



MARSHALL HIGH SCHOOL
COURSE DESCRIPTION GUIDE

2020 - 2021

REQUIREMENTS FOR GRADUATION – MHS 2020 - 2021

Minimum requirements for graduation from Marshall High School are:

1. **ENGLISH** - 8 semesters--4 credits (English 9, 10, and 11 required)
2. **SOCIAL STUDIES** - 6 semesters--3 credits- (1 credit American History and 1/2 credit government class is required.)
3. **SCIENCE** - 6 semesters--3 credits (Biology or Science 9 is required)
4. **MATHEMATICS** - 6 semesters--3 credits
5. **PHYSICAL EDUCATION** - 3 semesters--1.5 credits – Physical Education must be taken at least one semester in each of three out of the four years of high school. Students may not substitute varsity athletic competition in lieu of Physical Education.

A TOTAL OF 27 CREDITS ARE REQUIRED FOR GRADUATION.

Transfer students may require more or less credits depending on the requirements of the other school(s) attended.

Class of 2022 and beyond

1. **ENGLISH** - 8 semesters--4 credits (English 9, 10, and 11/AP Lang. & Comp. required)
2. **SOCIAL STUDIES** - 6 semesters--3 credits- (1 credit American History and 1/2 credit government class is required.)
3. **SCIENCE** - 6 semesters--3 credits (1 credit Science 9 and .5 credit Human Biology is required)
4. **MATHEMATICS** - 6 semesters--3 credits
5. **PHYSICAL EDUCATION** - 3 semesters--1.5 credits – Physical Education must be taken at least one semester in each of three out of the four years of high school. Students may not substitute varsity athletic competition in lieu of Physical Education.
6. **HEALTH** - 1 semester-- 0.5 credit 10th grade year -- 0.5
7. **PERSONAL FINANCE** - 1 semester 10th grade year-- 0.5 credit

A TOTAL OF 27 CREDITS ARE REQUIRED FOR GRADUATION.

Transfer students may require more or less credits depending on the requirements of the other school(s) attended.

COURSE REQUIREMENTS FOR COLLEGE ADMITTANCE

College bound students should earn credits in the fields prescribed by the college of their choice. Students should check carefully with the counselor to be certain they are meeting the entrance requirements of their college. Those courses that usually qualify as academic units are from the following subject areas: English, Math, Science, Social Studies and World Language, however not all courses from these subject areas meet college admission requirements. The University of Wisconsin System has differing World Language requirements for admission.

Students should check all admissions requirements by reviewing the appropriate college admissions requirements online and/or by contacting the counselor. In addition, students are encouraged to review admission requirements for both colleges and vocational schools early in their high school years, to plan accordingly and to avoid limiting their future choices and alternatives.

MARSHALL HIGH SCHOOL - Laude Recognition Process

Beginning with the class of 2011, Marshall High School implemented a student achievement recognition process based on the Laude system. Students eligible for the Laude system will be recognized using the criteria outlined below.

The GPA calculation will be determined by multiplying cumulative student GPA at the end of the 1st semester of the senior year by the total number of advanced courses taken throughout four years of high school.

<u>Examples:</u>	3.4 x 4 = Cum Laude	<u>Ranges for each recognition:</u>	
	3.7 x 6 = Magna Cum Laude	Cum Laude	13.6 to 22.1
	3.8 x 8 = Summa Cum Laude	Magna Cum Laude	22.2 to 30.3
		Summa Cum Laude	Greater than 30.3

Marshall High School's current list of advanced courses is listed below. These courses are used in the calculation for Laude recognition. Youth Apprenticeships, Youth Options, and Independent Studies will be considered on an individual student basis and through an approval process. Courses that are one semester in duration only will count as a 0.5 in the calculation for the Laude recognition.

