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MARION LOCAL HIGH SCHOOL CURRICULUM COURSE DESCRIPTION BOOKLET

2017 - 2018

INTRODUCTION

Welcome to Marion Local High School! This curriculum handbook is to assist students and their parents in the selection of classes taken in high school. This book provides a brief description of the courses offered at Marion Local High School and suggested guidelines for planning a meaningful four-year high school program. It is hoped that you will use the information provided here, along with help from your parents, teachers, counselor, and principal, in developing a meaningful curriculum that will meet your needs whether you're planning to attend college, enter the workforce, or join the military after high school.

(Due to the required early production of this booklet, some of the course offerings listed may be altered or dropped.)

ACCREDITATION

Marion Local High School is accredited by the Ohio State Department of Education.

GRADE LEVEL

Marion Local High School grade levels are assigned by academic credits earned.

Freshman	completed eighth grade
Sophomore	completed at least 5 credits
Junior	completed at least 10 credits
Senior	completed at least 16 credits
Graduate	completed at least 21 credits in the required areas and accumulated 18 points on the Next Generation Assessments.

GRADING SCALE

<u>Letter</u>	<u>Percentage</u>	<u>Points for most classes</u>	<u>Points for A.P. Class</u>
A	95-100	4.00	4.33
A-	93-94	3.67	4.00
B+	91-92	3.33	3.67
B	87-90	3.00	3.33
B-	85-86	2.67	3.00
C+	83-84	2.33	2.67
C	78-82	2.00	2.33
C-	76-77	1.67	2.00
D+	74-75	1.33	1.67
D	72-73	1.00	1.33
D-	70-71	0.67	1.00
F	0-69	0.00	0.00

Grade Point Averages are calculated using these points. They begin to be calculated starting with the very first grades a student receives. That is why it is important to get a good start.

GRADUATION REQUIREMENTS

Graduation requirements are the least you have to do to get by....a minimum requirement. 21 credits are required for all graduating classes. They must include the following:

English	4 credits
Math	4 credits (Alg. I, Geometry, Alg. II and more)
Science	3 credits (1 must be biological and 1 must be physical science)
Social St.	3 credits (must have American History, Amer. Government, and World History)
*Phys. Ed.	½ credit (this is two ¼ credit classes)
Health	½ credit
Pers.Finance	½ credit
**Band/Art	1 credit (this is also referred to as a “fine arts credit”)
Electives	4.5 credits

*The two 1/4 credit P.E. classes will be waived if a student participates in 2 seasons of sports, or cheerleading, or two years of band. These must be Marion Local sponsored activities.

**The fine arts requirement will be waived if a student spends one year in the agriculture program or a TriStar program. (However, keep in mind that colleges do not recognize this as a fine arts credit.)

GRADUATION REQUIREMENTS

Students are required to take “end of course” exams. The courses in which students will take these exams are: English I and II, Algebra I, Geometry, Biology, American History and Government. Students will accumulate points for these exams based on how they perform.

Advanced – 5 points
Accelerated – 4 points
Proficient – 3 points
Basic – 2 points
Limited – 1 point

Students must earn a cumulative of 18 graduation points. To ensure the student is well rounded, they must earn a minimum of four points in math, four points in English and six points across science and social studies.

College-Preparatory Requirements

College entrance requirements may vary from one college or university to the next. However, most bachelor degree-granting institutions require students to have completed the following:

English	4 units (college prep English)
Math	4 units (Alg. I, Geometry, Alg. II and more)
Science	4 units (Biology, Chemistry and laboratory sciences)
Social Studies	3 units
Foreign Lang.	2 units of same language
Visual/Performing Art	1 unit

Please understand that these requirements are meant to be taken as recommended guidelines for the college-preparatory student. Some Ohio universities may require a unit more or less in one area or another, but most of the colleges follow these standards. Some colleges will choose not to enroll a student if they do not meet more than one of the above criteria. Some colleges will require that the areas that are not completed in high school will be completed in the first year of college enrollment.

Honors Diploma

College-Bound Student Honors

The college-bound student, whether actually intending to attend a post-secondary institution or not, shall be required to meet at least *7 of the following 8 criteria* in order to receive an Honors Diploma:

1. Earn four units of English.
2. Earn four units of mathematics, which shall include at least the competencies obtained in Algebra I, Algebra II, and Geometry.
3. Earn four units of science, including physics and chemistry.
4. Earn four units in social studies.
5. Earn either three units of one foreign language or two units each in two different foreign languages.
6. Earn one unit in fine arts.
7. Maintain an overall high school grade point average of at least 3.5 on a 4.0 scale.
8. Obtain a composite score of 27 on the ACT Test or the equivalent score (1210) on the Scholastic Aptitude Test (SAT)

Vocational-Bound Student Honors Diploma Criteria

The student who completes an intensive vocational or technical curriculum in high school shall meet at least *7 of the following 8 criteria* in order to receive an Honors Diploma:

1. Earn four units of English
2. Earn four units of mathematics, which will include Algebra I, Geometry, and Algebra II.
3. Earn four units of science, including physics and chemistry.
4. Earn four units of social studies.
5. Earn four units of career-technical minimum. Program must lead to an industry recognized credential, apprenticeship or be part of an articulated pathway which can lead to post secondary credit.
6. Maintain an overall high school grade point average of 3.5 on a 4.0 scale.
7. Obtain a composite score of 27 on the ACT or the equivalent (1210) on the SAT.
8. Achieve the proficiency benchmark established for the appropriate Ohio Career-Technical Competency Assessment or the equivalent.

College Credit Plus

College Credit Plus provides high school students the opportunity to earn both high school and college credits for college classes that are taken during high school. While there are many benefits to this program, there are also many responsibilities and risks. All students must qualify for the program based upon the college requirements for entry into the program. All colleges have different standards. Each year in February, there is an evening meeting to explain the entire program. Representatives from area colleges are also in attendance to answer questions.

