

# Course Description

**2021-2022**

Bruce Public School



*“Education is a gift that none can take away.”*

*–Chinese Proverb*

## TO THE STUDENTS OF *BRUCE HIGH SCHOOL*

Pursuant s.118.13 Wis. Statute the Bruce School District does not discriminate on the basis of sex, race, origin, ancestry, creed, pregnancy, marital or parental status, sexual orientation, or physical, mental, emotional, or learning disability.

### A MESSAGE TO YOU:

Preparing for your future is serious business which deserves as much attention as you can give. Whether after graduation you plan to seek a job, go on for further vocational/ technical training, or go to a four year college, doing well in high school will increase your chances for success. Getting a good education NOW will make an important difference in your future. We are fortunate to have an outstanding educational system and it is up to you to take advantage of the opportunities it offers.

By getting the most out of your high school years, you will be prepared in those areas employers consider essential for success on the job: reading, writing, speaking, and listening; problem solving and critical thinking skills; mathematics, science; social studies, vocational skills, and computer literacy. In high school, you should also develop good study habits, positive work attitudes, employment skills, and an ability to get along with other people

The following are graduation requirements for the **Bruce High School**:

<u>ENGLISH</u>	4 credits
<u>HISTORY</u>	3 credits
<u>MATH</u>	3 credits
<u>SCIENCE</u>	3 credits
<u>PHY-ED</u>	1.5 credits
<u>HEALTH</u>	.5 credit
<u>PERSONAL FINANCE</u>	.5 credit
<b>ELECTIVES</b>	<b>15.5 credits</b>
<b>TOTAL</b>	<b>31 credits</b>

### Elective Sub Categories:

Agricultural Education

Art

Business Education

Family and Consumer Science Education

Foreign Language

Music

Technology Education

**Make your course selections for next year very carefully. *Students are expected to live with their choices.*** Teacher time and room assignments are based on student class choices. This is a very time consuming and expensive process. When a class is selected, the student is in effect asking the school to provide a specific educational opportunity.

The school meets its obligation by scheduling the class. It is then the student's responsibility to make the best possible use of their class time. Students must remember that the right to choose classes carries with it an equal responsibility to live with the consequences of these choices. Once chosen, classes will be dropped only for very serious reasons. For a specific explanation of the "Program Changes", review your Student Handbook.

## In Preparation for Higher Learning:

### *ENGLISH*

A four-year English-communication arts program for the college-bound student ought to include a variety of British and American writers, as well as some world and non-Western literature. At least a year should focus on written composition and at least a semester should concentrate on speech communication, public speaking, theater, or debate. You should practice writing and speaking in a variety of audiences throughout your high school years.

### *FOREIGN LANGUAGE*

College-bound students should take at least two years of foreign language. The study of languages helps to prepare you for more successful university work by providing a clearer understanding of the structure and power of your own language. Such study will also improve your sensitivity to other cultures and other ways of thinking and verbalizing ideas and will enhance your access to more information in every academic and professional field.

### *MATHEMATICS*

The three-year mathematics program for college-bound students generally includes Algebra I, Geometry and Algebra II, although other combinations of courses are possible. It is highly recommended that some mathematics be part of your senior year. Your mathematics program should provide you with the ability to apply mathematics to everyday situations including computation, interpretation, and problem solving. In addition to basic arithmetic operations, you should be able to manipulate algebraic symbols and understand the meaning of this manipulation. Your mathematics studies should prepare you to use mathematics in estimation, approximation, and prediction of reasonable results. Mathematics competencies should include an understanding of measurement, the ability to draw conclusions from graphs and tables, and knowledge of the capabilities of computers.

### *SCIENCE*

A four-year science program for the college-bound student should include quantitatively oriented courses in physical science, biology, chemistry, and physics that contain strong laboratory components. Your science preparation should stress the observational and experimental bases of scientific investigation and emphasize the major concepts and principles affecting the biological and physical environment.

### *SOCIAL STUDIES*

The high school student preparing for college should have at least three years of social studies including a year of U.S. History and a year of World History. The study of the structure and operation of government in the United States prepares students to be engaged citizens who actively participate in the political process. History prepares students to examine information from different viewpoints. Students learn how the study of economics, sociology, psychology, geography, anthropology, and political science all provide a lens to examine information critically. The ability to process information and use it to defend arguments will improve the students' future both academically and professionally.

## PREPARING FOR A FOUR-YEAR UNIVERSITY OR COLLEGE

### *MINIMUM Preparation for College with Bruce High School Graduation Requirements*

- 4 credits of English
- 3 credits of Mathematics, must include: Algebra I, Geometry, Algebra II
- 3 credits of Science, should include: Physics, Chemistry, Chemistry II or Anatomy & Physiology
- 3 credits of History
- 1.5 credits of Phy-Ed
- .5 credit of Health
- .5 Personal Finance
- 15.5 credits of electives from above areas, or Foreign Language (two years required at some colleges), Art, Business Education, Technology Education or other areas of interest.

*Total of **31** or more credits*

### *BEST Preparation for College with Bruce High School Graduation Requirements*

- 4 credits of English
- 4 credits of Mathematics: Algebra I, Geometry, Algebra II, Advanced Math
- 4 credits of Science: General Science, Biology, Chemistry, Chemistry II, Physics, or Anatomy & Physiology
- 4 credits of History
- 2 to 4 credits of a Foreign Language
- .5 credit of Information Processing
- 1.5 credits of Phy-Ed
- .5 credits of Health
- .5 Personal Finance
- 6 credits of electives from above areas or Art, Business Education, Technology Education or other areas of interest.

*Total of **31** or more credits*

## PREPARING FOR TECHNICAL COLLEGE

### *MINIMUM Preparation for Technical College with Bruce High School Graduation Requirements*

- 4 credits of English
- 3 credits of Math
- 3 credits of Science
- 3 credits of History
- 1.5 credits of Phy-Ed
- .5 credit of Health
- .5 credit of Information Processing
- .5 Personal Finance
- 14 credits of electives from Mathematics, Sciences, Arts, Business Education, Technology Education or classes related to Technical College interests.

*Total of **31** or more credits*

### *BEST Preparation for Technical College with Bruce High School Graduation Requirements*

- 4 credits of English
- 3 credits of Mathematics
- 3 credits of Science
- 3 credits of History
- 1 additional credit of Math or Science
- 1.5 credits of Phy-Ed
- .5 credit of Health
- .5 credit of Information Processing
- .5 Personal Finance
- 14 credits of electives from Mathematics, Sciences, Arts, Business Education, Technology Education or classes related to Technical College interests

*Total of **31** or more credits*

## **PREPARING FOR THE WORKFORCE AFTER HIGH SCHOOL**

The Bruce High School graduation requirements provide an exceptional foundation for entering the workforce after graduation.

## *THE YOUTH OPTIONS PROGRAM*

The program (which replaces the previous Post-Secondary Enrollment Options program which began in the 1992-93 school year) opens the door to greater learning opportunities for motivated students who are considering a technical career, students wishing to begin college early, or students who want to prepare themselves to enter the workforce immediately after high school graduation.

Wisconsin's **Youth Options** program allows public high school juniors and seniors who meet certain requirements to take post-secondary courses at a UW institution, a Wisconsin technical college, or one of the state's participating private nonprofit institutions of higher education. Students may enroll to attend courses that begin in the fall of each school year. Approved courses can count toward high school graduation as well as for college credit.

Under **Youth Options** a student will not have to pay for a college course if the school board determines the course qualifies for high school credit and is not comparable to a course already offered in the school district. If the course is approved by the school board, the student can receive both high school and college credit upon successful completion of the course. A student who successfully completes his or her high school graduation requirements will earn a high school diploma, regardless of whether the requirements were met while attending high school or a college. Students wishing to participate in a post-secondary course next fall must notify our school board by completing form PI-8700A by March 1st.

## *DRIVER EDUCATION*

Driver Education is **NOT** offered as a *school-year* required course. There is a classroom part of driver education that is offered during the summer. Information on this will be available in the spring prior to the summer session. A letter is mailed to all students eligible by age and will include the total cost of the program, as well as the dates that the class is held. The behind-the-wheel part of drivers' education will be arranged by the instructor after your classroom phase is finished.