English

AP Language and Composition

Business Education

Accounting I

Accounting II

Social Studies

Psychology II

American Military History

Economics

Modern Art and History

History of the Middle East (*Optional*)

World Languages

German III

Spanish III

Spanish IV

Spanish V

Vocational Education

Assistant Childcare Teacher

Metals III

Woodworking III

Band

Fourth Year (Individual Basis)

Math

Pre-Calculus

Advanced Math-Algebra

Advanced Math Trigonometry

Statistics and AP Statistics

AP Calculus

Science

AP Biology

AP Chemistry

Biology Research

Anatomy and Physiology I

Anatomy and Physiology II

Art

Advanced Painting/Drawing

AP Studio Art

Modern Art and History

AP Art History

Color Experience

AGRI-SCIENCE DEPARTMENT

ANIMALS, PLANTS, AND YOU (1 semester) - 1/2 credit

Recommended for freshmen.

Our lives depend upon animals and plants and their products. This class is designed to give a general overview of the agriculture industry and what it has to offer ALL members of society. Explore the various areas of agriculture and see how you can become a better pet owner, homeowner, outdoor enthusiast, and consumer. Study current topics in agriculture such as food safety, invasive species, pollinator protection, and commodity marketing. Students will become aware of potential agriculture industry careers and develop basic career skills.

ANIMAL SCIENCE- LARGE ANIMAL (1 semester) - 1/2 credit

Learn how to effectively care for and manage common large animal species. Study will include the traditional animals in production agriculture - cattle, hogs, poultry, sheep and the nontraditional horse. Study will focus on anatomy and physiology, breeds, health care, feeding, handling, reproduction, marketing, and impact on our society.

ANIMAL SCIENCE- COMPANION OR SMALL ANIMALS (1 semester) - 1/2 credit

Knowledge of small animals and their management is essential for responsible pet ownership or an animal related career. This course will focus on the small animals that man has as a companion or uses in research. Study will include anatomy and physiology, breeds, health care, handling, reproduction, training, and impact on our society. Course activities will include hands on experiences working with the animals.

BASIC VETERINARY SCIENCE I (1 semester) - 1/2 credit

Prerequisite: Biology or Science 9

This class will expose the student to the basic concepts of animal health care. Learn how some of the systems of the animal body function and what health problems affect them, including sensory organs, circulatory, respiratory, renal, and reproductive systems. You will become familiar with basic veterinary terminology, animal handling, and general health examinations of large and small animals. Clinical skills in animal restraint, proper administration of medication, and blood testing will be covered. Course activities will include hands on experiences working with the animals.

BASIC VETERINARY SCIENCE II (1 semester) - 1/2 credit

Prerequisite: Biology or Science 9 (Basic Veterinary Science I is not a prerequisite)

This class will expose the student to the basic concepts of animal health care. Learn how some of the major systems of the animal body function and what health problems affect them, including the digestive, muscular, skeletal, and immune systems. You will become familiar with basic veterinary terminology, parasitology, and pet first aid. Clinical skills in animal restraint, surgical prep, and drug dosage and dispensing will be covered. Course activities will include hands on experiences working with the animals.

BIOTECHNOLOGY (1 semester) - 1/2 credit

Prerequisite: Biology or Science 9

Study DNA, bacteria, viruses, enzymes and more. Learn how biotechnology is affecting everything around us from the medicine you take to the food you eat; from the crops we grow to the fuel in your car; from the evidence in the courtroom to the oil spill across the world. Study gene therapy, cloning, and genetically modified organisms. Isolate DNA, conduct gel electrophoresis, make bacteria glow, and solve a crime as you cover advanced science concepts and their application in the rapidly evolving Biotechnology field.

FISH AND WILDLIFE (1 semester) - 1/2 credit

This course covers one of the most valuable, yet vulnerable, natural resources in our area - fish and wildlife populations. Explore the importance of these resources to our economy and our ecosystem. Also, study the impact humans have on each species and how we can help manage them. The class will include aquaculture and taxidermy projects.