The following is an example of a Career Pathway that a student may choose to follow in the College Credit Plus program. This pathway is from Edison Community College and is intended for students interested in nursing. (*Following a career pathway is not required.*)

Nursing Career Pathway

- 4 years College Preparatory English
- AP English
- Pre-Calculus
- AP Statistics
- Microsoft Suite I & II
- Psychology
- Sociology
- Human Bio/Anatomy and Physiology
- Organic Chemistry

AGRICULTURAL DEPARTMENT

Agriculture, Food and Natural Resources (AFNR)

Credit: 1.25

Term: one year

Grade levels: 9, 10, 11, 12

Pre/co-requisite: Must take biology concurrently or have had biology

This course was previously called "Plant and Animal Bioscience". In this course, students will learn fundamental knowledge and skills in food science, natural resource management, animal science and management, plant and horticultural science and biotechnology. Students will be introduced to the FFA organization and begin development of their leadership ability.

Science and Technology of Food (Food Science)

Credit: 1.25

Term: one year

Grade levels: 10, 11, 12

Prerequisites: AFNR strongly suggested

Students will apply the principles of chemistry, microbiology through processing, preservation and analysis of food products. Learners will process and preserve food products using mechanical, biological, and chemical processing methods. Food safety, sanitation, and quality assurance will be practiced.

World food production, and health, food borne disease, and food security will be examined.

FFA participation is NOT required when taking this class.

Agronomic Systems (Agronomy)

Credit: 1.25

Term: one year

Grade levels: 10, 11, 12

Prerequisites: AFNR or Food Science

This course focuses on the knowledge and skills required to research, develop, produce and market major agricultural and horticultural crops. Cultural and sustainable production practices will be examined. Students will apply scientific knowledge of plant development, nutrition, and growth regulation. The knowledge and skills needed to manage soils, water, and pests related to agronomic crops will be learned. Students will employ communication, business, and management strategies for the industry.

Animal Nutrition, Health and Production (Animal Science)

Credit: 1.25

Term: one year

Grade levels: 10, 11, 12

Prerequisites: AFNR or Food Science

In this course the learner will integrate and apply principles of nutritional management for various classes of animals in relation to responsible animal behavior, welfare, and husbandry practices. Learners will analyze nutritional content and quality of feeds; formulate, prepare, and investigate rations; develop feeding recommendations; identify deficiency symptoms and implement corrective methods as needed. The learner will develop animal care and management plans that reflect the classification and ecological relationships of animals and follow business management best practices and legal compliance. Learners will monitor and evaluate the quality of the animal habitat and estimate carrying capacity as it relates to the impact of the environment and animal health.

Agriculture and Environmental Business Management

Credit: 1.25

Term: one year

Grade Levels: 11, 12

Prerequisites: AFNR or Food Science

In this course, learners will examine the elements of business; identify organizational management, functions and goals; and identify and apply necessary management skills. Learners will develop business plans including financial reports and strategic goals for opening a new venture or purchasing an existing business. Learners will use marketing concepts to evaluate the marketing environment and develop a

marketing plan. An emphasis will be given to developing effective and efficient marketing channels, product approaches, promotion and pricing strategies. Learners will practice customer service and sales techniques and apply the concepts of ethics and professionalism in the work place while understanding the scope and importance of business regulations and related issues.

Agriculture and Environmental Systems Capstone (work release)

Credit: 1

Term: one year

Grade levels: 12

Prerequisite or Co-requisite: Students participating in the Ag Capstone class must have completed one agriculture class PRIOR TO their senior year. In addition, an agriculture class must be taken concurrently with the capstone class.

The capstone course is an opportunity for students to solve problems and demonstrate that they have achieved the requisite knowledge and skills in their chosen career field. The course is designed to assess cognitive, affective, and psychomotor learning and to do so in a student-centered and student-directed manner that requires the command, analysis and synthesis of knowledge and skills. The capstone requires the application of learning to a project that serves as an instrument of evaluation.

ART DEPARTMENT

Art I

Prerequisite: None

Credits: 1

Term: one year

Grade Level: 9, 10, 11, 12

This class meets the fine arts requirement for graduation. Students will develop artistic skills using a variety of media in order to express ideas and feelings. They will understand the significance of historical and cultural achievements in the visual arts. Students will also explore various art careers and present information about numerous artists. Students will explore the drawing media, painting media, ceramics, sculpture, and mixed media.

Art II

Prerequisite: Art I

Credits: ½

Term: one semester

Grade Level: 10, 11, 12

Students will focus on learning advanced drawing, painting, and mixed media techniques. They will explore graphite, charcoal, colored pencils, pastel, watercolor, acrylic, and collage. Students will explore the historical and cultural achievements in art and will respond visually and verbally. At the end of the course, students will research one artist of their choosing in-depth and present their findings to the class.

Graphic Design I

Prerequisite: Art I (or currently be taking Art I)

Credit: 1/2

Term: one semester

Grade Level: 10, 11, 12

This class will introduce students to the following Adobe programs: Illustrator and Photoshop. Students will also explore basic digital photography and the elements and principles of design in relation to graphic arts. Some projects will include manipulating photographs, drawing graphics, the art show poster, designing logos and creating advertisements.

Graphic Design II

Prerequisite: Art I (or currently be taking Art I) & Graphic Design I

Credit: ½

Term: one semester

Grade Level: 10, 11, 12

This class will further explore the following Adobe programs: Photoshop and Illustrator. More advanced and difficult projects will be assigned. Students will be required to work independently.