# Bruce High School Courses

## CAREER PATHWAYS OF STUDY

\* - Articulated college credit available

DL - Distance Learning (video class)

BUSINESS	ENGINEERING, MANUFACTURING & TECHNOLOGIES	HEALTH SCIENCE	LAW & PUBLIC POLICY	MEDIA ARTS	AGRICULTURE, FOOD & NATURAL RESOURCES
Accounting I, II *	Intro/AutoCADD Inventor	Health Occupations	Ethnic Studies	Video Game Develop. & Marketing	Horticulture/ Advanced
Intro to Business *	Robotics	Anatomy and Physiology	Legal Studies	Web Page Development I, II	Forestry
Business Law	Biotechnology	Biotechnology	Intro to Sociology * DL	Intro/Architecture I, II	Wildlife Management
Legal Studies	Advanced Math	Chemistry		Information Processing *	Animal Science
Ethnic Studies	Calculus* DL	Advanced Math			Production Agriculture
Computer Applications I, II *	Physics	Medical Terminology* DL			Food Science I, II
Information Processing *	Intro/Architecture I, II (9-12)	Intro to Psychology * DL			Basic/Advanced Foods
	SolidWorks Intro to CAD/CAM	CNA certification (age: 16+)			Career Foods
	CAD Basics *				Biotechnology
					SAE Immersion

# AGRICULTURAL EDUCATION

- Agricultural Construction
- Advanced Agricultural Construction
- Animal Science
- Biotechnology
- Conservation of Natural Resources
- Forestry
- Horticulture
- Advanced Horticulture
- Power Mechanics
- Production Agriculture
- SAE Immersion
- Small Engine Maintenance
- Wildlife Management

These courses prepare students for careers in the science, production, and marketing of food, fiber and natural resources. The courses are arranged in a two-tiered system of introductory courses, and advanced courses. Students enrolled in these courses will benefit from FFA membership through increased learning opportunities in the course areas. FFA members develop leadership skills through contests and group projects in a recreational setting.

**Introductory** (No prerequisite required)

Horticulture, Agricultural Construction, Animal Science, Small Engine Maintenance, Conservation of Natural Resources

**Advanced** (Prerequisite class required—or instructor approval)

Biotechnology, Advanced Horticulture, Advanced Agricultural Construction, Production Agriculture, Wildlife Management, Forestry, Power Mechanics

## *AGRICULTURAL CONSTRUCTION* (1 Trimester)

Students will learn the fundamentals of agricultural structure design and construction. Structure planning and design concepts, as well as techniques, will be covered first. Students will then get the chance to apply the principles they learned in the construction of small agricultural structures. Through these methods, students will develop the skills necessary to properly use standard construction tools and techniques in framing, plumbing, electrical wiring, siding and roofing.

## *ADVANCED AGRICULTURAL CONSTRUCTION* (1 Trimester)

### **REQUIRED PREREQUISITE - Agricultural Construction OR Instructor Approval**

In this class, students will continue to use the skills they acquired in Agricultural Construction in conjunction with many more advanced techniques to design and complete a construction project within the community. Students will work together as a design crew and then as a construction crew to gain simulated experience of working with co-workers.

## *ANIMAL SCIENCE (Science Equivalent)* (1 Trimester)

In the first quarter of this course, students will explore the variation between species of animals used for pets, livestock, as well as various exotics. Body types, body systems, and how they work will be the primary focus. In the second semester, students will focus on animal care and select veterinary techniques, with the focus on common companion animals such as dogs and cats. **This course can count for .5 credits of science.**

## *BIOTECHNOLOGY* (1 Trimester)

### **RECOMMENDED PREREQUISITE: An understanding of Biology**

What do Cheese, Bread, Ethanol, Biodiesel, Penicillin, Bt Corn and Fireflies have in common? They are all a part of Biotechnology! Utilize fantastic equipment to make Cheeses, fermented foods, biofuels and more. Explore the concepts used to develop medicines and make technical advances in plants and animals. This is a hands on course—be prepared to create fascinating things you never imagined possible.

# AGRICULTURAL EDUCATION



# AGRICULTURAL EDUCATION

## *CONSERVATION OF NATURAL RESOURCES* (1 Trimester)

Students in this class will explore the many aspects of natural resources. Identifying plant and animal species, exploring ecosystems, as well as resource conservation and management will be just a few of the topics covered. School forest resources will be utilized in this course, so students should be prepared for occasional class period long outdoor field trips. This course will serve as a prerequisite for several topic specific advanced courses as well.

## *FORESTRY* (1 Trimester)

### **REQUIRED PREREQUISITE - Conservation of Natural Resources**

This course covers a range of topics including identification of economically important species, safe logging practices, management of different forest types, marketing forest products and conservation of forest resources.

## *HORTICULTURE* (1 Trimester)

Horticulture includes units on plant growth and reproduction, soil care and management, floral design (live and dried arrangements), careers, plant I.D., pest management, houseplants, and greenhouse management.

Horticulture is a large and growing field with career choices in all 50 states. Examples of horticultural careers include: greenhouse and nursery management, landscape design and construction, floral design and fruit and vegetable production, just to name a few.

## *ADVANCED HORTICULTURE* (1 Trimester)

### **REQUIRED PREREQUISITE - Horticulture OR Instructor Approval**

Ornamental plants can add beauty and elegance to any place, setting or occasion. This course will focus on how plants can be placed and used to create an attractive setting. Design concepts will be covered in the first quarter to develop an understanding of how to create aesthetically pleasing combinations and arrangements. Construction of floral designs and landscapes will come next with projects such as residential and commercial landscapes, annual and perennial flower beds, cut flower bouquets, as well as worn arrangements such as corsages and boutonnieres.

## *POWER MECHANICS* (1 Trimester)

### **REQUIRED PREREQUISITE - Small Engine Maintenance**

Students will review the basic concepts of power equipment and automobiles. Students in this class will begin the semester by reviewing engine maintenance with advanced engines. Students will learn how these machines are to be cared for differently than simple small engines. Next, students will focus on basic vehicle and equipment maintenance; students will learn to check important fluids, tire pressure and many more important vehicle and equipment specifications that every vehicle or equipment owner should know. Additional topics that will be covered include power systems, hydraulics, fuels and fuel systems.

## *PRODUCTION AGRICULTURE* (1 Trimester)

### **RECOMMENDED PREREQUISITE - Animal Science**

Students enrolled in production agriculture will learn the fundamentals of the production of standard species of livestock, as well as how to produce the various forages and grains used to feed them. Techniques for day-to-day operation, as well as management will be the focus of this course.

## *SAE IMMERSION* (1 Trimester)

In this course, students will be able to utilize a class period daily to advance their Supervised Agricultural Experience. Supervised Agricultural Experiences or SAE's represent the independent, hands on learning component of agricultural education, and allow students to pursue exploration and experience in any topic within agriculture that they have a strong interest in. Topics are almost limitless, but can include caring for

# AGRICULTURAL EDUCATION

## AGRICULTURAL EDUCATION

plants and animals, running their own or working for an agricultural business, or managing or assisting with one of the school's agricultural enterprises such as the greenhouse plant sale, hydroponic garden, orchard, garden, or forest. Students will be expected to work independently on a daily basis, keeping accurate records of their experiences.

### ***SMALL ENGINE MAINTENANCE*** (1 Trimester) **(Advanced Standing Credit -WITC)**

Students will learn the basic concepts of small engines in this class. Students will first learn about engines, tools, processes and functions of basic small engines. Students will then work at disassembling and assembling a provided engine. Upon completion, students will be allowed to bring in engines of their own to be worked on. These engines will be tuned up and brought back to peak operating performance. Students will learn and demonstrate simple maintenance procedures that will be useful to any owner of small engines.

### ***WILDLIFE MANAGEMENT*** (1 Trimester)

#### **REQUIRED PREREQUISITE - Conservation of Natural Resources OR Instructor Approval**

This class will provide the student with an overview of the common species of fish and wildlife common to Rusk County and Wisconsin. Students will learn identification techniques, habitat requirements and management techniques. Hunting and fishing will be topics discussed along with conservation, preservation and wildlife ethics.

# ART

- Art I
- Art II
- Art III
- Art IV
- Advanced Drawing I
- Advanced Drawing II
- Sculpture I
- Sculpture II
- Yearbook

## *ART I (2 Trimesters)*

Art I explores the basic elements of design (line, shape, form, color, texture, value, space), principles of design (balance, movement, rhythm, contrast, emphasis, pattern, unity), and how they interrelate. The course covers a wide spectrum of art medium experimentation. Students will be creating “fine art” projects and some “crafts” as well. Art disciplines covered include: ceramics, acrylic and watercolor painting, printing techniques, metals, fibers, sculpture, with a main emphasis on basic drawing and design skills. Art History is explored as it relates to the student’s projects.

## *ART II (Intermediate Art) (2 Trimesters)*

### **REQUIRED PREREQUISITE - Art I A and Art I B**

Art II is offered for those students interested in continuing their study of art. Art disciplines covered include: ceramics, painting, printmaking, metals, fibers, photography, digital art, and sculpture. Basic drawing is explored at a “stepped-up” level. Projects and techniques that were not included in Art I will be introduced. Art History and Careers in Art will also be explored.