FORESTRY (1 semester) - 1/2 credit

This course will give you a chance to learn about trees and the many forest products found in our everyday lives. You will learn about tree biology, current practices in forest management, forest technologies, forest products, careers, and even the importance of urban forestry. A unit on land description will include the use of a compass and GPS units. Labs involving outdoor activities and the school forest will be included.

PLANT AND SOIL SCIENCE (1 semester) -1/2 credit

Prerequisite: Biology or Science 9

In this course students will study the anatomy, physiology, and reproduction of plants and then apply that knowledge of plants in the growth and reproduction of various plants in the greenhouse and on school grounds. Environmental factors that affect plant growth and soils are also covered. Student projects will include terrariums, bonsai trees, plant propagation, composting, soil testing, and hydroponics. This class will help you build skills for lifelong enjoyment of plant related hobbies.

INTRODUCTION TO HORTICULTURE (1 semester) - 1/2 credit

This course will quickly review the basics of plant science and then apply that knowledge to several horticultural industries. Explore the possibilities of fruit and vegetable production in Wisconsin and around the world. Learn the design basics of beautifying your home with plants - indoors and out. Student projects will include indoor plant design, corsages, floral arrangements, and landscape design plans. Hands on activities include work in the greenhouse, fruit tree production, tree/shrub pruning, and various landscape projects. This class will help you build skills for lifelong enjoyment of plant related hobbies.

LEADERSHIP & COMMUNICATION (2 semesters) - 1/2 credit per semester (both semesters required)

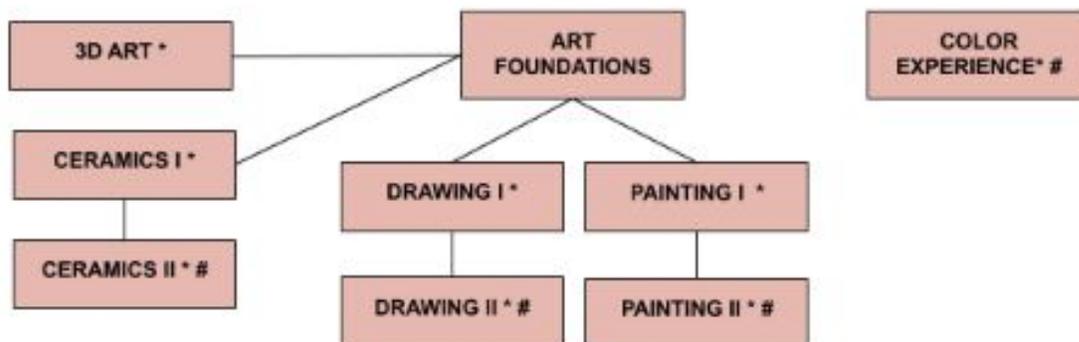
Prerequisite: 12th Grade Status

No cows, sows, or plows here! Learn what leadership is all about by learning about your leadership style, developing goal setting skills, communication skills, decision making skills, teamwork and much more. You will develop your leadership skills further by studying time and stress management, parliamentary procedure, peer pressure, self-confidence, assertiveness and a positive attitude. Students will work with leadership projects within the school district and the community including an elementary student-mentoring program. FFA membership (for funding purposes) and participation in the elementary mentoring program are required for the year.

Agriculture Course Rotation	
<u>2020/2021</u>	<u>2021/2022</u>
Basic Veterinary Science I	Animal Science – Large Animals
Basic Veterinary Science II	Animal Science – Small Animals
Forestry	Plant and Soil Science
Intro. To Horticulture	Fish and Wildlife

ART DEPARTMENT

ART CLASS FLOW CHART:
Where there are always individual paths to be taken, this flowchart should help you as you move forward with planning your art class schedule. Courses with * have a prerequisite. Some course are only offered on alternating years. All classes are one semester. Laude Credit #.



