (Full Year Course)



Geometry is a branch of mathematics that deals with the properties and relationships of plane figures such as triangles, polygons, and circles. Concepts of congruence and similarity within figures are investigated. Postulates, theorems, and corollaries are introduced enabling students to complete various geometric proofs. Students will also be introduced to concepts of Solid Plane Geometry along with Transformations, and an Introduction to Trigonometry.

Topics of discussion are: Foundations of Geometry, Geometric Reasoning, Parallel and Perpendicular lines, Triangle Congruence, Properties and Attributes of Triangles, Polygons and Quadrilaterals, Similarity, Right Triangles, Trigonometry, Perimeter, Area, Circumference, Circles, Spatial Reasoning, and Transformations of Shapes.

## **ALGEBRA II** 11<sup>th</sup> Grade (Full Year Course)

The Algebra II class is a mathematics class offered to students after they have completed Algebra I and Geometry, usually in their junior year. The design of the course is to reinforce skills that were introduced in Intermediate Algebra, as well as incorporating some new concepts that are preparation for higher level math courses.

Topics that are covered are: Systems of Equations, Polynomials, Exponential/Logarithmic Functions, Rational and Radical Equations and Probability.

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# PHYSICAL EDUCATION DEPARTMENT

## **HEALTH ISSUES 9** 9th Grade (Year Course in conjunction with Phy Ed)

A student shall demonstrate an understanding of decision-making processes and community health practices that promote healthful nutrition and dietary practices, and physical fitness, and that reduce and prevent tobacco use, drug and alcohol use, intentional and unintentional injuries, HIV, sexually transmitted diseases, and unintentional pregnancies.

## **HEALTH ISSUES 10** 10th Grade (Year Course in conjunction with Phy Ed)

This course is a continuation of Health Issues 9. A student will continue to learn about healthful nutrition and dietary practices, and physical fitness, health practices that reduce and prevent tobacco, drug and alcohol use, intentional and unintentional injuries, HIV, sexually transmitted diseases, and unintentional pregnancies.

## **PHYSICAL EDUCATION** 9th Grade (Year Course in conjunction with Health)



A student shall use decision-making processes to select appropriate physical activities to achieve fitness and shall demonstrate understanding of the training necessary to improve fitness and the rules and skill associated with physical activities by: designing and implementing a health-enhancing fitness plan, and demonstrating knowledge and skills in an aerobic activity and at least two other physical fitness activities.

## **PHYSICAL EDUCATION** 10th Grade (Year Course in conjunction with Health)

A student shall use decision-making processes to select appropriate physical activities to achieve fitness and shall demonstrate understanding of the training necessary to improve fitness and the rules and skill associated with physical activities by: designing and implementing a health-enhancing fitness plan, and demonstrating knowledge and skills in an aerobic activity and at least two other physical fitness activities.

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# SCIENCE DEPARTMENT

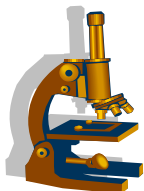
## **PHYSICAL SCIENCE** 9th Grade (Full Year Course)



Freshmen level science is a survey of the basic principles of physical science. It mainly is concerned with the most basic of ideas from physics and chemistry. This gives the student an idea of what physics and chemistry are about, but leaves the more complicated aspects of each to more advanced courses.

The major topics covered in ninth grade include simple mechanics and energy in various forms from the area of physics. The chemistry area includes atomic structure, use of the periodic table, acids, bases, salts, chemical bonding, chemical reactions, and chemical equations. There are some laboratory activities to support the textbook material in aiding the student to a more complete understanding of these topics.

## **BIOLOGY 10** 10th Grade (Full Year Course)



Biology is a laboratory science course that covers the study of living things while focusing on the Minnesota State Standards in Science. Biology focuses on the study of life by examining the following four concepts of biology: Structure and Function of Living Things, Interdependence Among Living Systems, Evolution in Living Systems and Human Interaction with Living Systems.

Lab and classroom activities will be conducted throughout the year in order to reinforce key concepts. Time in the lab will focus on general laboratory techniques and safety.