## *ART III (Advanced Art) (2 Trimesters)*

### **REQUIRED PREREQUISITE - Art II A and Art II B**

Art III involves utilizing all that was learned in earlier art classes to create new, more advanced works of art. References to “Art History” (famous art and artists, styles, techniques, mediums, etc.) will help student’s awareness of possibilities which will open up to them in the creative process. A balanced amount of independent study will provide the students with opportunities to pursue specialized art mediums unique to their interests. Art mediums of interest include: Ceramics, pottery, sculpture, glass art, art metals, fiber arts, acrylic and watercolor painting, mixed media, photography, drawing and printmaking.

## *ART IV (Advanced Art) (2 Trimesters)*

### **REQUIRED PREREQUISITE - Art III A and Art III B**

Art IV reviews the basic art fundamentals learned in Art I, Art II and Art III. It offers the student advanced concepts, principles and styles/techniques of a wide variety of mediums including ceramics, sculpture, drawing, painting, and printmaking. To better their skills in their chosen specific mediums/styles, students will be given more freedoms than in Art III to create through individualized projects. Students will also learn skills in organizing and setting up art exhibits, framing, photographing art for portfolios and preparing a portfolio. Art History is explored as it relates to student projects.

## *ADVANCED DRAWING I (1 Trimester)*

### **REQUIRED PREREQUISITE - Art I**

This class is offered to students who have decided that drawing and illustration is an area of Art that they want to concentrate and develop further skills. Students will practice drawing through assignments and exercises that will increase their drawing and three dimensional skills to create representational art. Experimental materials and techniques will be explored, and some drawing projects will be transformed into painting, printmaking, and computer graphic projects. Class critiques that look at student as well as other artist’s work will develop evaluation skills necessary for more independent work.

# ART

## ART

### *ADVANCED DRAWING II* (1 Trimester)

#### **REQUIRED PREREQUISITE - Advanced Drawing I**

This class is offered to students who have decided that drawing and illustration is an area of Art that they want to concentrate and develop further skills. Students will practice drawing through assignments and exercises that will increase their drawing and three dimensional skills to create representational art. Experimental materials and techniques will be explored, and some drawing projects will be transformed into painting, printmaking, and computer graphic projects. Class critiques that look at student as well as other artist's work will develop evaluation skills necessary for more independent work.

### *SCULPTURE I* (1 Trimester)

#### **REQUIRED PREREQUISITE - Art I OR Instructor Approval**

This class is offered to students who have decided that ceramics, sculpture, and other 3-D forms of art are areas that they want to concentrate and develop further skills. Class critiques that look at student as well as other artist's work will develop evaluation skills necessary for more independent work

### *SCULPTURE II* (1 Trimester)

#### **REQUIRED PREREQUISITE - Sculpture I**

This class is offered to students have decided that ceramics, sculpture, and other 3-D forms of art are areas that they want to concentrate and develop further skills. Class critiques that look at student as well as other artist's work will develop evaluation skills necessary for more independent work.

### *YEARBOOK* (3 Trimesters)

The class is a year-long class that is open to only 10<sup>th</sup>, 11<sup>th</sup> and 12<sup>th</sup>. During the course of the year, students are required to sell advertisements, take pictures, write headlines, construct the pages and sell the yearbook. This work is heavily technological in that the yearbook is compiled utilizing a specific program from Pictavo. Each student will be responsible for managing pages assigned to them. Also, there will be several students who are assigned as editors.

## ART

## BUSINESS EDUCATION

- Accounting
- Accounting II
- Business Law
- Computer Applications I
- Computer Applications II
- Employability Skills
- Information Processing
- Intro to Business
- Personal Finance
- Videos Game Development
- Web Page Development I
- Web Page Development II

The Business Department offers a variety of classes that will help you prepare for the world or work, technical college, and a four-year university. Five courses offer transcribed college credits through WITC **if you earn a “B” or better in each of those classes**. That is free college credit at WITC.

### **ACCOUNTING I** (2 Trimesters) **(Transcribed Credit—Free College Credit -WITC)**

Accounting provides an understanding of the basic elements and concepts of double-entry accounting systems. Activities include the accounting equation, the accounting cycle, entering transactions in journals, posting to ledgers, the end-of-period statements and reports, payroll systems, banking activities, taxes, uncollectible accounts, depreciation, inventories, and notes and interest. Automated accounting principles are integrated into many of the activities such as payroll, preparation of balance sheets, income statements, and journal entries. Students will have several hours of hands-on computer time doing various automated accounting projects including a business simulation. **\*\*Suggested for all college bound students.**

### **ACCOUNTING II** (2 Trimesters) **(Transcribed Credit—Free College Credit -WITC)**

#### **REQUIRED PREREQUISITE - Accounting I with a grade of B or above.**

Activities include departmentalized accounting, general accounting, adjustments, corporate accounting, cost accounting, and managerial accounting. There will be an emphasis on computer use. This course provides learning needed for entry-level employment or the basis for further accounting study at technical school or college. This is an independent study course.

### **BUSINESS LAW** (1 Trimester)

This course is designed to acquaint students with the basic legal principles relevant to each individual in his or her triple role of citizen, consumer, and employee. Content includes the origin of law, the court systems, criminal and civil law, rights and duties, basic elements of contracts, consumer protection, insurance, bailments, negotiable instruments, employer-employee relations, and legal affairs affecting property such as ownership, transfer, landlords and tenants, wills and estates, and community property. The law is interpreted through case studies. Business law is not a prelaw course.

### **COMPUTER APPLICATIONS I** (1 Trimester) **(Transcribed Credit—Free College Credit-WITC)**

#### **REQUIRED PREREQUISITE - Successfully Completed Information Processing I**

This course is based on the use of Microsoft Office software. In this component of the course we cover Word and Excel, the word processing and spreadsheet units. This course is designed to acquaint students with the capabilities of the Microsoft Office software and how it can help them create professional documents. In addition to this we will be working on improving keyboarding speed and accuracy. **\*\*This course combined with Computer Applications II will enable you to learn the entire Microsoft Office Suite--Word Processing and presentation package that colleges and technical school currently request their entering students to be able to use.**

### **COMPUTER APPLICATIONS II** (1 Trimester)

#### **REQUIRED PREREQUISITE - Successfully Completed Information Processing I**

This course is based on the use of Microsoft Office software. In this component of the course we cover Publisher, PowerPoint and Access, Professional documents, the sideshow presentation and database units. It

## BUSINESS EDUCATION

## BUSINESS EDUCATION

is designed to acquaint students with the capabilities of the Microsoft Office Suite and how it can help them create professional documents and presentations. We will be combining all applications of the Microsoft Office capabilities and learning how to import from one document to another. This will be a constantly changing and improving curriculum as CD-ROM and Internet capabilities are added to our classroom. This course combined with Computer Applications I will enable you to learn the entire Microsoft Office Suite--Word Processing and presentation package that colleges and technical schools currently request their entering students to be able to use.

### *EMPLOYABILITY SKILLS* (1 Trimester)

Employability is a semester course for students, designed to develop the knowledge and skills necessary to prepare for the dual role of wage earner and family member. Knowledge of the factors involved in these roles is vital for preparing students to make informed and competent decisions regarding career and family life. Through this course students are able to explore career options, develop career goals, demonstrate job seeking skills, and identify entrepreneurial skills and skills needed to balance work and family. This class not only helps students prepare for life after high school, but the skills and topics covered within this class can be helpful to students who are currently employed. Students will learn to create resumes, fill out job applications, prepare for an interview and learn how to apply soft and transferable skills to the workplace. This course is a prerequisite for **Youth Apprenticeship**, in which a student can receive credits for working outside of school.

### *INFORMATION PROCESSING* (1 Trimester) **(Transcribed Credit—Free College Credit-WITC)**

The primary purpose of Information Processing is to help students develop a greater understanding of how computers work. Computers and computer based technology have affected our personal and professional lives. The keyboard, as used on most devices serves as the primary device for inputting information into electronic information processing systems. The keyboard is and will continue to be the most widely used input device in communicating with computers. Keyboarding skills allow students to work more efficiently with microcomputers in educational, personal and/or future employment settings. In this course, the student will develop speed and accuracy by learning the touch operation of the alphanumeric keyboard characters. Topics covered include proofreading, basic operation of equipment, language skills, careers in computers, information processing concepts, business letter and report formatting, and introduction to MS Word, Excel, PowerPoint and the Internet.

### *INTRODUCTION TO BUSINESS* (1 Trimester) **(Transcribed Credit—Free College Credit-WITC)**

This offering is designed to help students develop an understanding of the role of business in a free enterprise economic system. It provides principles, concepts, and understanding for the preparation of individuals as effective citizens, employees/employers, and consumers participating in the American free enterprise economy. This course will unlock the mysteries of what businesses are, how they work, and what impact they have on students' everyday lives. Students will also learn what steps they can take to prepare for success in future careers.