2D OFFERINGS:

Introductory: ART FOUNDATIONS (1 semester) - 1/2 credit

This is an entry-level art class that explores the elements and principles of design and how they can be applied to your individual artwork. Students will develop the fundamental skills needed for a solid foundation in the visual arts. Composition, observation, and rendering skills will be emphasized as students explore a wide range of media. Projects include drawing, painting, collage, ceramics, and introductions to artists and art vocabulary. The structure of the class will consist of guided exercises, class projects, group discussions, and critiques. Students will use a sketchbook in this class to develop their ideas and to further their abilities. (This course replaces what previously was Art I and Art II).

Intermediate: DRAWING I (1 semester) - 1/2 credit

Prerequisite: Art Foundations

Students will develop their observation and accuracy skills as they progress through a variety of classroom assignments such as right brain awareness, still life drawings, perspective drawings, portraiture, and landscapes. A wide range of drawing media will be used as students complete assignments. Students will continue to develop compositional understanding by applying the elements and principles of design to their sketches/drawings. A variety of artists will be studied as students discover how they are relevant in art history and to the individual student's work. Students will use a sketchbook in this class to develop their ideas and to further their abilities.

Intermediate: PAINTING I (1 semester) - 1/2 credit

Prerequisite: Art Foundations

Students will learn the various techniques used in preparing for and creating watercolor, acrylic, and mixed media paintings. Color theory is closely examined in all aspects of this course so that students better understand how various colors are made and how they relate to one another in a visual composition. By using their knowledge of color theory and compositional development, students will create abstract and realistic acrylic paintings. Historical and contemporary painters' work will be explored. The artist's individual development, style, technique and problem solving approaches will be examined. Students will use a sketchbook in this class to develop their ideas and to further their abilities.

Advanced: PAINTING II (1 semester) - 1/2 credit

Prerequisite: Painting

Advanced Painting explores advanced techniques in acrylic painting, mixed media art, and introduces students to oil painting. Color theory is reviewed and emphasized in all aspects of this course so that students continue to reflect upon how various colors are made and how they relate to one another in a visual composition. Subjects of the paintings will vary from landscapes to portraits, abstractions to still life paintings and also social commentaries. By using knowledge of color theory, compositional development and desire to develop a personal style, student's works will vary on a personal level from abstraction to realistic works. Historical and contemporary painters work will be explored to examine individual development, style, technique and problem solving approaches. Students will further develop all of the skills necessary to construct and stretch canvas and Masonite supports. Students will use a sketchbook in this class to develop their ideas and to refine their skills.

Advanced: DRAWING II (1 semester) - 1/2 credit

Prerequisite: Drawing

Advanced Drawing explores technique, observational skills and personal style development. Mediums will vary from pencil to pen and ink, charcoal, pastels and paints. Students will be challenged to create large-scale works and to make individual choices about mediums used to complete the classroom assignments in a personal style. Portraiture, figure drawing from clothed models, still life and landscapes are among the many subjects that may be explored. Individual style, expressive mark making, and creative problem solving skills will be developed. Historical and contemporary artists will be explored to further enhance the student artist's knowledge and approach to creating works of art. Students will use a sketchbook in this class to develop their ideas and to refine their skills.

3D OFFERINGS:

Introductory: CERAMICS I (1 semester) - 1/2 credit

This introductory ceramics class teaches you how to construct, fire, and glaze both hand-built and wheel-thrown pottery and sculpture. Students will start by learning basic techniques and then move into using the learned skills to create projects of their choice. Projects include, but are not limited to: slab containers, masks, crooked teapots, cups and bowls on the wheel, and sculpture.

Intermediate: CERAMICS II (1 semester) - 1/2 credit

Prerequisites: Ceramics I

Students will continue to refine a variety of ceramic techniques that will improve the consistency and quality of their ceramic artwork. Advanced glazing techniques will be taught. Projects are designed so each student can develop their individual style. Projects include, but are not limited to: Lyric inspired containers, series work, sculpture, wheel projects, and a cultural research project.