## **CHEMISTRY** 11th or 12<sup>th</sup> Grade (Full Year Course)

In this introductory chemistry course, the main attention is devoted to the basic principles of chemistry with laboratory periods focusing on applications of those principles. The course will include a study of the chemical elements, atomic theory and structure, chemical bonding, the states of matter, chemical reactions and equations, stoichiometry, the gas laws, and solutions. Diligent students will obtain a good background in inorganic chemistry in preparation for introductory chemistry at the college level.



## SOCIAL STUDIES/HISTORY DEPARTMENT

### GEOGRAPHY 11<sup>th</sup> Grade (Semester Course)



Geography focuses on how humans and landforms have interacted to create society, societal norms, and movement. It will look at how this has occurred throughout history, the world, and how this affects us in the United States. The course will traverse the six major continents so we can understand the differences and similarities between them. Finally, we will research how landforms have affected how people have survived, where they moved, and why they moved.

### GOVERNMENT 12th Grade (Semester Course)



This course includes the study of government and civics. The United States federal government and Constitution will be a primary focus, along with state and local government as well as some study of governments in other nations. The role of responsible citizens in a democracy such as ours, including political awareness and participation, will also be a primary focus.

### WORLD HISTORY 9th & 10<sup>th</sup> Grade (Full Year Course)

“That men do not learn very much from the lessons of history is the most important of all the lessons of history.” -Author Adolphus Huxley



Many researchers have claimed that history is simply a repeat of one event after another. This is the lesson in the quotation by Adolphus Huxley and why we study World History. Without learning from the mistakes made by our ancestors in the past, we are losing a valuable learning resource. In this course, the history of various cultures and how they came to develop into distinct groups of peoples will be examined beginning with the origins of mankind and ending with the pre-Industrial Revolution era.

## ELECTIVE COURSES

Some ELECTIVE classes offered require additional fees for consumable goods that are in the form of take home projects that become the property of the student. Such classes include: Industrial Technology, Art, and Family and Consumer Science.

## MUSIC DEPARTMENT

### SENIOR HIGH CHOIR 9-12<sup>th</sup> Grade (Full Year Course)

The **Concert Choir** is open to all students in grades 9-12 who have an interest in vocal music. The only prerequisite for the Concert Choir is to have an earnest desire to study and expand upon their knowledge of vocal music and performance. Students receive a letter grade each marking period based on points earned in evaluation, performance and participation.



During this year long course, students will rehearse various vocal works in order to expand their knowledge of their voice, explore the world of music to a deeper extent, and perform for numerous concerts throughout the year. Students will learn the mechanical workings of their voice and the best ways to use and care for it. They will work on basic theory and music history



as well. Exposing students to as much music outside of Adrian is also a goal of this course. **Participation in the concerts held throughout the year is required.** Choir carries a 1/2 credit per year. Upon special request, a student may be admitted to join concert choir at semester time.

Membership provides choir members with the opportunity to perform in a concert setting, in individual and group competition, and select honor choirs throughout the year. Voice checks will be held at the beginning of each semester to assign vocal parts for the singers.

**State Large Group Contest is a requirement of being in choir.** The group will perform before judges and be rated as a whole.

### **SENIOR HIGH BAND** 9-12<sup>th</sup> Grade (Full Year Course)



The **Concert Band** is open to all students in grades 9-12. Membership requires a student to have been involved with middle school band or an audition with the director. This ensemble is a performance-based activity with 3-4 concerts each year and concert attendance is required. All students participate in large group contest each spring. Students receive a letter grade each marking period based on points earned in evaluation, performance and participation.

During this year long course, student musicians will rehearse various instrumental pieces and will augment their regular rehearsal schedule with occasional sectionals. Optional individual lessons are offered and instrumental students are encouraged to audition each year for Minnesota All-State and regional honor bands.

All high school band members have the opportunity to participate, in some capacity, with the **AHS Marching Dragons**. (Besides instrumental positions, opportunities such as commanders, section leaders, drumline, colorguard, frontline & honor guard are available. ) The award winning AHS Marching Dragons include incoming seventh graders through incoming seniors (sixth grade students may audition to participate) and participate in parade competitions in September-October as well as a week-long camp in July. During the school year, rehearsals take place before school 3 days each week until the season ends.