Drawing I

Prerequisite: Art I (or currently taking Art I)

Credits: ½

Term: Fall Semester

Grade Level: 9, 10, 11, 12

An independent course, students will enhance their drawing skills from Art I. A variety of mediums will be explored, including contrasto, scratchboard, graphite pencil, charcoal, ink, colored pencil, chalk pastel, and oil pastels. Students will draw from life as they keep a sketchbook and complete a weekly observatory drawing using pencils. **This class is highly recommended if you are planning a career in an art field!**

Drawing II

Prerequisite: Art I, Drawing I

Credits: ½

Term: Fall Semester

Grade Level: 9, 10, 11, 12

Drawing II is designed to expand on the skills developed in Drawing I with larger projects that experiment with the techniques and content of media and subjects on a variety of services. Assignments in contrasto, scratchboard, graphite pencil, charcoal, ink, colored pencil, chalk pastel and oil pastels will be further explored, with an emphasis in mixing these mediums effectively. Students will draw from life as they keep a sketchbook and complete a weekly observatory drawing using a variety of mediums. **This class is highly recommended if you are planning a career in an art field!**

Drawing III

Prerequisite: Art I, Drawing I, Drawing II

Credits: ½

Term: Fall Semester

Grade Level: 10, 11, 12

Drawing III is designed to expand on the skills developed in Drawing I and Drawing II with a significant increase in the artists' personal style and emphasis on their strengths. The student will further pursue advanced solutions to drawing problems. Classwork will involve experimentation with advanced techniques and media. Students will be working independently with guidance and propose their projects to the instructor, similar to Portfolio, but all 2-dimensional work. Students will draw from life as they keep a sketchbook and complete a weekly observatory drawing using mixed mediums and preparatory sketches and notes.

Painting I

Prerequisite: Art I, Drawing I

Credits: ½

Term: Spring Semester

Grade Level: 9, 10, 11, 12

An independent course, students will enhance their painting skills from Art I. They will use watercolor and acrylic mediums and be introduced to mixing these mediums. Students will continue to explore historical and cultural achievements in painting as well as various painting styles and subjects. Students will complete one small practice painting per week, where the emphasis is on trying new brushes and techniques.

Painting II

Prerequisite: Art I, Drawing I, Painting I

Credits: ½

Term: Spring Semester

Grade Level: 10, 11, 12

Students will work independently with guidance from the instructor to enhance their painting skills from Painting I. They will use watercolor and acrylic mediums and focus on mixing mediums, larger artworks, and a variety of surfaces being painted on. Students will advance their exploration in historical and cultural achievements in painting as well as various painting styles and subjects. Students will keep a painting sketchbook, where they will experiment in mixing painting and drawing mediums.

Photography I

Prerequisite: none

Credits: ½

Terms: Fall semester only

Grade Level: 11, 12

Students will study the elements of art and principles of design in order to learn composition skills to take effective digital photos. They will be introduced to the darkroom and learn to process and print black and white film. The history of photography will be briefly explored and students will discuss numerous photographers. Adobe Photoshop, an advanced computer graphic program, will be introduced. Students will manipulate and enhance their images using the tools provided by the program.

Photography II

Prerequisite: Photography I

Credits: ½

Terms: Spring semester only

Grade Level: 11,12

Students will utilize more advanced black and white developing techniques during an independent course. Students will also be required to enhance and manipulate images in Adobe Photoshop.

Photography III

Prerequisite: Photography I, Photography II

Credits: ½

Terms: Spring semester only

Grade Level: 12 only

This independent course is for students who are interested in photography as a career. Students will continue to explore advanced black and white photo developing and printing techniques along with utilizing Adobe Photoshop. Students will also utilize the digital cameras and create a variety of effects on their images and complex projects.

Yearbook

Prerequisite: Approval from advisor through application process

Credits: 1

Term: one year

Grade Level: 10, 11, 12

In this course, we will produce the yearbook, a yearly publication designed by students. Students will develop skills in journalism and photography, design and layout, and advertisement sales promotion. Students must complete an application that requires the signatures of three teachers in order to be considered for enrollment.

Ceramics I

Prerequisite: None

Credits: ½

Term: Spring semester only

Grade Level: 10, 11, 12

This course will explore hand building techniques, such as creating coils, pinch pots, and free form slab construction. Students will learn proper vocabulary terms relating to ceramics and firing. Students will

enhance their pottery with the use of colored glazes. They will also be introduced to slip and armature molds, throwing on the Potter's Wheel, and texture techniques. Students will participate in class critiques and self-assess their artwork.

Ceramics II

Prerequisite: Ceramics I

Credits: ½

Terms: Spring semester only

Grade Level: 11, 12

Students will utilize more advanced techniques during this independent course. Projects will be larger and more complicated. This will include throwing on the wheel, using various types of molds, hand building, and mixed methods.

Portfolio

Prerequisite: Art I, Art II, & Painting, or Drawing OR Art I, Ceramics I, Ceramics II

Credits: ½

Term: Fall or Spring Semester

Grade Level: 12 only

Portfolio is a course for those students interested in pursuing an art degree in college. Students will have the freedom to create advanced projects of their choice with approval from Miss Brunswick. Projects will be multi-step, mixed-media, and will cover several types of art in preparation of showing breadth of talent for students' portfolio. They will focus on their own style and themes and should be expected to discuss their work and the work of their peers through critiques. The workload is difficult and the expectations are high. Students must be dedicated and serious about their art.

BUSINESS DEPARTMENT

Accounting I

Prerequisite: none

Credits:1

Term: one year

Grade level: 10, 11, 12

Students are taught the basic elements dealing with accounting procedures that many businesses use to maintain their financial records. They will progress through the accounting cycle and will analyze transactions into debit and credit parts, journalize transactions, post to ledgers, calculate payroll, and complete financial statements. Students will primarily use Aplia, an accounting software, to complete the accounting cycle.

This course is highly recommended for any student considering pursuing a degree in any business-related field.

Accounting II

Prerequisite: Accounting I

Credits: 1

Term: one year

Grade level: 11, 12

Accounting II is a continuation of Accounting I with an in depth study of departmental procedures and corporation operations. Cost accounting and managerial accounting are also introduced. Students will primarily use Aplia, an accounting software, to complete the accounting cycle.