Intermediate: 3D ART (1 semester) - 1/2 credit

Prerequisite: Art Foundations or Ceramics

Students will learn various 3D techniques associated with a variety of 3D media. Sculpture, Jewelry making, and Craft units will include carving, forming, modeling, soldering, enameling, fabricating, etching, and forming. While developing individual plans students will utilize a sketchbook, focusing on drawing form as they strengthen their 3D design skills. The rich history and cultures tied to sculpture, jewelry making, and crafts will be explored throughout all units. (This course is a combination of the previous Sculpture/Jewelry Class and Crafts.)

BUSINESS EDUCATION DEPARTMENT

ACCOUNTING I (2 semesters) – 1/2 credit per semester

Prerequisites: Juniors and Seniors only

Accounting students will be able to perform basic accounting procedures as well as learning a variety of other business concepts. This course uses real accounting forms and computers to teach the steps needed to complete the accounting cycle. Accounting is an ideal class for any students who may be interested in pursuing a career in business after high school.

ACCOUNTING II (2 semesters) –1/2 credit per semester

Prerequisites: Accounting I

This class expands on the concepts, skills, and knowledge gained in Accounting I. This advanced course will benefit any student with an interest in any business profession or those students planning to pursue a post-secondary degree in a business field.

COMPUTER APPLICATIONS (1 semester) – 1/2 credit

This course is designed to teach students all of the basic applications of the computer. Students will gain a thorough understanding of how they can best use the following software applications: word processing, spreadsheets, desktop publishing, and multimedia presentations. In addition, each student will learn to integrate information created in one application into other software programs.

INTRODUCTION TO COMPUTER SCIENCE (2 Semesters) - 1/2 credit per semester

Introduction to Computer Science is an engaging course that explores a variety of basic computational thinking and programming concepts through a project-based learning environment. This course uses Snap!, an approachable visual block-based programming language. And Python, a beginner-friendly, text-based programming language. The curriculum for this course was developed by, and is supported by TEALS. TEALS is affiliated with Microsoft and uses local volunteers with computer science backgrounds to assist in the teaching of this course.

DIGITAL MULTIMEDIA (1 semester) – 1/2 credit

Students will learn to master the fundamentals of still picture editing using Photoshop to manipulate digital images captured using cameras and video recorders. Students will also learn to create and edit video projects.

WEB DESIGN (1 semester) - 1/2 credit

Want to learn how to create, design, and post your own website using a variety of software programs? This class covers everything from writing basic HTML to designing graphics for your web site.

HOW TO BE AN ENTREPRENEUR (1 semester) –1/2 credit

Would you like to be your own boss? Developing a new consumer product, creating their own business ideas, and marketing their products are only a few of the skills students will learn while completing this course.

PERSONAL FINANCIAL LITERACY (1 semester) – 1/2 credit

Prerequisites: Graduation Requirement

This course will enable students to manage their own money, make sound financial decisions, and gain an understanding of how our economy works. Students will learn to plan and prepare a budget, manage a checking account, and use credit wisely.

ENGLISH DEPARTMENT

ENGLISH 9 (2 semesters) - 1/2 credit per semester

In English 9, students focus on grammatical usage and effective sentence writing. This is accomplished in conjunction with the development of a clear and precise style of written communication through practice in creative writing and in factual, well-supported paragraphs and essays. Students also focus on understanding various types of texts. Students study the importance of detail in the development of ideas in texts and they examine main ideas, relationships, themes, values, and style in texts. Students will explore texts like a survey course: a play, contemporary titles, choice book units, and a sampling of the canon with a whole class book. In addition, presentation skills, listening skills, study skills, and discussion skills are also developed through instruction and practical application.

ENGLISH 10 (2 semesters) - 1/2 credit per semester

Prerequisites: English 9

English 10 will be concerned with developing reading, writing, and speaking skills through literature, composition, and speech. Students will be required to read novels, plays, and nonfiction pieces; write compositions and essays; study grammar and language usage; and participate in speaking activities.