**Pep Band** is an extension of the Adrian Instrumental Program and plays at most varsity home games. Participation points are earned each marking period and 'dragon pride' is often found in this energetic group.

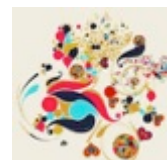
**Jazz Band** begins at the conclusion of the marching band season and is open to any high school band members. Students in jazz band rehearse during advising and before school and perform in 3 concerts throughout the year.

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## **ART DEPARTMENT**

### **ART I** 9-12<sup>th</sup> Grade (Semester 1 or 2)

Art I is designed to introduce students to a variety of art methods and media. In Art I we will look at the deep stretching roots of Art in society beyond the conventional studio art practice. With drawing, painting, printmaking, glass, and clay we will begin to scratch the surface of the oldest known form of human expression.





**ART II** 9-12<sup>th</sup> Grade (Semester 1 or 2)  
Prerequisite: Art I

Art II is designed to continue the knowledge base for students in a variety of art methods and media. Expanding the base knowledge established in Art I, students will further develop their artistic voice and visual language.

**DRAWING** 9-12<sup>th</sup> Grade (Semester 1)

This is a course aimed at teaching the most fundamental drawing skills. Like learning scales and keys in music, in this class, we will cover the building blocks for great drawing. We will learn the differences between contour drawings (line drawings) and drawing using value. Other fundamentals will be taught such as understanding different drawing tools, creating gray scales, different techniques for creating value, reductive drawing, various paper surfaces for effect, and many other tips and insights. Many of our drawings will be drawn from life as opposed to drawing from a photo.

**PAINTING** 9-12<sup>th</sup> Grade (Semester 2)



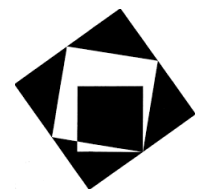
This course is a basic studio course in the properties of paint and the techniques of painting. Projects will emphasize the study of color, structure, creativity and aesthetic values in general. A command of techniques and materials, both traditional and experimental, will be taught.

**CERAMICS** 10-12<sup>th</sup> Grade (Semester)

This is an introductory pottery class consisting of hand building techniques as well as the fundamentals of throwing on the potter's wheel. The course will include an examination of clay, glaze, decoration methods, and firing process. The emphasis of this course focuses on understanding and applying the aesthetics, processes, form, and function of the ceramics art form.

**GRAPHIC DESIGN I** 10-12<sup>th</sup> Grade (Semester 1)

This course is designed to give students an understanding of and a practical application of Adobe Photoshop and an introduction to Adobe Illustrator. Through visual examples, this course will teach students the fundamental principles of graphic design: image-making, typography, composition, working with color and shape.



**GRAPHIC DESIGN II** 10-12<sup>th</sup> Grade (Semester 2)

This course is designed to utilize Adobe Photoshop and Illustrator to produce dynamic visual projects. Students will be given the opportunity to create professional-looking projects typical of today's graphic design industry. These projects include advertising and marketing assignments that will bring together technical skill with organization, management, communication, ethics and teamwork.

# BUSINESS/TECHNOLOGY DEPARTMENT

## **BUSINESS ACCOUNTING I** 11-12<sup>th</sup> Grade (Semester 1 & 2)

This course introduces students to basic accounting concepts and career options by progressing through three accounting cycles - proprietorship, partnership and corporation. Special units cover learning how to start and use automated systems on microcomputers. Required and extra credit computer problems will be implemented into the course. This course helps prepare students for entry-level accounting positions and for further study in accounting. Reinforcement will be achieved through special activities and business simulation packets.

## **BUSINESS ACCOUNTING II** 12<sup>th</sup> grade (Semester 1 & 2)

Prerequisite: Accounting I

Accounting II picks up with a two-column general journal and then introduces students to special journals in the final eight chapters of the book. All NEW automated and manual simulations give students hands-on, real-world experience in accounting practice. Students will analyze a service business organized as a proprietorship and merchandising businesses organized as corporations and conclude with special topics, partnerships, and recording international sales and electronic transactions. Each chapter is divided into three or four lessons with corresponding assessment activities at the point of use. New short application problems at the end of each chapter ensure student understanding before completing longer mastery and challenge problems.