### *PERSONAL FINANCE* (1 Trimester) **(Transcribed Credit—Free College Credit -WITC)** **REQUIRED for graduation**

This class introduces skills needed to own and/or operate a successful business. Employer/employee relationships, credit, estate planning, insurance and marketing decisions are some topics covered. The second part of the class provides a fundamental coverage in personal money management (paychecks, taxes, and checking accounts), credit management and risk management (personal risk and insurance). The Internet and electronic sources are integrated throughout the course as an excellent resource for financial information. Students will work with a real life budget, along with working with the local insurance agency to go through the steps of insurance purchase. This is a must class for all students as they approach the real life world after high school.

## BUSINESS EDUCATION

## BUSINESS EDUCATION

### *VIDEO GAME DEVELOPMENT & MARKETING* (1 Trimester)

Do you want to learn how to create your own Video Game? Do you want to learn how the video games you love to play are developed? Students are immediately attracted and engaged with playing video games and what better than to learn how to create your own video games. This course will explore the rapidly growing video game industry. From marketers, script writers, and software engineers to music composers and animators, there is and will be a great need for creative, talented and educated individuals in this growing and fast-paced profession. The future opportunities in this field are tremendous. In addition to being exposed to an opportunity filled industry, students will develop a wide variety of cross functional skills in this course. Students will learn a wide variety of real life skills, including listening, self-direction, note taking, communicating electronically, time management and collaboration. Students will use a 5 phase simulation to learn the software program Construct, to create two video games. This will be a great class for all students interested in video games. You should have keyboarding skills before taking this course.

### *WEB PAGE DEVELOPMENT I* (1 Trimester)

This course consists of learning beginning web development skills using HTML and other web page software, including Weebly and WIX, CSS, and JAVA. A review of computer terminology and continuing updates on the latest advancements in computer technology is also emphasized. This class will give the student a hands-on lesson in new computer technology and software. Students will be developing a web page for oneself a business and a community.

### *WEB PAGE DEVELOPMENT II* (1 Trimester)

#### **REQUIRED PREREQUISITE - Web Development with a "C" or Better Grade**

Students further develop their skills at creating Web Pages, searching the Internet, creating graphics and finding out what exactly makes computers work. Students would gain hands-on knowledge of taking apart and putting back together a computer and also learn to trouble shoot to find out what it takes to be a computer technician. Advanced programming and desktop publishing would also be included in this class. Students will continue their use with HTML, CSS and JavaScript to create more enhanced web pages.

# ENGLISH

- English 9
- English 10
- English 11
- English 12
- Senior College Prep
- Advanced Literature
- Creative Composition
- English Proficiency
- English Conventions
- Mythology

## *ENGLISH 9* (2 Trimesters)

Students will read, annotate, and analyze short stories, novels, drama and informational texts. Students will focus on the elements of writing with specific emphasis on English conventions. They will also participate in a narrative unit implementing effective techniques. A speech unit will cover the elements of effective communication. Journaling, figurative language, and vocabulary occur daily.

## *ENGLISH 10* (2 Trimesters)

Students will analyze the author's craft and structure in a variety of written works, including fiction and non-fiction. Specific attention is given to proper use of English convention rules. Journaling, figurative language, and vocabulary occur daily.

## *ENGLISH 11* (2 Trimesters)

The main focus of the class is on American Literature. Authors and their works are selected based on their positive contributions to the literary world. If the work of literature provokes high level thinking and discussion, it makes its way to my curriculum. Everything read in the English III classroom will be discussed incorporating some form of Socratic Methodology. Quizzes and tests are weighted and will be administered after each section of reading has been discussed. The process of writing is incorporated into every phase of the class.

## *ENGLISH 12* (2 Trimesters)

English 12 emphasizes the practical skills needed for personal and business composition, and will include a vocational unit. Selections from several genres of 20th century literature will be read. Students will be required to take daily notes, discuss assigned literature and use the organizational skills acquired in their junior year. This is a reading and writing intensive course.

## *SENIOR COLLEGE PREP* (2 Trimesters)

### **RECOMMENDED to College Bound Students that maintained a strong "B" in Junior English**

This course is a survey of the literature of Great Britain. Also included will be an intensive use of grammar, composition, and rhetoric. Students are expected to submit written work each week. Both semesters have a strong focus on writing. At the conclusion of the 2-Trimester course, students will be prepared for college writing. Additional reading assignments and cultural projects will be expected.

## *ADVANCED LITERATURE* (1 Trimester)

### **OPEN TO JUNIORS AND SENIORS**

Students will read, analyze, and discuss works by Shakespeare, Thoreau, Whitman, Emerson, Poe, Capote, Sedaris, Perry, and others. Activities can include analysis and performance of poetry, application of English conventions, writing and editing creative works for publication, and digital and social media production. **This course is limited to 15 students with approval by instructor.**

## *CREATIVE COMPOSITION* (1 Trimester)

### **OPEN TO JUNIORS AND SENIORS**

This is an elective writing course. Students will write personal narratives stories, informal essays and poetry. Students will observe the world around them and develop their individual writing styles. Students must be willing to share their ideas and writing with the group for study and critique. **This course is limited to 15 students with approval by instructor.**

# ENGLISH



# ENGLISH

## *ENGLISH PROFICIENCY* (1 Trimester)

### **PLACEMENT WILL BE BASED ON DATA**

This course is designed for students who have been selected for additional practice with English exercises. Students will do similar projects as done in English 9 & 10 courses. Extra consideration is given toward English conventions, public speaking, interpretive reading, and journaling. With a selective class size, students are able to work at a work pace suitable to their needs.

## *ENGLISH CONVENTIONS WORKSHOP* (1 Trimester)

### **REQUIRED CONCURRENT ENROLLMENT IN A JUNIOR OR SENIOR ENGLISH or SOCIAL PROBLEMS**

Writing-based coursework focuses on Standard English Conventions. Conventions include sentence structure, grammar, capitalization, punctuation, organization, public speaking, and related concepts. **This course is limited to 10 students with approval by instructor.**

## *MYTHOLOGY* (1 Trimester)

### **OPEN TO JUNIORS AND SENIORS**

This course will introduce students to the origins and meanings of myths, including how cultures use myths to explain natural or social phenomenon. Students will explore the major themes, stories, characters, and archetypes present in mythologies of several different cultures. This is a highly interactive course that involves reading, presentations, group work and writing.

# FAMILY AND CONSUMER SCIENCE EDUCATION

- Basic Foods
- Advanced Foods
- Career Foods
- Food and Nutrition
- Food Science 1
- Food Science 2
- Child Development
- Early Childhood Education
- Clothing Construction
- Advanced Clothing Construction
- Fashion Design
- Housing & Interior Design
- Health
- Human Relations
- Health Occupations

## *BASIC FOODS* (1 Trimester)

This class will provide you with basic food knowledge and preparation. You will learn a variety of cooking techniques through preparing a variety of different foods.

## *ADVANCED FOODS* (1 Trimester)

### **REQUIRED PREREQUISITE - Basic Foods**

This class will allow you to build on the skills you learned in Basic Foods by learning more advanced techniques and skills in food preparation.

## *CAREER FOODS* (1 Trimester)

### **REQUIRED PREREQUISITE - Basic Foods**

Do you like to cook? Do you think you may want to be in a career involving food? In this class, you will explore the different careers related to food by learning about each career and doing some of the tasks involved.

## *FOOD AND NUTRITION* (1 Trimester)

In this class you will learn ways to cook food that tastes good and is good for you. You will learn how to cook healthy meals on a budget, quickly, and what types of foods to eat to help you perform your best in school, sports, and life in general.

## *FOOD SCIENCE 1 (Science Equivalent)* (1 Trimester)

### **REQUIRED PREREQUISITE - Earned "C" or higher in Biology I**

This class will help you to see food in a whole new way. In this class, you will explore the science of food, basic food chemistry and organic food chemistry. **This course can count for .5 credits of science.**

## *FOOD SCIENCE 2 (Science Equivalent)* (1 Trimester)

### **REQUIRED PREREQUISITE - Earned "C" or higher in Food Science 1**

This class builds on what you learned in Food Science 1. You will explore food chemistry, food microbiology and food preservation and packaging. **This course can count for .5 credits of science.**

## *CHILD DEVELOPMENT* (1 Trimester)

### **REQUIRED PREREQUISITE - Health**

Take a journey through a child's life from conception to kindergarten. Learn about what it takes to care for a child and apply the knowledge through various activities.