Computer Applications (Office Information Technology) **class is available for college credit**

Prerequisite: none

Credits ½

Term: semester

Grade level: 9, 10, 11, 12

This course will be helpful for students going to college and for students who will be going to work in a business related occupation after high school. Skill development will be focused in the areas of Word, Excel, Access, PowerPoint, and web design. Rhodes State College offers 3 college credits for completion of this course. These credits are guaranteed to transfer to any public state college.

Technology Tools

Prerequisite: Alg. II Adv. or permission from the teacher

Credits: 1

Term: one year

Grade level: 11,12

This class is helpful to students who plan on extensive use of technology in their professional careers and will expose students to a variety of technology tools including circuits, BoeBots, programming, flash, C++, and a senior slide show.

Business & Careers

Prerequisite: none

Credits ½

Term: semester

Grade level: 9, 10, 11, 12

Students will learn the basics of several business careers including: marketing, management, sales, accounting, entrepreneurship, business technology, and production and business operations. Students will develop lifelong skills associated with career decision making and career management. Students will gain an understanding of their personality, interests, skills, values, and how these relate to occupational options. Students will learn how to write a resume, conduct oneself in an interview and manage job searches.

Agriculture and Environmental Business Management

Credit: 1.25

Term: 1 year

Grade Levels: 11, 12

Prerequisites: AFNR strongly suggested

In this course, learners will examine the elements of business; identify organizational management, functions and goals; and identify and apply necessary management skills. Learners will develop business plans including financial reports and strategic goals for opening a new venture or purchasing an existing business. Learners will use marketing concepts to evaluate the marketing environment and develop a marketing plan. An emphasis will be given to developing effective and efficient marketing channels, product approaches, promotion and pricing strategies. Learners will practice customer service and sales techniques and apply the concepts of ethics and professionalism in the work place while understanding the scope and importance of business regulations and related issues.

ENGLISH DEPARTMENT

English I

Prerequisite: none
Credits: 1
Term: one year
Grade level: 9

English I focuses on literary analysis and the use of various supports to refute or solidify a claim in literary and informational texts. Students also utilize narrative, informational, and argumentative writing strategies through short and long assignments. Also, vocabulary in college and career contexts are practiced and created to enhance writing and reading standards for assessment and career use.

English II

Prerequisite: English I
Credits: 1
Term: one year
Grade level: 10

English II prepares the student for Ohio's State Test in English Language Arts II, which assesses reading comprehension skills and informational and argument writing skills. Throughout the year, students will hone their reading skills by studying a variety of complex literature and informational texts. Writing skills will be developed in the areas of literary analysis, research, and narrative writing. Students will undertake speaking and listening projects to develop both their formal presentation skills and collaborative discussion skills.

English III

Prerequisite: English II
Credits: 1
Term: one year
Grade level: 11

The English III student is preparing for either College English I or Applied English IV at Marion Local, or for College Credit Plus English at a local college; as such, the course aims to meet all students' needs through a diverse and differentiated range of study. Throughout the year, the student will study all four strands of Ohio's Learning Standards for English Language Arts: reading (literature and informational texts), writing, speaking & listening, and language.

Applied English IV

Prerequisite: English III
Credit: 1
Term: one year
Grade level: 12

Applied English IV is a course that will reinforce basic communication skills in reading, writing, and speaking. This course is designed to meet the needs of the senior student who will be headed directly to the workforce after graduation; this class may not prepare a student for reading and writing assignments at a 2 or 4 year college. Therefore, if a student takes Applied English IV and chooses to go to college, it is possible that the student may struggle with assignments, be placed in a remedial class, or need additional assistance in college.

College English I

Prerequisite: English II
Credit: 1
Term: one year
Grade Level: 11, 12

This course is highly recommended for juniors and seniors who wish to attend a 2- or 4-year college. A mix of classical and contemporary works is used for introduction to literary and critical analysis. Regular reading and writing assignments are required to prepare the students for collegiate-level standards. Juniors should be advised that after successfully completing this course, they will be required to take A.P.

English or Senior English. (Applied English IV is not an option.) Students should know that summer reading is required.

Senior English **class is available for college credit**

Prerequisite: College English I

Credit: 1

Term: one year

Grade level: 12

This course is a more in-depth continuation of the material started in College English I and is designed for 2- and 4-year college-bound students who do not wish to take AP Literature or another post-secondary course off campus. The course includes critical analysis of nonfiction, literature, and film. Regular reading and essay assignments, as well as class discussions, are required. This course offers an English credit for Marion Local graduation, as well as 3 hours of General Studies Writing credit (GSW 1110) through Bowling Green State University (BGSU). (This class transfers to other colleges as an English composition credit.) In order to receive the 3 hours of credit through BGSU, students must pass the course and a final composition portfolio, which is evaluated by other BGSU faculty and staff. Students should know that summer reading is required.

Advanced Placement (AP) English - Literature and Composition

college credit available if pass AP test in the spring

Prerequisite: College English I and teacher recommendation

Credit: 1

Term: one year

Grade level: 12

This course will prepare the senior student for taking the Advanced Placement Literature and Composition Exam in the spring to earn potential college credit. Students will study in-depth all genres of literature and further advance their analytic skills. Information from College English I will be reviewed and then expanded. Regular reading and writing assignments are required, as well as discussions and regular timed writings to prepare the student for the exam. All students will be required to take the A.P. exam in the spring, which will be at a cost to the student. Students should know that reading and other assignments are required during the summer.

Journalism I

Prerequisites: None

Credits: 1/2 or 1

Term: 1 semester or one year

Grade level: 10, 11, 12

In this fast-paced elective, students create our high school newspaper, *The Gold Standard*. The newspaper is published to the entire Marion Local community on the school's website, so professional tone and content are stressed to both inform and engage our extensive readership. Journalism I students are staff writers for *The Gold Standard* and learn professional journalism writing techniques in addition to design and layout.