## **ADVANCED KEYBOARDING** 11-12<sup>th</sup> grade (Semester 1 & 2)

Prerequisite: Grade 10 Intermediate Business Applications

Advanced Keyboarding is a half-credit (full-semester) course designed to continue the development of keyboarding speed and accuracy and to emphasize the production of business correspondence such as letters, memos, reports, and tabulated documents. Previous keyboarding training is expected. This course is for juniors and seniors only! **Grading:** Keyboarding is considered a totally "hands on" course. All graded work will be completed on the computer and will consist of timed writings, production work, production assessments, and exams. A Course Schedule will be distributed. Appropriate standards for timed writings and production work will be provided during the course.

## **INFORMATION TECHNOLOGY EXPLORATION** 10-12<sup>th</sup> grade (Semester 2)

High School Credit .50                      College Credits 2.0 through PSEO with MN West

This course is open to students interested in discovering more about and developing skills needed for a career in Information Technology. Concepts covered in this class will include careers in information technology, system administration and networking, internet research, software and application development, information security concepts, social media, and business analytics and software.

Most of this course will be taught at the high school with 3-5 field trips. This course is a part of a certificate program in Information Technology at Minnesota West and credits are transferable.

## **NETWORK BASICS** 10-12<sup>th</sup> grade (Semester 2)

High School Credit .50                      College Credits 2.0 through PSEO with MN West

The Networking Basics course will introduce students to computer networking, including maintenance, troubleshooting and setup of small networks. Students will build cables, learn networking theory, and explore existing network structures including the Internet. Students will

setup, configure and test small networks. This course is primarily an online class and includes a maximum of three off campus visits, not including the job shadow portion of the class. This course includes videos, lessons, job shadows, interactive and hands-on labs. The student will spend approximately 4 hours per week on this class, not including job shadows or campus visits.



## **FAMILY CONSUMER SCIENCE (HOME ECONOMICS)**

The understanding of food starts with knowledge. To do that you need to know more than just how to read a recipe on a page. The following courses are designed to enrich all levels of cooking experiences.

### **FOODS I 9-12 (Semester 1)**

Hungry? Learn first hand how to cook and prepare a variety of foods. Explore recommendations for healthy eating, preparing food safely, making meals on a budget and “eating” your work. Food units to be covered will be: preservation, quick breads, milk and cheese, meals for the family, cake and soups. All aspects of the meal from buying, preparing and storing will be covered.

### **CREATIVE FOODS 9-12 (Second Semester)**

Prerequisite: Foods I

This is an advanced course in the study of foods and nutrition for healthy living. Students will learn to purchase, prepare, and make foods for a healthy living style. Students will study such areas as family food needs, meal planning and preparation. Other units explored in Foods II include: spices, pasta, small appliance, and table service. An extensive unit on global foods is included in this semester. Students will look at ethnic menus, food customs, traditions and preparation of foods.

### **TEXTILES I 9-12<sup>th</sup> Grade (Semester 1)**

Cost: Materials

The focus of this class will be to study the influences of textiles on society. Students will explore such topics as: art design of fabrics, construction, concepts and techniques. The study of fabrics and finishes, designs and color, and weaves of fabric. This course will introduce students to basic textile construction – the main focus quilting. Students will complete two (2) projects demonstrating basic construction techniques and one larger project applying advanced skill and techniques.



### **TEXTILES II 9-12<sup>th</sup> Grade (Semester 2)**

Prerequisite: Textiles I

This course is designed for students who have completed basic textile construction. Students will meet individually with the instructor and determine the projects to be completed. Student's projects will need to include a variety of construction techniques. Techniques such as: fabric finishes, machine embroidery, appliques and paper piecing.

**ADVANCED TEXTILES** 10-12<sup>th</sup> Grade (Semester 1 & 2)

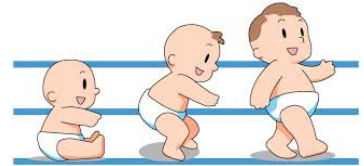
Prerequisite: Approval of Instructor

Cost: Materials

Students will complete projects in this course demonstrating an advanced knowledge of textile constructions. New techniques will be required on each project. Students will be awarded weekly points based on work ethic, time management, responsibility for personal and school property.