# FAMILY AND CONSUMER SCIENCE EDUCATION

# FAMILY AND CONSUMER SCIENCE EDUCATION

## *EARLY CHILDHOOD EDUCATION* (1 Trimester)

### **REQUIRED PREREQUISITE - Child Development**

Are you interested in pursuing a career working with children? Have you set your career goals towards the fields of child care, elementary education, human services, medical fields or parenting? This is the class for you! Interact with children in an Exploratory School Project. Learn about understanding the developmental stages of children, guiding children, designing classrooms and play spaces, teaching classroom activities, preparing meals/snacks, using SIDS prevention techniques, developing an understanding towards diversity, planning lessons to meet the needs of special students, and gaining skills towards professional development.

## *CLOTHING CONSTRUCTION* (1 Trimester)

Here's a chance to be creative! Learn sewing skills to construct your own personalized sewing projects. Students will select and construct a minimum of two projects. Students will need to provide personal supplies and materials.

## *ADVANCED CLOTHING CONSTRUCTION* (1 Trimester)

### **REQUIRED PREREQUISITE - Clothing Construction**

Build on your sewing skills! Create more advanced sewing projects and even create your own pattern and clothing item. Students will need to provide personal supplies and materials.

## *FASHION DESIGN* (1 Trimester)

Take a look at the world of fashion. Learn about fashion history, elements and principles of clothing design and what clothes and colors look best on you.

## *HOUSING AND INTERIOR DESIGN* (1 Trimester)

What are simple things that you can do to make a room feel new? You will learn the answer to this question in this class. You will also learn about different housing styles, curb appeal, the elements and principles of housing design, and what to look for when buying or renting a home.

## *HEALTH* (1 Trimester)

### **REQUIRED for 9<sup>th</sup> Grade Students**

Topics for health include: health skills; mental and emotional health; family and social health; growth development; nutrition; personal and physical health; alcohol, tobacco and other drugs; communicable and other diseases; consumer and community health; environmental health; and injury prevention and personal safety.

## *HUMAN RELATIONS* (1 Trimester)

### **REQUIRED PREREQUISITE - Health**

What is the answer to understanding relationships? Address this question by learning how to develop satisfying relations with others built on trust, respect, and cooperation. Gain knowledge on how to get along with others in both personal and professional settings and develop skills for living.

## *HEALTH OCCUPATIONS* (1 Trimester)

### **REQUIRED PREREQUISITE - Health**

In this class you will explore occupations related to health as well as gain some skills to help you get started in those occupations. You will also be able to obtain a First Aid/CPR/AED certification in this class (there will be a small fee to obtain certification) If you have an interest in working anywhere in a health related field or are even considering it as a possibility, this is the class for you!

# FAMILY AND CONSUMER SCIENCE EDUCATION

# MATHEMATICS

- Algebra I
- Algebra II
- Advanced Math
- AP Calculus AB
- Geometry
- Math Proficiency
- Technical Math

## *ALGEBRA I* (2 Trimesters)

Algebra I is the foundation of higher mathematics. The material provides context-rich problems to introduce students to concepts. Students use visual representations, manipulatives, and models to support learning. Study teams encourage math discourse and help students articulate and develop their ideas, listen to how others see problems and shape their own development and mastery and over time. Students have several opportunities to learn a skill and receive support. It is critical that the student is actively participating and doing all problems.

## *ALGEBRA II* (2 Trimesters)

**REQUIRED PREREQUISITE - Earned “C” in Geometry and Algebra (Instructor approval is required to “double up” in math.)**

In this course students will continue their study of systems, quadratics, powers and roots. Algebra II also gives the student an introduction to matrices, logarithms, trigonometric functions and complex numbers.

## *ADVANCED MATH* (2 Trimesters)

**REQUIRED PREREQUISITE - Earned “B” in Algebra II**

Advanced Math is a college preparatory course that gives a thorough background into algebraic, geometric, exponential, logarithms, circular and trigonometric functions.

## *CALCULUS* (3 Trimesters)

**REQUIRED PREREQUISITE – Earned “B” in Advanced Math**

The course develops calculus in an intuitive, conceptual manner and prepares students for the AP calculus exam. Laboratory experiments and hands-on activities are integrated throughout the curriculum as key concepts for learning and conceptual understanding. Students are expected to work collaboratively in study teams; explain; justify and present ideas; and demonstrate persistence when asked to develop difficult concepts for themselves. This calculus course will incorporate technology on a daily basis as a tool for learning. All chapters have labs and other major investigations which will rely on student’s proficiency with the graphing calculator. The course has three major activities during which the students use a CBL or CBR to collect data and analyze rates of change. Key problems also rely on the regression feature of the calculator. Since the AP exam requires students to be proficient in using a graphing calculator, this course assumes that students have access to one in class and at home.

## *GEOMETRY* (2 Trimesters)

This course builds an understanding of geometric figures and their properties. Geometry covers angle relationships, parallel lines and planes, congruent triangles, trigonometry, similar polygons, circles, coordinate geometry and constructions. There are many applications where geometry is useful, and we will discover how it is used daily.

## *MATH PROFICIENCY* (2 or 3 Trimesters)

**PLACEMENT WILL BE BASED ON DATA**

This course will provide support for students who are enrolled in Algebra and develop some of the mathematical proficiencies critical for success. If the student is not in an Algebra class then this course will focus on strengthening prior math skills and help prepare them for future math courses.

# MATHEMATICS

# MATHEMATICS

*TECHNICAL MATH* (2 Trimesters)

**OPEN TO JUNIORS AND SENIORS who have successfully passed Algebra 1 and Geometry.**

This is a course designed for students interested in a technical career OR to improve their skills before taking Algebra 2. Topics covered in this course include the basics of arithmetic, algebra, geometry, trigonometry, and statistics. Students will also work on skills needed to be accepted into technical college, military, or entering the workforce

# MUSIC

## *INSTRUMENTAL MUSIC* (3 Trimesters)

This course is designed to develop music literacy, performance, and listening skills of the student through ensemble performance of varied band repertoire. There will be an emphasis on the fundamentals of instrumental technique as students work toward developing a beautiful and characteristic sound. Students are encouraged to develop their individual technique and musicianship through various exercises, studies and music theory. However, the main focus will be learning, reading, and performing both traditional and contemporary literature.

The high school band will perform a minimum of two evening concerts per year and will be responsible for performing pep songs at selected home athletic events. Band members will be required to “march” in several parades in the Spring, Summer and Fall. Students will also have opportunities to participate in individual activities such as solo and ensemble contest, Lakeland Conference honors band and tri-state honors band.

## *VOCAL MUSIC* (3 Trimesters)

This course is designed to develop music literacy, performance and listening skills of the student through ensemble performance of varied choir repertoire. Students are encouraged to develop their singing voices, learn to sign in a choral ensemble, learn to read music, learn the basics of music history, genres and styles, develop self-discipline, concentration and cooperation. A great deal of class time is spent on vocal and musical techniques as well as performance standards and will be demonstrated in performances throughout the school year.

The high school choir will perform a minimum of two evening concerts per year and may be required to participate in other scheduled events throughout the year. Choir students will have opportunities to perform in individual activities such as solo and ensemble contest, Lakeland Conference honors choir, tri-state honors choir and Dorian Festival Choir.

# PHYSICAL EDUCATION

- Fitness For Life
- Strength And Conditioning
- Team Sports
- Individual Sports
- Individual Fitness

Mission of the department:

To provide a program of instruction for the development of the whole individual through physical activities by emphasizing the relationship between the physical, intellectual, emotional, and social well-being of the individual. The curriculum will provide experiences that will develop positive attitudes toward wellness and contribute to lifetime participation in physical activities. All Physical Education classes will include various strength, cardiovascular and flexibility activities.