Journalism II

Prerequisites: Journalism 1

Credits: ½ or 1

Term: 1 semester or one year

Grade level: 11, 12

After taking Journalism I, students will be ready to advance to the roles of Section Editor or Editor-in-Chief of *The Gold Standard* in Journalism II. Journalism II students take responsibility for the content and design of their sections of the newspaper, learning and utilizing Associated Press style. They also mentor Journalism I students as they learn to apply the journalistic writing techniques they have studied. Ethics and the role of the 21st century journalist, in both high school and real-world settings, are explored.

FOREIGN LANGUAGE DEPARTMENT

Spanish I

Prerequisite: none
 Credits: 1
 Term: one year
 Grade level: 9, 10, 11, 12

The student is introduced to the basics of Spanish through a variety of learning methods. The student will learn about the diversities and similarities between cultures as well as make these comparisons grammatically between languages. The student will develop skills in comprehending the language orally and in writing and in producing written and oral language. While good grades and confidence in one's English grammar are beneficial it is recommended that the student come with an open mind and good attitude.

Spanish II

Prerequisite: Spanish I
 Credits: 1
 Term: one year
 Grade level: 10, 11, 12

This course builds on the development of Spanish I. The student will learn more detailed and advanced grammar and cultural information in order to become more self-expressive. The student learns how to use the language in practical ways of today's world. More production of the language is expected. Culture remains an integral part of this course.

Spanish III

Prerequisite: Spanish I, II
 Credit: 1
 Term: one year
 Grade level: 11, 12

This course is an extension of Spanish II. Cultural learning continues while more emphasis is placed on producing the language with confidence. The student will be challenged grammatically to comprehend and produce the language with more complexity and diversity of speech.

Spanish IV **class is available for college credit**

Prerequisite: Spanish III
 Credit: 1
 Term: one year
 Grade level: 12

This course envelops total application of the language. While we will continue further study into the various cultures, we will also study works of Hispanic and Latin-American authors. The course will completely take place in the Spanish language and student conversational skills will be more acutely developed.

HEALTH AND PHYSICAL EDUCATION DEPARTMENT

Physical Education I

Prerequisite: none
 Credits: ¼
 Term: one semester
 Grade level: 9, 10, 11, 12

Physical Education I establishes a well-balanced physical education program to meet the state requirement where boys and girls participate together. Several areas covered include volleyball, basketball, floor hockey, soccer, flag football, softball, etc.

Physical Education II

Prerequisite: none
Credits: .25
Term: one semester
Grade level: 10, 11, 12

Physical Education II is a continuation of Physical Education I with some additional areas covered including weight training, dance, cooperative learning and aerobic walking, etc.

Health

Prerequisite: none
Credits: .5
Term: one semester
Grade level: 10, 11, 12

The objectives of Health are: to provide information concerning the treatment and prevention of common diseases; to equip students with a basic understanding of their sexuality as well as their responsibilities as they relate to making sexual decisions; to inform students of the effects of alcohol, tobacco, and drugs; to enable students to understand the warning signals of their own bodies as well as the ways to correct personal health conditions; and to allow students to understand aging, death, and dying. Students will also be certified in CPR.

Athletic Training I

Prerequisite: none
Credits: .5
Term: year, 2 days per week
Grade level: 10, 11, 12

This course is designed to give the student a comprehensive understanding of the Athletic Training profession. In the classroom, the student will learn basic first aid concepts as well as an in-depth injury assessment and management. In order to complement the classroom instruction, the student will be required to perform 30 hours of observation with athletic teams.

Athletic Training II

Prerequisite: Athletic Training I
Credit: .5
Term: year, 2 days per week
Grade level: 11, 12

This course will give students an in-depth understanding of injury prevention techniques, emergency care procedures, specific rehabilitation applications, therapeutic modality protocols, psychological aspects of injuries, and administrative duties and ethical practices of athletic trainers. Students will be required to perform 30 hours of aiding athletic teams.

INDUSTRIAL TECHNOLOGY DEPARTMENT**Drafting**

Prerequisite: none
Credits: .5
Term: semester
Grade level: 9, 10, 11, 12

Basic Drafting is a beginning level course that will develop your capacity to plan in an orderly fashion to interpret the ideas of others and to express yourself in an understandable manner. You will study sketching, drafting tools and fundamentals, geometrics and lettering. You will also learn how to read and prepare different types of drawings. Some of these are multiviews, section views, auxiliaries, pictorials and sheet metal pattern developments. Computer drafting will also be introduced and used in the preparation of drawings.

***Engineering Drafting I**

Prerequisite: Basic Drafting

Credits: .5

Term: semester

Grade level: 9, 10, 11, 12

Engineering Drafting I is a continuation of Basic Drafting. You will take all the basic skills you developed in Drafting I and apply them into a more precise and in-depth study of the drafting world. Areas studied will include drafting careers, instrument drafting, sketching, lettering, and geometrics. You will learn to read and prepare various types of drawings, such as multiviews, section view, pictorials, auxiliaries, revolutions, intersections, etc. Engineering Drafting I is intended to teach you to communicate and express ideas in an understandable, efficient, and accurate manner. Drawings will be prepared on the drafting board as well as the computer.

***Architectural Drafting I**

Prerequisite: Basic Drafting

Credits: .5

Term: semester

Grade level: 9, 10, 11, 12

Architectural Drafting I is a course concerned with the planning and designing of a modern family residence. Areas studied will include: house styles, individual rooms, foundations, methods of construction and electrical features. The students will prepare foundation plans, floor plans, plot plans, section views, and elevations.

***Engineering Drafting II**

Prerequisite: Basic Drafting, Engineering Drafting I

Credit: .5

Term: semester

Grade level: 10, 11, 12

Engineering Drafting II is an in-depth study of technical, engineering drafting. You will review industrial drafting practices and learn how modern industries communicate. All styles of drawings in use today will be studied and put into application on the drawing board or on a C.A.D. (Computer Assisted Drawing) system.