**CHILD DEVELOPMENT** 9-12<sup>th</sup> Grade (Semester 1)

This course is designed to study children's development from prenatal care through the development of the school age child. We will focus on physical, emotional, social, moral and intellectual development. We will study discoveries in brain development, explore web sites that support healthy growth and development, make observation of children, and special topics. Students will have a unit on theme related birthday parties for children, planning nutritious snacks and healthy food habits for children. Other units included will be creating learning activities for children, child safety and health.



**DESIGN YOUR SPACE** 9-12<sup>th</sup> Grade (Semester 2)

Cost: Materials

Want to learn more about designing living spaces? If you answered yes – this is the class for you.

Living spaces can meet a wide range of needs and reflect the resident's personalities, interests and values. You will study basic room arrangements, color, style, elements and principles of design and space relations. Students will participate in class-sponsored activities as well as individually developed space plans.

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## INDUSTRIAL ARTS DEPARTMENT

High School: In every class safety glasses are required. Students may bring their own, however they must be OSHA approved, or they may purchase them at the school. A measuring device is also required in all classes.

Four years of industrial studies are available to the students of Adrian High School. These courses include studies in drafting, woodworking, cabinetry, welding and construction.

**DRAFTING/ COMPUTER-AIDED DESIGN (CAD)** 9-12<sup>th</sup> Grade (Semester 1)

Class Size: 15

Drafting is a fundamental drawing course that provides students with knowledge of drafting and basic drawing techniques. The course emphasizes the use of drafting instruments, lettering, geometric construction, orthographic projection, isometric drawing, dimensioning, and sectional view.



CAD provides students with a broad introduction into 2-dimensional and 3-dimensional designs and modeling with a focus on construction and architecture-specific applications. Students will learn how to use industry-leading CAD software programs (Autodesk AutoCAD) to model construction projects, and then create and distribute basic, industry-standard architectural drawings.

**BEGINNING WOODS** 9-12<sup>th</sup> Grade (Semester 2) Class size: 14

Prerequisite: Drafting/Computer-Aided Design (CAD)

A passing grade on the safety test

Fee: Cost supplies for projects

Beginning Woods provides basic information about wood and wood products. The initial purpose is to teach and establish safe and sound practice in operating all of the tools and machines in the wood working area. Safety being of prime importance, students must pass a safety test with an 80% mark and will be given two tries to do so. One instructor selected project is required from each student. A project selected by the student and approved by the instructor is also required.

**CONSTRUCTION TECHNOLOGY** 10-12<sup>th</sup> Grade (Semester 1) Class size: 15

Prerequisite: Drafting/CAD

This course is an instructional program that prepares students for apprentice level jobs or continued education in the occupations of Carpentry, Electrical Wiring, Masonry, or Plumbing. Construction Technology is a basic course teaching fundamentals of safety, tools, math, and basic carpentry, electrical, masonry, and plumbing skills.

**CABINET MAKING** 10-12<sup>th</sup> Grade (Semester 2) Class size: 15

Prerequisite: Drafting/CAD

This is a technical course that enhances the understanding of various materials, processes, and products. This class is particularly helpful for students who have AutoCAD experience that would like to combine with some hands-on-experience to be more competitive in the job market. Experiences include safety and instruction of tools and machines associated with manufacturing. Mathematical and scientific concepts are stressed as students study various processes used for transforming materials into products such as cabinets, desks, entertainment centers, tables, etc. Students study the design of products, quality control, and design of production tooling, machine tool setups, and manufacturing systems.

**ADVANCED WOODS** 10<sup>th</sup> Grade (Full Year Course) 11-12<sup>th</sup> Grade (Semester 1 & 2)

Class size: 15

Prerequisite: Construction Technology & Cabinet Making

This course is offered for the advanced student interested in learning lifelong skills in the area of construction and manufacturing. The student will have a variety of areas of study to select from including cabinet making, carpentry and other advanced areas. During this course students will continue to build on their knowledge in planning a project, selection and use materials, including tools and machines to produce a finished product. Emphasis will be on safety and quality of workmanship. The students will do one required project (The instructor will decide if the student has the ability for any given project).