ENGLISH 11 (2 semesters) - 1/2 credit per semester

Prerequisites: English 10

This course will center around themes such as freedom, the American Dream, survival, identity, and justice. It is designed to acquaint readers with the themes, literary styles, and writers, which are part of the development of the American experience. The readings will reflect the diversity of the themes with an emphasis on a variety of genres such as short story, poetry, essay as well as novel and play. In addition to the reading and discussion of major American literature, there will be a focus on composition, correct grammatical usage, and the development of a mature writing style. A review of ACT material will be incorporated into the course structure.

CREATIVE WRITING (1 semester) - 1/2 credit

This is a one semester English course recommended for students continuing their formal education after high school. Emphasis will be on creativity, usage, and writing style. Various units may concentrate on the writing of short stories, poetry, short plays, children's stories, science fiction, myths, fables, mystery stories, song lyrics, etc. This course will be offered in the fall semester.

INTRODUCTION TO COLLEGE READING AND WRITING (2 semesters) - 1/2 credit per semester

Prerequisites: English 10

This dual credit course with Madison College focuses on enhancing college reading and study techniques and offers students extended practice in applying these strategies to a variety of college level materials, with a focus on nonfiction works. Emphasis will be given to developing the critical thinking and reading skills necessary to be successful college readers. Topics covered will include identifying main ideas and supporting details, highlighting and annotating text, summary writing, and making inferences. Earning credit in this course will ensure placement into English 100 at Madison College. As per Madison College standards, work will not be accepted late. Writing credits are earned in the fall, and reading credits are earned in the spring.

ENGLISH COLLEGE PREP (2 semesters) - 1/2 credit per semester

Prerequisites: Successful completion of English 9, 10, and 11.

This course focuses on developing a sophisticated writing style and writing longer, well-organized, and well-developed essays. Students study the method of making citations and compiling a works cited page. One term paper is required. The class also focuses on methods of study in college, vocabulary for the college bound, and recommended reading for the college bound. Students are expected to learn various study skills, master the required vocabulary, and do extensive reading.

AP LANGUAGE & COMPOSITION (2 semesters) - 1/2 credit per semester

Prerequisites: Successful completion of English 9, 10, and 11 or consent of English instructors in place of English 11.

The Advanced Placement class is designed for those students who have an **accelerated** skill or aptitude in English and who have the time and ability to complete challenging course demands in language and composition. Students will study the art of argument and rhetoric by analyzing nonfiction writings and developing their own writing skills. The course culminates in a 3-hour exam conducted by the Advanced Placement Board. Passing the test may result in 3 college credits, depending on the individual college's recognition of the program. **This course will include summer homework to be turned in the first day of school.**

YEARBOOK – (1 semester) 1/2 credit

Prerequisites: English 9 or Teacher Recommendation

The class gives students hands-on experience in the development of a published annual. Topics include: interviewing, writing, editing, design, photography, advertising, public relations, and salesmanship. First year staff members will learn the terminology and skills needed to develop complete spreads. Junior and senior editors will work cooperatively developing a yearbook theme, laying out pages, learning to plan and publish the finished product, and overseeing the business of creating a yearbook. In some form students will draw it, write it, design it, photograph it, paste it, proofread it, and then experience great pride when the finished product arrives from the printers.

FAMILY AND CONSUMER SCIENCES

FOODS I - (1 semester) - 1/2 credit per semester (cost is \$10.00)

Learn how to cook! This semester covers all the basics of general food preparation. Subjects covered: Safety and sanitation, kitchen measurement, knife skills, reading recipes and basic nutrition. The class addresses how to cook safely, and provide safe food so you won't poison yourself or your friends! You should feel comfortable cooking on your own by the end of this semester.

FOODS 2 - (1 semester) - 1/2 credit per semester(Cost is \$10.00)

Prerequisite: Foods 1

Now that you know the basics, let's explore a variety of different foods to cook. We explore food and cultures from around the world. We learn new recipes and new techniques. The second half of the class focuses on baking. The final for the class includes a Cupcake baking competition.