***Architectural Drafting II**

Prerequisite: Basic Drafting, Architectural Drafting I

Credits: .5

Term: semester

Grade level: 10, 11, 12

Architectural Drafting II is a continuing in-depth study of architectural drafting. The student must consider his/her family's needs and resources to plan and estimate the complete construction of a family home. All aspects that affect this construction must be considered in order to be realistic with their construction planning. The student will prepare foundations, floor, & elevation views of their house. They will also produce electrical plans & plumbing plans, which is new from Architectural I. Ranch, two story, and split level homes may be drawn. All plans will be generated on the computer using SoftPlan, the same software that is used in Tri Star.

***Computer-aided Drafting (CAD)**

Prerequisite: Basic Drafting

Credits: .5

Term: one semester

Grade level: 9, 10, 11, 12

Computer-aided drafting is an entire semester of drafting all done on the computer. If you plan on a career in engineering, design, graphic design, machine trades, or construction, the computer-aided drafting experience will help you prepare. All work is done on Autocad 2014 software, or comparable software, SoftPlan 14, and SolidWorks, 2009 software.

***3 Dimensional Drafting (Solid Modeling)**

Prerequisite: Basic Drafting

Credits: .5

Term: one semester

Grade level: 9, 10, 11, 12

Using “solid works” as the software, the student will learn to use and become proficient in designing 3-D objects. This software is used all over the industrial world to plan products and processing machinery.

These advanced drafting courses all require a great deal of independence on the part of the student. While the instructor will be present, he may be conducting another class, and drafting students will need to be mature, responsible individuals who can work through their curricular requirements independently and who understand that they may have to hold their questions until the instructor is available to answer them.*

Woodworking and Construction

Prerequisite: None

Credits: 1

Term: one year

Grade level: 9, 10, 11, 12

Woodworking and Construction is a comprehensive study of the world of woodworking from the forest industry to the final product. Studies will include the use of hand and power tools, various types of wood, methods of construction, and types of finishes. The second nine weeks students will design, plan, and construct a simple project using hand and power tools. Upon completion, students will design, plan, and construct a more complex piece of furniture that will match their growing knowledge and skill level. Whether one is college bound or vocational, this course is valuable for all interested students in becoming more self-sufficient in skills they can use the rest of their life.

Special Interest Industrial Technologies

Prerequisite: Woodworking & Construction or Exploratory Vocational Education

Credits: 1

Term: one year

Grade level: 10, 11, 12

The major thrust of this course is independent study in an area chosen by students within the first few weeks of class. Students will have a quick review of power tools and safety the first nine weeks. This time will also be used for preparing plans for your first project. All projects must be approved by the instructor and be in an area previously studied. Four projects of an appropriate level must be completed to gain credit from the course.

Exploratory Vocational Education

Prerequisite: None

Credits: 1

Term: one year

Grade level: 9, 10, 11, 12

Students thinking of enrolling in or even remotely interested in the many Tri-Star programs are strongly encouraged to take Exploratory Vocational Education. By doing so, students will be better prepared to make informed decisions regarding the following Tri-Star programs: Automotives, Construction, Engineering (or CAD), Precision Machining, Electronics, Welding, and Ag Mechanics. Exploratory Vocational Education is an excellent course for students interested in learning lifetime skills in several areas as well as intensive study in the area of their anticipated vocational choice. For this reason, the course could be valuable to students in any track.

MATH DEPARTMENT

Algebra I-B

Prerequisite: Algebra 1-A

Credits: 1

Term: one year

Grade level: 9, 10

This course follows Algebra I-A that students took as 8th graders. The overall course focuses on: expressions, functions, linear equations and functions, linear inequalities, systems of linear equations and inequalities, exponents and exponential functions, quadratic expressions, equations and functions, and rational functions and equations. It is required for all incoming Algebra 1 students to have a TI-83 or TI-84 graphing calculator.

Geometry

Prerequisite: Algebra I

Credits: 1

Terms: one year

Grade level: 9, 10, 11

This course will be taken after Algebra I. Topics concentrated on are: points, lines and planes, 2 and 3 dimensional figures, reasoning and proof, parallel/perpendicular lines and distances, congruent triangles and their relationships, right angles, along with trigonometry, transformations and symmetry, areas of polygons and circles, and surface area/volume of 3-dimensional figures.

Algebra II

Prerequisite: Algebra I and Geometry

Credits: 1

Terms: one year

Grade level: 10, 11, 12

This course would provide the student with an overall view of math as well as application of such in the areas of engineering, science, and architecture. Students who do not desire to continue with advanced math areas would find this course beneficial. *TI-83 or TI-84 Graphing Calculator is required.*

Algebra II Advanced

Prerequisite: Algebra I and Geometry

Credits: 1

Terms: one year

Grade level: 10, 11, 12

This course is required if a student plans on continuing with advanced math courses such as Pre-Calculus or Calculus. Any student anticipating entrance into a four-year college should enroll in this course. This course would be especially helpful to students who visualize a career in any math, science, business, or engineering related area.

Pre-calculus **class is available for college credit**

Prerequisite: Algebra I, Algebra II Advanced, Geometry

Credits: 1

Term: one year

Grade level: 11, 12

Pre-calculus is a college preparatory course and a requirement for those interested in engineering, higher mathematics, and advanced science. Trigonometry is covered although application and depth of previously learned math skills are also emphasized.

Introduction to Probability and Statistics

Prerequisite: Completion of Algebra I and Geometry

Credit: .5

Term: one semester

Grade level: 11, 12

This semester course is designed to give the student a basic understanding of probability and statistics. Topics to be covered include central tendencies, variance, standard deviation, linear regression, probability laws, scatter plots, box plots, correlation, and other topics as time allows.

Advanced Placement (AP) Calculus**college credit available if pass AP test in the spring**

Prerequisites: Algebra I, Geometry, Algebra II Advanced, Precalculus, Probability and Statistics

Credit: 1

Term: one year

Grade Level: 12

This Calculus course will be designed to prepare students to take the AB Calculus exam. The objective of the course is to prepare students for college calculus. Topics to be covered include limits, continuity, rates of change, derivatives, implicit differentiation, definite integrals, and antiderivatives.