## *FITNESS FOR LIFE* (1 Trimester)

### **REQUIRED for 9<sup>th</sup> Grade Students**

Students will learn about fitness and wellness. They will study the components of fitness, goal setting, guidelines for exercises and the principles of training. Also, they will learn about flexibility, cardiovascular and muscular fitness, nutrition, body composition, stress management and fitness testing. A variety of programs and activities will be used. **This course is limited to 20 students.**

## *STRENGTH AND CONDITIONING* (1 Trimester)

This class is designed to teach proper lifting techniques and training principles. The students will have an opportunity to use these techniques and principles during class. This class is ideal for students interested in becoming physically fit. **This course is limited to 16 students.**

## *TEAM SPORTS* (1 Trimester)

Team sports may include units in volleyball, basketball, kickball, soccer, ultimate football and Frisbee, softball, and four square games. **This course is limited to 28 students.**

## *INDIVIDUAL SPORTS* (1 Trimester)

Individual sports may include units in snowshoeing, cross country skiing, badminton, archery, recreational games, golf, ping pong, circuit training, pickle ball and nitro ball. **This course is limited to 16 students.**

## *INDIVIDUAL FITNESS* (1 Trimester)

Students will use or design a specific program to improve their overall fitness. Students will gain a better understanding of lifelong fitness and health to suit their abilities. Each student will set a goal and use their fitness program to meet that goal. Activities could include yoga, fitness walking/running, fitness videos, strength training, and PLT4M programs. **This course is limited to 16 students.**

# SCIENCES

- Anatomy And Physiology
- Biology
- Chemistry
- Chemistry II
- Ecology
- General Science
- Physics
- Zoology

## *ANATOMY AND PHYSIOLOGY* (2 Trimesters)

### **REQUIRED PREREQUISITE of “C” or better in Chemistry OR Instructor Approval**

This is a college prep course designed to prepare students with memorization of parts of the body and their functions, this is encouraged for those entering the medical field. Labs are used to reinforce topics covered. Topics covered in A: cytology, integumentary system, skeletal system, muscular system and nervous system. Topics covered in B: senses, blood, heart, pregnancy, growth, development and genetics. Labs are used to reinforce topics covered.

## *BIOLOGY* (2 Trimesters)

### **REQUIRED for 10<sup>th</sup> Grade Students**

Biology is the study of living organisms and how they relate to one another. Topics covered in A: macromolecules, cytology, and genetics. Projects and labs are used to reinforce concepts covered. Topics covered in B: genetic engineering, natural selection and how the Earth has changed over time and has evolved with the species that occupy it (past and current). Projects and labs are used to reinforce concepts covered.

## *CHEMISTRY*

### **REQUIRED PREREQUISITE of “C” or better in Biology and Algebra I (2 Trimesters)**

This first trimester will focus on the periodic table, patterns in the periodic table, nomenclature, and gas pressure. Laboratory exercises will be used a great deal to reinforce the concepts learned. The second half of chemistry will continue to focus on the periodic table and its trends, light, stoichiometry, the ozone, and forensic science. Laboratory exercises will be used a great deal to reinforce the concepts learned.

## *CHEMISTRY II* (1 Trimester)

### **REQUIRED PREREQUISITE of “C” or better in Chemistry OR Instructor Approval**

This class will be a continuation of Chemistry focusing on solutions, pH, equilibrium, acids and bases and nuclear chemistry.

## *ECOLOGY* (1 Trimester)

### **OPEN TO JUNIORS AND SENIORS**

This class will study the interactions between living things and their surroundings and what effects the environment has on its occupants. **This course can count for .5 credits of science toward graduation.**

## *GENERAL SCIENCE* (2 Trimesters)

### **REQUIRED for 9<sup>th</sup> Grade Students**

This class is divided into two main units: Pre-chemistry and Pre-physics. Both units will focus on how math is involved with both chemistry and physics. Laboratory exercises will be used to reinforce the concepts learned.

## *PHYSICS* (2 Trimesters)

### **OPEN TO JUNIORS AND SENIORS who had a “C” or better in Algebra**

Physics is a science that deals with mechanics and composition of our entire physical world. This course builds a background on forces, motion, kinetic theory, energy, conservation, Newton’s Laws, thermodynamics, heat,

# SCIENCES



## SCIENCES

fluids, astronomy, and many more. The lab work allows students to develop a deeper understanding of our environment, learn safe techniques, and how to apply the scientific approach to problem solving.

*ZOOLOGY* (1 trimester)

**OPEN TO JUNIORS AND SENIORS who had a "C" or better in Biology**

Zoology introduces students to the diverse animal kingdom. The lab course identifies the morphology, taxonomy, anatomy, and physiology of the seven major classes of the phylum Chordata.

# SOCIAL STUDIES

- U.S. History
- World History
- Social Problems
- Psychology
- Philosophy
- The Holocaust
- Ethnic Studies
- Legal Studies
- U.S. History II

## *U.S. HISTORY* (2 Trimesters)

### **REQUIRED for 9<sup>th</sup> Grade Students**

The course focuses on the events that laid the foundation for our Constitution and the American way of life. The curriculum is aligned with state standards with an emphasis on Common Core Discipline Literacy. Instead of filling out worksheets, students will learn to deep read numerous primary sources and formulate generalizations. Utilizing these generalizations, students will develop a concise understanding of who we are as Americans and how did we get to this point. The assignments will be interesting and challenging with a great deal of latitude for students to develop the lessons themselves. Each day of learning will be different and students will find that they will like coming to history class.

## *WORLD HISTORY* (2 Trimesters)

### **REQUIRED for 10<sup>th</sup> Grade Students**

World History is the story of mankind. In this class, students study the global connections that shape the world. This class not only focuses on events, but on the concepts such as government, religion, culture, and perspective.

## *SOCIAL PROBLEMS* (2 Trimesters)

### **REQUIRED for 12<sup>th</sup> Grade Students**

The goal of Social Problems is to show students the benefits of civic engagement and to provide them with the knowledge and tools to be civically minded citizens. The first trimester focuses on the government in the United States. We examine government interactions at federal, state, and local levels. Students learn how they can be involved in the process. During the second trimester students examine the laws of economics and how they explain the world around them.

## ROTATIONAL YEAR BASIS:

### *PSYCHOLOGY* (1 Trimester)

This is an overview course for the social science of psychology. The goal of this class is to develop an understanding of the basic biology and anatomy of the human brain. Additionally, we will aim to understand why people act and behave the way they do. We will seek to answer such questions as what determines our personality? How do groups affect the way we act? What are mental illnesses and how do they impact people?

### *PHILOSOPHY* (1 Trimester)

Philosophy is the study of the meaning of life. Why are we here? What determines our futures? How do we know what we know? Do we know anything at all? In this class we will study famous philosophers and philosophical concepts through the lens of history and film. Please be prepared to openly discuss life's deepest questions when you sign up for this course.

### *THE HOLOCAUST* (1 Trimester)

This class will be in depth study of the world's most horrific and tragic events--the Holocaust. We will study the rise of the Nazis, the methods they used to strip Jewish people of their humanity, and how they carried out one of the world's worst crimes against humanity. We will also study how the world reacted to this event, and other events in World history that share similarities with the Holocaust. We can hopefully learn some valuable lessons, so that we are able to spot and stop any event like the Holocaust from ever happening again.

# SOCIAL STUDIES

## SOCIAL STUDIES

### *ETHNIC STUDIES* (1 Trimester)

This course will cover an array of diverse cultures inside of America and outside of America. We will learn about the differences between cultures including religion, family structure, traditions, beliefs, and rituals. We will also study the history of those groups and how it has impacted their standing in the world today. Students will be encouraged to come to class with an open mind, a willingness to have class discussions, and the ability to put yourself in someone else's shoes. This is a class for those who wish to broaden their world view.

### *LEGAL STUDIES* (1 Trimester)

This course will cover the basics of each of the major types of law. These include Criminal Law, Constitutional Law, and Civil Law. In this class we will study courtroom procedure, case law, and current day questions facing the legal system. Students will research major court decisions, analyze evidence, and engage in a series of mock trials which include roles like lawyers, witnesses, and jury members. This is a course for those interested in law, the criminal justice system, or those who just like to debate.

### *US HISTORY II* (1 Trimester)

This class is a continuation of US History I. We will pick up American history after the end of WWII. We will study modern American History. The class seeks to investigate how America became the superpower it is today, how different groups acquired civil rights over time, which groups still struggle for civil rights, and how America has used its power to advance its interests in the world. Students will analyze primary sources weekly, develop their writing skills and engage in whole class discussions about events in American history and their lasting legacy.

## SOCIAL STUDIES

# SPANISH

- Spanish I
- Spanish II
- Spanish III
- Spanish IV

The main purpose of studying a foreign language is to learn the language and to be able to communicate orally in the language in real life situations. There is a need to study foreign languages. We must think of ourselves as citizens of the world and develop an understanding of people who speak other languages and have values different from ours. The class activities provide practice in all four basic language skills: listening, speaking, reading, and writing. The program also encourages cultural awareness--that is, the behavior, beliefs, and values of the people in Spanish speaking countries.

## *SPANISH I* (2 Trimesters)

Spanish I students should master Spanish pronunciation. Each text unit revolves around school, family, sports, shopping, and so forth. The material presented on each theme is practical and useful; you will be able to make use of the vocabulary and cultural information if you ever travel or live in a Spanish speaking country.

The primary objective in Spanish I, besides pronunciation, is to practice and improve number and gender in Spanish, as well as be able to use SER and ESTAR correctly. In addition to the basic program, students will use the internet to research Hispanic cultures and participate in an online mystery based in Spain: Mi Vida Loca; this will be done once a month all year. Students will read short stories in Revista Literal and create their own. Students will create reflection journals.