**METALS I** 10-12<sup>th</sup> Grade (Full Year) Class Size: 15

Prerequisite: Drafting/CAD

This course will cover the equipment and techniques for welding and cutting processes most often used in industry. They will include arc welding, wire feed MIG welding, gas welding and metal lathe machining. Required basic welding must be completed during the first semester or registration for the second semester is dropped. In the second semester, the student will design and build a project using the welding techniques.



**METALS II-V** 11-12<sup>th</sup> Grade (Semester) Class size: Limited to available space

Prerequisite: Metals I

Metals II is a one-semester, project driven course. The project must receive instructors approval. Project plans and a materials list are due no later than the end of the second week of class or enrollment is forfeited.

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## LANGUAGE ARTS DEPARTMENT

**JOURNALISM/COMMUNICATIONS** 11-12<sup>th</sup> Grade (Semester or Full Year Course)

The major task during the course is the production of the middle school and high school yearbook. The yearbook production includes shooting photographs as well as layout and design with an online layout program and PhotoShop.



Students will also work with Web-based social media and publishing school news. The course also included design and layout of various printing tasks through the school year, including programs and newsletters for school activities. Students will also learn video shooting and editing techniques in the production of stories for the broadcast program Dragon News.

**COLLEGE SPEECH:** See College Now section

**COLLEGE ENGLISH:** See College Now section

**COLLEGE LITERATURE:** See College Now section

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## SPANISH DEPARTMENT

**SPANISH I** 9-12<sup>th</sup> Grade (Full Year Course)



This course provides an introduction to the language and culture of the Spanish-speaking world. Instruction is based on the four skills of listening, speaking, reading and writing. The Spanish language is presented within the context of the contemporary Spanish-speaking world and its culture.



## **SPANISH II** 10-12<sup>th</sup> Grade (Full Year Course)

Prerequisite: Passing Grade in both semesters of Spanish I

This course presents the more complex structures of basic Spanish and expands the cultural themes of the first level. By the time the students have completed the second level, they will have acquired a command of the key vocabulary and structures necessary for personal communication as well as an appreciation of the breadth and variety of the Spanish-speaking world.

**COLLEGE SPANISH:** See College Now section

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## **MATH DEPARTMENT**

### **PROBABILITY & STATISTICS** -11<sup>th</sup> and 12<sup>th</sup> Grade (Full year course)

Students will review and expand their understanding of probability, as it is the foundation of statistics. Students will learn how to handle data including data collection, displaying data, and interpreting data. Students will learn how data is used to make predictions using linear regression. Finally, students will learn how hypothesis testing is used for decision-making. Other topics of discussion are: Measures of Central Tendency, Measures of Position, Standard Deviation, Measurability and Variability, Linear Correlation, Probability of Events, Binomial Probability Distributions, and Normal Probability Distributions.



**COLLEGE PRE CALCULUS:** See College Now section

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## **SCIENCE DEPARTMENT**

### **ANATOMY AND PHYSIOLOGY** 11-12<sup>th</sup> Grade (Full Year Course)



Anatomy and physiology is a detailed study of the structure and functioning of the human body. Mammalian organ dissection is experienced for a comparative anatomy study. The systems of the body are comprehensively studied. Laboratory is an integral part. This course will require a real study effort and is strongly recommended for students considering a medically related career, physical education or anyone desiring a better knowledge and understanding of the intricate workings of the human body.

### **ADVANCED CHEMISTRY** 12<sup>th</sup> Grade (Semester 2)

Prerequisite: Successfully completed Chemistry and have a 3.0 GPA.

This class will be designed to fit the needs of college-bound students with an interest in science. Topics will include: solutions, solution concentrations, organic chemistry, acids and bases, reaction energy and kinetics, and chemical equilibrium.



### **ADVANCED BIOLOGY** 12<sup>th</sup> Grade (Semester 1)

Prerequisite: Successfully completed sophomore Biology and have a 3.0 GPA.

This is an advanced course to better prepare those students seriously considering a science track in college. The class spends time at the nature area to prepare for participation in the annual 5<sup>th</sup>



grade Science Day. Areas to be discussed may include: ecology, evolution, genetics, genetic engineering, and classification.