Discrete Math

Prerequisites: Algebra I and Geometry

Credit: .5

Term: one semester

Grade Level: 11, 12

This semester course will emphasize problem solving and logical thinking skills. Topics to be covered include bases, Boolean logic, graph theory, networking, set theory, number representation, and other topics as time allows.

MUSIC DEPARTMENT**Band**

Prerequisite: Junior High Band

Credits: 1

Term: one year

Grade levels: 9,10,11,12

This class meets the fine arts requirement for graduation. Band is a co-curricular class. In addition to its regular session during the school day, the class meets outside of school time for extra rehearsals, performances, and other band activities. Band is a year-round course; students must participate in concert band, marching band, and pep band to receive one credit. The process of creating a marching band competition show begins far in advance of the normal course registration date. Therefore, students must be registered for band by the first Monday school is in session in the month of April. *Students may not drop band from their schedules after this date.* The marching band has several required dates in the summer, including band camp, festivals, parades, and other performances/activities. The pep band will play at all home MAC games for boys' basketball. The concert band will perform at several concerts and events through the year.

Choir

Prerequisite: none

Credits: 1

Term: one year

Grade level: 9, 10, 11, 12

This class meets the fine arts requirement for graduation. Concert Choir is a co-curricular class. In addition to its regular session during the school day, the class will meet outside of school time for performances. This class is designed to expose students to various types of choral music including classical, contemporary, jazz and pop styles. Concert Choir is a performance based class so students are required to attend all concerts and rehearsals held outside of the normal school day. No prior singing or musical experience is required to take this course.

SCIENCE DEPARTMENT

Biology I

Prerequisite: none

Credits: 1

Term: one year

Grade level: 9, 10, 11, 12

Students will study the nature of life, cells, genetics, evolution and ecology. This class includes microscope work, identification of organic material, a frog dissection, and other lab investigations.

Biology II

Prerequisite: Biology I

Credits: 1

Term: one year

Grade level: 10, 11, 12

In this class, we will study: 1) the fungus kingdom and its importance to us, 2) the process of photosynthesis and plant growth, and 3) comparative anatomy of the nine major phyla in the animal kingdom. Lab sessions and dissection of several animals will support the concepts being taught.

Human Physiology

Prerequisite: Biology I

Credits: 1

Term: one year

Grade level: 11, 12

Human physiology is the study of the structures and functions of the body. Detailed information concerning the body as a whole, and the different systems (nervous, digestive, reproductive, etc.) composing the body are discussed in this class. Lab sessions including dissections of various organs are designed to enhance the concepts of each unit. The course includes the dissection of a cat, examining its organs and systems and comparing them to those of the human body.

Chemistry

Prerequisite: Geometry (Should be taking Alg 2 Advanced concurrently with Chemistry)

Credits: 1

Term: one year

Grade level: 10, 11, 12

Chemistry meets seven periods per week. As much as possible, three periods are lecture and four periods are related laboratory activities. Chemistry requires a good background in basic science and algebra. Students are encouraged to take Algebra II concurrently with chemistry. Topics covered include: matter, quantitative and qualitative analysis, gas laws, electron configuration, periodicity, chemical bonding, energy, rates of chemical reaction, and acids and bases.

Physics

Prerequisite: Chemistry I, at least an A- in Algebra II Advanced

Co-requisite: Precalculus

Credits: 1

Term: one year

Grade level: 11, 12

Physics is open to students with a good background in science and math. Physics meets a little over an hour per day. It is intended to give students a fundamental background in physical sciences. Topics covered include: measurement, vectors, mechanics, heat light, sound, electricity, magnetism, and nuclear physics. If students want to take Physics as a dual enrollment class through Wright State University, there will be a fee charged by the university and you will receive college credit for the class.

Advanced Placement (AP) Physics

college credit available if pass AP test in the spring

Prerequisite: Physics

Credits: 1

Term: one year

Grade level: 12

AP Physics is a course that is a calculus-based physics course designed by the College Board to prepare student for the AP physics exam in mechanics. Although topics will be covered from the previous physics 1 course, the topics will include further detail and include applied calculus. The course will cover kinematics, forces, work and energy, inertia, torque, wave mechanics and rotational motion. Students should be in their senior year and be enrolled in calculus concurrently for this class. College credit can be awarded if a satisfactory score on the AP Physics C exam is achieved.

Advanced Placement (AP) Chemistry

college credit available if pass AP test in the spring

Prerequisite: Chemistry & Precalculus

Credits: 1

Term: one year

Grade level: 11, 12

AP Chemistry will go beyond Chemistry and cover in depth topics such as: advanced stoichiometry, kinetics and equilibrium of solutions, acids, bases and gases, and an intro to Organic Chemistry. Students will pay a lab fee of \$20 for webassign access for homework, quizzes and chemicals. Summer review assignments will be assigned to review various concepts. AP Chemistry is a course that is approved by the college board. Students may elect to take the AP exam at the end of the school year for college credit.

Science and Technology of Food (Food Science)

Credit: 1.25

Term: one year

Grade levels: 10, 11, 12

Prerequisites: AFNR strongly suggested

Students will apply the principles of chemistry, microbiology through processing, preservation and analysis of food products. Learners will process and preserve food products using mechanical, biological, and chemical processing methods. Food safety, sanitation, and quality assurance will be practiced. World food production, and health, food borne disease, and food security will be examined.

Agronomic Systems (Agronomy)

Credit: 1.25

Term: one year

Grade levels: 10, 11, 12

Prerequisites: AFNR strongly suggested

This course focuses on the knowledge and skills required to research, develop, produce and market major agricultural and horticultural crops. Cultural and sustainable production practices will be examined. Students will apply scientific knowledge of plant development, nutrition, and growth regulation. The knowledge and skills needed to manage soils, water, and pests related to agronomic crops will be learned. Students will employ communication, business, and management strategies for the industry.