## *SPANISH II* (2 Trimesters)

Each level of Spanish prepares the student further. A review of previous work reinforces the student's knowledge of vocabulary and grammar. Students will be introduced to more complex grammar, other tenses of verbs and vocabulary that is more challenging. Students will create many projects throughout the course that not only reinforce grammar concepts, but are also centered on Hispanic cultural traditions and customs. One major project is the Spanish-speaking country showcase. Students will choose a Spanish-speaking country to study extensively, make a food that is popular from that country and then share their findings with staff and students during the annual showcase.

## *SPANISH III* (2 Trimesters)

### **REQUIRED PREREQUISITE of "C" Average in Spanish II**

More emphasis is placed on reading and writing during the 3rd and 4th year of language study. Students should be able to express themselves freely and independently. New grammatical structures of an advanced level are studied. A great deal of independent reading gives the student further insight into many more aspects of the Hispanic culture. Students will also practice writing in Spanish with the use of a reflection journal.

## *SPANISH IV* (2 Trimesters)

### **REQUIRED PREREQUISITE of "B" Average in Spanish III**

A wide variety of reading materials is used during level four. Writing at the fourth level is expanded greatly. The students will be able to express an opinion, write descriptions and give orders orally and in writing. Students will research Spain and the Bullfight as well as read and comment on current events around the Hispanic world. Students will read the novel Caminos Peligrosos based in the Yucatán Peninsula, Mexico.

# TECHNOLOGY EDUCATION

- Intro to AutoCADD Inventor
- AutoCADD Inventor I
- CAD Basics
- SolidWorks Intro to CAD/CAM
- Robotics
- General Metals I, II
- Machine & Tool
- Welding
- Manufacturing
- Print Reading - Machine Trades
- Print Reading- Welding Trades
- Intro to Architecture
- Architecture I
- Building Modeling
- Home Maintenance
- Wood Working Technology
- Home Wood Furnishing
- Cabinetmaking

Mission of the department:

--to develop in each student an active interest in industrial careers and in the methods and problems of industrial production.

--to develop in each student the ability to work and communicate with fellow workers through shop organization.

--to develop in each student desirable mental and physical attitudes.

--to develop in each student the appreciation of good design and workmanship and the abilities to select, care for, and use industrial products as wise consumers.

--to develop in each student an understanding of drawings, blueprints, and mastery of equipment in the industry.

--to develop in each student basic skill in the use and care of common tools and machinery.

**NOTE: All personal projects made in the Tech. Ed. Department MUST BE PAID FOR PRIOR TO REMOVAL FROM SCHOOL.**

## *INTRO TO AUTOCADD INVENTOR* (1 Trimester)

In this course we will study the graphic language used by industry. Units of study will include some freehand drawing, but most of the class will be spent introducing Computer Aided Drafting and Design (CADD). Using a computer drawing program, we will emphasize drafting techniques, multi-view drawing and dimensioning as we study 2D mechanical design. **This class is limited to 12 students.**

## *AUTOCADD INVENTOR I* (1 Trimester)

### **REQUIRED PREREQUISITE - INTRO TO AUTOCADD INVENTOR**

Students will be exposed to advanced drafting skills. This course will emphasize 3D drawing, which has become an important part of the design process for any product in industries today. In this course we will explore 3D drawings for mechanical design. Students will re-engineer a hydraulic robot arm to create their own design, plans and working model using Inventor.

## *CAD BASICS* (1 Trimester) **(Transcribed Credit—Free College Credit -WITC)**

This course offers instruction on individual computer workstations in a computer lab. This computer-aided drafting (CAD) instruction uses SolidWorks software that is capable of creating 3D drawings. In this course you will spend a majority of the time creating 3D models and exploring the concepts of working in 3D space. Students will create, complete a fully dimensioned 3-View part prints ready to be transferred to paper.

## *SOLIDWORKS INTRO TO CAD/CAM* (1 Trimester)

This course will introduce students to computer-aided drafting (CAD) and computer-aided machining (CAM). Students will use appropriate CAD software to prepare mechanical drawings. This will include but not limited to remaking of project prints already done in the school to new ideas of projects. They will be introduced to and understand the basic set up and running of CAD/CAM equipment.

# TECHNOLOGY EDUCATION

# TECHNOLOGY EDUCATION

## *ROBOTICS* (1 Trimester)

Robotics is for students who are interested in the design, engineering and programming of robots or another technical career held such as automated manufacturing. This course is designed to explore the past, current and future use of automation technology in industry and everyday use. The students will receive a comprehensive overview of robotic systems and the subsystems that comprise them. They will have the privilege to get “hands on” experience with programming and wiring. Also, in this course they will have the “hands-on” approach to introduce the basic concepts of robotics, focusing on the construction and programming of autonomous mobile robots.

## *GENERAL METALS I* (1 Trimester)

General Metals I units of study will include common metals and their properties, Arc Welding, Oxy-Acetylene Welding, Hand Tools, Bench Work, Layout Tools, Semi-Precision and Precision Measurement, the Lathe, the Power Hacksaw, and the Vertical Band Saw. Equal emphasis is placed upon practical manual skills and the book work aspects of metal working: theory and knowledge. A well- equipped metal working laboratory will provide students exposure to a hands on experience in welding, brazing, bench work, and machine tool metalworking.

## *GENERAL METALS II, III* (1 Trimester)

### **REQUIRED PREREQUISITE - General Metals I**

This class will include a review of topics presented in Metals I plus Vernier measuring tools, threads and thread cutting, abrasives, the surface grinder, and the milling machine. Students whose future plans include employment as a skilled metal worker should strongly consider this course.

## *MACHINE AND TOOL* (1 Trimester) (**Transcribed Credit—Free College Credit -WITC**)

### **REQUIRED PREREQUISITE - General Metals 1**

This class will include a review of topics presented in Metals I plus Vernier measuring tools, threads and thread cutting, abrasives, the surface grinder, and the milling machine. Students whose future plans include employment as a skilled metal worker should strongly consider this course.

## *WELDING* (1 Trimester)

### **REQUIRED PREREQUISITE - General Metals 1**

Students interested in this course must have a " or consent of instructor. Arc, Oxy-Acetylene, Mig and Tig Welding skills will be tested on an advanced level. Equal emphasis is placed upon practical manual skills and of reading of welding plans along with aspects of metal working: theory and knowledge. These skills will be put to the test with planned projects.

## *MANUFACTURING* (1 Trimester)

Of all of the courses offered, this one is a little different than most it combines the business aspect of a company along with the production aspect. This gives the students a firsthand experience as to how a company works and is ran. During this course, the students will research and develop a product, build a company, produce the product and sell it to the community for profit. Each member of the company will receive money based on the company's success. If you're interested in business and/or building things, this is the class for you.

## *PRINT READING FOR MACHINE TRADES* (**Transcribed Credit—Free College Credit - WITC**) **REQUIRED PREREQUISITE - Algebra**

This course will cover the basic principles of print reading for machine trades. The emphasis is on interpreting standard lines and symbols in single- and multiple-view working drawings. Topics include print reading procedures, drawing changes, machining specifications, and the reading of prints in specialized areas including ANSI and ISO standards. Strongly recommend a basic understanding of mathematics concepts.

# TECHNOLOGY EDUCATION

# TECHNOLOGY EDUCATION

## ***PRINT READING- WELDING TRADES (Advanced Standing Credit -WITC) REQUIRED***

### **PREREQUISITE - Algebra**

This course will cover the basic principles of print reading for welding trades. Topics include print reading procedures, drawing changes, welding specifications, and the reading of prints in specialized areas. Also verify structural shapes on bill of materials. Strongly recommend a basic understanding of mathematics concepts. We will be converting measurements and drawing welding joints with welding symbols.

## ***INTRO TO ARCHITECTURE (1 Trimester)***

This course will study the basic layouts of a house, apartments, and commercial buildings. We will create basic floor plans with walls, doors and windows. Specialty objects such as column or ceiling grids, stairs and railings along with adding furniture, fixtures and equipment. The students will have an opportunity to design their own dream house.

## ***ARCHITECTURE (1 Trimester)***

### **REQUIRED PREREQUISITE - INTRO TO ARCHITURE**

This course will go more in-depth on how buildings are laid out and truly built. They will study the proper studding techniques of buildings including doors, windows, and openings. Proper studding of walls and spacing of floors, will be looked at. The understanding of different roof pitches and designs to how they are built. They will also look at different styles of buildings from houses, cabins, garages, and sheds.

## ***BUILDING MODELING (1 Trimester)***

### **REQUIRED PREREQUISITE - ARCHITURE**

The students will take what they have learned in previous courses and build a model of a building of their choosing to a scale. This model can be of a house, barn or shed but proper building practices will be used. They will make a full material list and price cost of a project. This model will start as a computer based drawing and will migrate to a hand drawing with multiple views.