### **MEDICAL TERMINOLOGY** 10-12<sup>th</sup> Grade (Semester)

Prerequisite: Approval of instructor

This course helps students develop a medical vocabulary by learning to analyze words and use roots, prefixes, suffixes, and abbreviations common to the medical profession. Students will learn to both separate medical terms into their word parts and to construct medical terms using those same parts. Emphasis is placed on pronunciation, spelling and construction of medical terms. Medical Terminology is recognized as a component of the health core curriculum. Working knowledge of medical terminology is essential for success in any health care field. This course may be taken as an online/hybrid course within the school day.

Two articulated college credits are available for students who earn 80% or better in this course and enroll in selected college programs. The credits available are valid for students in grades 10-12 for 2 years following graduation.

### **INTRODUCTION TO MEDICAL AND HEALTH CAREERS** 10-12<sup>th</sup> Grad (Semester)

Credit 1.0 (Semester 1 - 2 hours)

Introduction to Medical and Health Careers provides students the opportunity to explore a wide variety careers in an assortment of medical/healthcare settings. The course is designed to provide students the chance to see if a career in medical/health science is right for them; and if they determine they have an interest, it can help them narrow down the possible careers they might consider. Students will participate in in-depth study and exposure to medical/health science careers, career planning, employability skills, basic terminology, ethics, wellness, disease and safety. Students may also be required, by participating health care organizations, to have up to date Mantoux tests and vaccinations.

Instruction at Minnesota West-Luverne Center Tuesday and Thursday from 8:00-9:30 a.m. and online/Field work on M,W,F at the high school/community.

College Credit:

The course will be articulated through [www.ctecreditmn.com](http://www.ctecreditmn.com), which provides the student an opportunity to redeem the credit at a variety of participating colleges in Minnesota.

### **ZOOLOGY** 10-12<sup>TH</sup> Grade (Semester Course)

Prerequisite: Approval of instructor

This course is an online semester course, which focuses on the different classifications of animals. Students will learn how organisms are classified and take an in-depth look at each of the animal kingdoms. Students will be responsible for completing daily lessons or readings, which will be posted online and engaging in some classroom activities such as dissection and assessments. Students will be expected to participate in animal dissections in the lab. In-class activities and labs will occur during advising time on certain days. Students will need access to the internet and a technological device such as a computer, Chromebook, iPad, tablet, etc. throughout this course. Students in online classes need to be efficient independent workers and responsible with their time. Parent permission and acknowledge of these terms is required.



## TELE-MEDIA (ITV)

### LARGE ANIMAL SCIENCE 9-12<sup>th</sup> Grade (Semester 1)



This course looks in the areas of beef, sheep, swine, dairy, poultry, horse production and small animal production. Topics covered include careers, selection and evaluation, reproduction genetics, management, disease prevention and diagnosis, feeding and ration balancing, and recordkeeping.

### SMALL ANIMAL SCIENCE 9-12<sup>th</sup> Grade (Semester 2)

This course looks at companion and small animals. This includes horses, dogs, cats, rabbits, hamsters, gerbils, guinea pigs, ferrets, amphibians, reptiles and tropical birds. Topics include careers, care and management, nutrition, reproduction, health, animal rights and FFA.

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## PEER HELPING

### PEER HELPERS I-II-III-IV 11-12<sup>th</sup> Grade (Semester course-can take up to 4 semesters)

Peer Helpers assist fellow students in a variety of roles, such as one-to-one instruction, small group assistance, classroom tutoring, and provide service in the classroom as needed.



This course takes the format of an independent study and is overseen by a staff member. Peer Helpers need to exhibit dependability, initiative, appropriate modeling behavior and social skills, as well as academic success. A Peer Helper will be assigned to a classroom at the Elementary, Middle or High school building. Placements are for one semester at a time.

Grades will be given on the basis of evaluations from the assigned teacher(s) and a weekly assignment. 90 minutes of verified volunteer work are required each semester. Periodic meetings with the advisor will take place. Each Peer Helper will participate in a 2-week in-house tutoring programing with middle school students (this will take place during advising).