Animal Nutrition, Health and Reproduction (Animal Science)

Credit: 1.25

Term: one year

Grade levels: 10, 11, 12

Prerequisites: AFNR strongly suggested

In this course the learner will integrate and apply principles of nutritional management for various classes of animals in relation to responsible animal behavior, welfare, and husbandry practices. Learners will analyze nutritional content and quality of feeds; formulate, prepare, and investigate rations; develop feeding recommendations; identify deficiency symptoms and implement corrective methods as needed. The learner will develop animal care and management plans that reflect the classification and ecological relationships of animals and follow business management best practices and legal compliance. Learners will monitor and evaluate the quality of the animal habitat and estimate carrying capacity as it relates to the impact of the environment and animal health.

SOCIAL STUDIES DEPARTMENT**American History**

Prerequisite: none

Credits: 1

Term: one year

Grade level: 9

All freshmen are required to take American History. Using a basal high school American History text along with supplemental primary and secondary sources, students will continue the chronological study of the history of the United States with emphasis on domestic affairs. As students study historic eras, they will consider the geographic, cultural, economic, and governmental changes that have occurred. They will be given practice in developing skills necessary for acquiring, classifying, interpreting, analyzing, summarizing, evaluating, and synthesizing information. As students practice these critical thinking skills, they will of necessity be reviewing and learning factual information related to the history of the United States, with an emphasis from 1877 to the present, as well as developing a deeper understanding of their role as citizens.

American Government

Prerequisite: none

Credits: 1

Term: one year

Grade level: 11

All juniors are required to take an American Government course. The course covers all aspects of our nation's government system. The following topics are covered in detail: history of government, three branches of government, and laws. Lecture, textbook, and current event readings will be used to expand and explore topics discussed.

Advanced Placement (AP) Government & Politics**college credit available if pass AP test in the spring**

Prerequisite: none

Credits: 1

Term: one year

Grade Level: 11 or 12

This course will meet the American Government requirement that all students need to meet. The goals of this course are to increase the understanding of the works and function of the American Government system, as well as successfully pass and gain college credit through the Advanced Placement exam that will take place near the end of the year. The format of this class will be set up similar to the American Government course, except topics will be analyzed more in-depth, and the course load will be substantially more.

World History

Prerequisites: None

Credits: 1

Term: one year

Grade level: 10

World History is a course that is required by all sophomores. They will continue the chronological study of world history, with an emphasis from 1600 to the present. By studying historic eras, students will better understand the past and recognize its contributions to the present and the future. They will consider the influence of geographic settings, cultural perspectives, economic systems and various forms of government. Students will develop a better understanding and appreciation for significant people and events. By providing meaning to events and people of the past, students will be able to make connections across time and show how they affect contemporary life.

Geography and Current Events:

Prerequisites: none

Credits: .5

Term: one semester

Grade Level: 10, 11, 12

Students will study current happenings of the United States and countries around the world. By examining the history of various topics, students will understand how those events have contributed to the current state of affairs. There will also be a focus on U.S. and World geography. Students will be able to identify different regions of the world and understand how geography plays a strong influence on global affairs.

Personal Finance:

Prerequisites: none

Credits: .5

Term: one semester

Grade Level: 11, 12

All students will be required to take this course. Personal finance information will be covered, including establishing credit, working with a checking account, investments, IRA's, retirement savings, social security taxes etc. The focus of this course will be for the students to gain practical and useful money management skills and knowledge for life after high school.

Psychology/Sociology:

Prerequisites: none

Credits: .5

Term: one semester

Grade Level: 10, 11, 12

This will be a course that combines the subjects of both Psychology and Sociology. The Psychology portion of the course is designed to acquaint the students with the scientific study of behavior. The students will be exposed to the major fields and pioneers of psychology. Areas to be studied include learning development, personality development, physiology, and mental disorders. Sociology is designed to acquaint the students with society's influence on social behavior. The students will be involved in discussion of major social groups and how they interact with the rest of society. Areas to be studied include social behavior, institutional dynamics, social change, ethnicity, racial discrimination, etc. The students will gain a global awareness and understanding of how behavior relates to societal attitudes and pressures.

MISCELLANEOUS**ACT Preparation**

Prerequisite: none

Credits: .5

Term: one semester

Grade level: 10, 11, 12

Strategies and skills for teaching the ACT are reinforced in this course. Students will see the structure of ACT questions as well as set goals for success covering college preparation with the ACT using the KAPLAN success method.

TRI STAR COURSE LIST

(January 2017)

Tri-Star Career Compact is an extension of Marion Local High School, in which students are eligible to attend their junior and senior years. In order to get more thorough information about these classes, students should see the Tri Star Program Directory, available in the guidance office. In the fall of your sophomore year, a Tri Star representative will come to our school and give a presentation about their programs. The sophomores will also take a field trip to see a Tri Star Program on site. We encourage you to explore the Tri-Star programs of interest and call for a visit if you would like to see something first hand.

JUNIOR COURSES

- Ag Mechanics (3 credits)
- Automotive Technology (3 credits)
- Health Information Technology (3 credits) **NEW PROGRAM
- Career Based Intervention (2 credits)
- Construction (3 credits)
- Early Childhood Development (3 credits)
- Engineering Technology (2 or 3 credits)
- Graphic Communications (3 credits)
- Interactive Media (3 credits)
- Marketing Education (3 credits)
- REC Tech (3 credits)
- Med Prep (3 credits)
- Precision Machining (3 credits)
- Vet Tech (3 credits)
- Welding (3 credits)

SENIOR COURSES

- Ag Mechanics (3 credits)
- Automotive Technology (3 credits)
- Health Information Technology (3 credits)
- Career Based Intervention (2 credits)
- Construction (3 credits)
- Early Childhood Development (3 credits)
- Engineering Technology (2 or 3 credits)
- Graphic Communications (3 credits)
- Interactive Media (3 credits)
- Marketing Education (3 credits)
- REC Tech (3 credits)
- Med Prep (3 credits)
- Precision Machining (3 credits)
- Vet Tech (3 credits)
- Welding (3 credits)
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