## ***HOME MAINTENANCE (1 Trimester)***

Students will have the opportunity to inquire, explore, examine, analyze, and evaluate concepts related to basic home maintenance. They will learn the basics of purchasing and renting a home and also the basic repairs needed in a house. This is including but not limited to, plumbing, electric, drywall repair, flooring and general interior and exterior fixes.

## ***WOODWORKING TECHNOLOGY (1 Trimester)***

Students will learn the fundamentals of woodworking technology, safety techniques in woodworking and tool operation, understanding the particular tools and equipment used in woodworking and the principles by which such tools are most efficiently operated. The basic fundamentals of woodworking will be applied through student planned and built projects. Students will have the opportunity to build one assigned project. Careers in the woodworking industry will also be discussed. **Students may need to purchase some materials for projects in this class.**

## ***HOME WOOD FURNISHING (1 Trimester)***

### **REQUIRED PREREQUISITE - Woodworking Technology OR Consent of Instructor**

Students will learn the fundamentals of products to furnish a home, safety techniques in woodworking and tool operation. Understanding the particular tools and equipment used in woodworking will also be reinforced. The basic fundamentals of using hidden fasteners to make advanced woodworking projects will be applied through student planned and built projects. Students will have the opportunity to build assigned projects and if time allows design their own project. **Students may need to purchase some materials for projects in this class.**

# TECHNOLOGY EDUCATION

# TECHNOLOGY EDUCATION

## *CABINETMAKING* (1 Trimester)

### **REQUIRED PREREQUISITE - Woodworking Technology OR Consent of Instructor**

Students will learn the fundamentals of cabinetmaking technology, safety techniques in woodworking and tool operation. Understanding the particular tools and equipment used in woodworking will be reinforced. The basic fundamentals of cabinetmaking will be applied through student planned and built projects. Students will have the opportunity to build assigned projects and design their own project. **Students may need to purchase some materials for projects in this class**



# FOUR YEAR HIGH SCHOOL COURSE PLAN

Name \_\_\_\_\_

GRADE 9 Year_____	GRADE 10 Year_____	GRADE 11 Year_____	GRADE 12 Year_____
<b>ENGLISH</b> 9 A & B	<b>ENGLISH</b> 10 A & B	<b>ENGLISH</b> 11 A & B	<b>ENGLISH</b> 12 A & B <b>OR</b> Senior College Prep A & B
<b>HISTORY</b> U.S. History A & B	<b>HISTORY</b> World History A & B		<b>HISTORY</b> Social Problems A - Civics Social Problems B - Economics
<b>MATH</b> Algebra A & B	<b>MATH</b> Geometry A & B	<b>MATH</b> (in 11 <sup>th</sup> or 12 <sup>th</sup> Grade) Algebra II A & B <b>OR</b> Technical Math A & B	
<b>SCIENCE</b> Gen Science – Pre Physics Gen Science –Pre Chemistry	<b>SCIENCE</b> Biology A & B	<b>SCIENCE</b> (in 11 <sup>th</sup> or 12 <sup>th</sup> Grade) Chemistry A & B <b>OR</b> Physics A & B <b>OR</b> Food Science <b>and</b> Ecology or Animal Science	
<b>PHYS ED</b> Fitness for Life	<b>PHYS ED</b> Phy Ed Elective	<b>PHYS ED</b> Phy Ed Elective	
<b>HEALTH</b>		<b>PERSONAL FINANCE</b>	
<b>ELECTIVES – 4 credits (8 classes)</b> Agriculture, Art, Business, English, FCSE, Maths, Music, Phys Eds, Sciences, Social Studies, Spanish, Technology  Your Selections: 1. _____ 2. _____ 3. _____ 4. _____ 5. _____ 6. _____ 7. _____ 8. _____	<b>ELECTIVES – 4 credits (8 classes)</b> Agriculture, Art, Business, English, FCSE, Maths, Music, Phys Eds, Sciences, Social Studies, Spanish, Technology  Your Selections: 1. _____ 2. _____ 3. _____ 4. _____ 5. _____ 6. _____ 7. _____ 8. _____	<b>ELECTIVES – 4 credits (8 classes)</b> Agriculture, Art, Business, English, FCSE, Maths, Music, Phys Eds, Sciences, Social Studies, Spanish, Technology  Your Selections: 1. _____ 2. _____ 3. _____ 4. _____ 5. _____ 6. _____ 7. _____ 8. _____	<b>ELECTIVES – 3.5 credits (7 classes)</b> Agriculture, Art, Business, English, FCSE, Maths, Music, Phys Eds, Sciences, Social Studies, Spanish, Technology  Your Selections: 1. _____ 2. _____ 3. _____ 4. _____ 5. _____ 6. _____ 7. _____

\_\_\_\_\_  
Parent Signature

\_\_\_\_\_  
Parent Signature

\_\_\_\_\_  
Parent Signature

\_\_\_\_\_  
Parent Signature

# ELECTIVE COURSES

## Agriculture

- 9-12 Ag Construction
- 10-12 Advanced. Ag Construction
- 9-12 Animal Science (Science Equivalent)
- 10-12 Biotechnology
- 9-12 Conservation of Natural Resources
- 10-12 Forestry
- 9-12 Horticulture
- 10-12 Advanced Horticulture
- 10-12 Power Mechanics
- 10-12 Production Agriculture
- 9-12 SAE Immersion
- 9-12 Small Engine Maintenance
- 10-12 Wildlife Management

## Art (may be subject to rotational years)

- 9-12 Art I
- 10-12 Art II
- 11-12 Art III
- 12 Art IV
- 10-12 Advanced Drawing
- 11-12 Advanced Drawing II
- 10-12 Sculpture
- 11-12 Sculpture II
- 10-12 Yearbook

## Business Ed

- 9-12 Accounting I
- 10-12 Accounting II
- 9-12 Business Law
- 10-12 Computer Applications I
- 10-12 Computer Applications II
- 11-12 Employability Skills
- 9-12 Information Processing
- 9-12 Intro to Business
- 10-12 Personal Finance
- 9-12 Web Page Dev I
- 10-12 Web Page Dev II
- 9-12 Video Game Development & Marketing

## English

- 11-12 Advanced Literature
- 11-12 Creative Composition
- 11-12 English Conventions Workshop
- 11-12 Mythology

## Family & Consumer Science Ed (may be subject to rotational years)

- 9-12 Basic Foods
- 10-12 Advanced Foods
- 10-12 Career Foods
- 9-12 Food and Nutrition
- 11-12 Food Science 1 (Science Equivalent)
- 11-12 Food Science 2 (Science Equivalent)
- 10-12 Child Development
- 10-12 Early Childhood Education
- 9-12 Clothing Construction
- 10-12 Advanced Clothing Construction
- 9-12 Fashion & Design
- 9-12 Housing & Interior Design
- 10-12 Human Relations
- 10-12 Health Occupations

## Math

- 11-12 Algebra II A & B
- 11-12 Technical Math A & B
- 11-12 Advanced Math A & B

## Music

- 9-12 Instrumental Music
- 9-12 Vocal Music

## Physical Ed

- 9 Fitness for Life
- 9-12 Individual Fitness
- 9-12 Individual Sports
- 9-12 Strength & Conditioning
- 9-12 Team Sports

## WIN Distance Learning

- 11-12 Medical Terminology

## Science

- 11-12 Anatomy & Physiology
- 11-12 Chemistry
- 12 Chemistry II
- 11-12 Ecology
- 11-12 Physics
- 11-12 Zoology

## Social Studies (rotational years)

- 9-12 Psychology \*
- 9-12 Philosophy \*
- 9-12 The Holocaust \*
- 9-12 Ethnic Studies
- 9-12 Legal Studies
- 9-12 US History II

## Spanish

- 9-12 Spanish I
- 10-12 Spanish II
- 11-12 Spanish III
- 12 Spanish IV

## Technology Ed

- 9-12 Intro to AutoCADD Inventor
- 10-12 AutoCADD Inventor
- 9-12 CAD Basics
- 9-12 SolidWorks Intro to CAD/CAM
- 9-12 Robotics
- 9-12 General Metals I
- 10-12 General Metals II
- 10-12 Machine & Tool
- 10-12 Welding
- 10-12 Manufacturing
- 10-12 Print Reading – Machine Trades
- 10-12 Print Reading – Welding Trades
- 9-12 Intro to Architecture
- 10-12 Architecture
- 10-12 Building Modeling
- 9-12 Home Maintenance
- 9-12 Woodworking Technology
- 10-12 Home Wood Furnishing
- 10-12 Cabinetmaking