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## SOUTHWEST MINNESOTA STATE COLLEGE NOW PROGRAM Basic Information for Students

1. College Now Courses are college level courses that AHS can offer from SMSU. This program will allow AHS students to earn both high school and college credits without giving up their high school experience.
2. To be eligible to take College Now Courses, students must meet the following basic program requirement. **Students must have at least a 3.0 average or be in the upper third of the class as juniors and upper half of class as seniors.** Some courses require additional high school course work before students can register.

- College Now Courses offered at AHS are outlined below. Most have additional requirements to be eligible.

SMSU  
 ENGL 151  
 LIT 120  
 SPCH 110  
 MATH 135  
 ED 101  
 ED 251  
 SPAN 201  
 SPAN 202

ADRIAN  
 College English  
 College Literature  
 College Speech  
 College Pre-Calculus  
 Intro to Education and Lab  
 Introduction to Growth and Development  
 Intermediate Spanish I  
 Intermediate Spanish II

- College credits from SMSU transfer to other colleges and universities in all 50 states.
- Grading for College Now Courses follow the guidelines set by the college professor. Since the rigor of these courses will most likely exceed the rigor of a normal high school course, **AHS will use a “raised” grading scale for all College Now Courses.**

**COLLEGE ENGLISH:** Academic Writing 12th Grade (Semester 1)

This four credit class focuses on research-based writing, and includes: an explain-a-concept essay, common ground essay, a narrative essay, an annotated bibliography and a researched argument. Syllabus is determined and approved by Southwest Minnesota State University.

**COLLEGE LITERATURE:** Introduction to Literature 12th Grade (Semester 2)

Prerequisite: Academic Writing

This course introduces students to: fiction, poetry, drama, and non-fiction using British and world literature. Syllabus is determined and approved by Southwest Minnesota State University.

**COLLEGE SPANISH:** Intermediate Spanish I & II 11-12<sup>th</sup> Grade (Semester or Full Year Course)



The objective of this class is to increase proficiency in the language skills (listening, reading, speaking, writing, and culture/history) essential to communicative language learning. This is a Spanish intensive intermediate course where the cultivation of intercultural awareness will play a key role among the topics and activities covered by each lesson. Students are expected to provide substantial information in their essays regarding multicultural topics and a good development of ideas with supporting details or evidence. Rich use of vocabulary with frequent attempts at elaboration is also expected to succeed in this course.

**COLLEGE SPEECH** 11-12<sup>th</sup> Grade (Semester 1)

In this course, students will develop skill and confidence in writing and delivering speeches. Students will learn to apply principles of public speaking in a variety of speaking assignments. Syllabus is determined and approved by Southwest Minnesota State University.



**COLLEGE PRE CALCULUS** 12<sup>th</sup> Grade (Full Year Course)

In this course, students will begin a detailed study of the mathematics needed for Calculus. Concepts are presented and explored from symbolic, graphical, and numerical perspectives. Basic concepts covered include equations, inequalities, polynomial, quadratics, rational functions,

exponential and logarithmic functions, Trigonometry, Law of Sines/Cosines, Complex Numbers, Linear Systems, Numerical Patterns, Matrices, Sequences and Series. The required preparation is three years of high school mathematics, including two years of Algebra.

**INTRO TO EDUCATION AND LAB** 11-12<sup>th</sup> Grade (Semester Course)

This course is an introduction to early childhood, elementary, and secondary education for students interested in teaching. Students will explore their potential for teaching in light of admission criteria and licensure requirements. Includes study of historical and social foundations of education topics such as inquiry into the teaching and learning process, schools in a multicultural and diverse society, the profession of teaching principles of cooperative group learning and cultural differences, communication, and stereotyping. Fifteen hours of field experience is included.



**INTRO TO GROWTH AND DEVELOPMENT** 11-12<sup>th</sup> Grade (Semester Course)

This is an introductory study of child growth and development from conception through adolescence with a concentration on the physical, cognitive, and social-emotional domains of development. Emphasis areas of the course include: historical foundations and theories associated with the study of child development, the research process, the implications of teaching and learning, student diversity and pertinent topics associated with the possible effect of environment and behavior on prenatal development through adolescence.