FOOD SERVICE 1 AND 2: (2 semesters) - 1 credit per semester (Cost is \$10.00 each)

Prerequisites: Foods 1 and 2

Learn a career in the Food Service industry in this vocational course. You are required to take the courses in order. Both courses address food presentation. Food Service 1 includes food safety, kitchen essentials, stocks and sauces, potatoes and grains, and management and serving essentials. Food Service 2 includes cost controls, nutrition, desserts and baked goods, salads, meats, and breakfast foods. Students may be provided with the opportunity to earn their ServSafe License.

DESIGN: FASHION AND INTERIOR (1 semester) - 1/2 credit

Students will select one topic to study, either fashion design or interior design. Both courses are primarily project based. Both classes work together to learn the basics of Elements and Principles of Design.

Fashion Merchandising and Design: This semester course addresses clothing and the personality through different types of clothing. Students learn about different Fashion Designers, Types and parts of clothing. Major projects include designing your own capsule wardrobe. Then the final is designing an article of clothing for a client.

Housing and Interior Design

This semester course includes types and styles of homes as well as styles and types of furniture. Students learn about interior designers and architectural designers. They learn how to design a home of their own, and then how to design a room for a client.

INDEPENDENT LIVING (1 semester) - 1/2 credit

The Independent Living course deals with real-life decision-making events and responsibilities of day-to-day family life, especially financial. Hands-on practice helps to build skills and judgment needed to navigate the world of money and decision-making. Many of the activities in this course helps students learn how to make responsible consumer decisions and understand their consumer rights. Effects of technology on the family and its desirable ends are also of prime importance in this course.

RELATIONSHIPS (1 semester) – 1/2 credit

The Relationships course is a practical guide for building good relationships. It covers topics such as infatuation, rejection, falling in love, and breaking up. The course includes lessons about the emotion and social aspects of human sexuality. You will learn to set boundaries for yourself and confidently navigate romantic relationships.

PARENTING (1 semester) – 1/2 credit

Do you expect or plan to have children of your own some day? Will you be a good parent? Add to your skills by enrolling in this class, designed to help every student become a better parent. After all, it is the MOST IMPORTANT JOB you will ever have. Learn about what is normal and abnormal for children, prevention of birth defects, and how to help children develop. Completion of this course is a prerequisite for the Assistant Child Care Course, and advanced standing class at MATC.

WORLD LANGUAGES DEPARTMENT

The sum of human wisdom is not contained in any language, and no single language is capable of expressing all forms and degrees of human comprehension.

-Ezra Pound

GERMAN I (2 semesters) - 1/2 credit per semester

Marshall High School is committed to starting a cohort of students in German during the 2015-2016 school year and will offer German II to this cohort the following year. A third year of German will be determined on an annual basis and is not guaranteed.

German offers students the opportunity to learn a language that is spoken by millions of people around the world - including many Wisconsinites. First year German will learn a variety of functions (how to order food from German menus, talking about their class schedule, reading the want ads, making plans with friends, etc) but a wealth of information about the country and its culture. Immersing students in real-life situations will strengthen important listening, speaking, and reading skills. Students will also learn about the art and music of Germany and even sample some of its cuisine.

GERMAN II (2 semesters) - 1/2 credit per semester

Second year German is simply a continuation of first year German. Second year German students will continue to learn new skills and reinforce previously learned skills. Students will be able to express wishes and make inquiries and express certain statements with doubt, conviction, and resignation. Students will continue to learn about the culture of Germany and delve into the history and geography of the country.

GERMAN III (2 semesters) - 1/2 credit per semester

Third year German is a continuation of second year German. The course will focus on the last three chapters of the Komm Mit II text. Following these chapters, students will take a look at simple and conversational past tense. Students will use this knowledge to read and write authentic German fairy tales and write about current events. Students will study German commercials and complete an advertising unit during the second semester. Students will study more serious issues such as the Holocaust and read the short story “Die Weisse Rose.” Students will also be required to complete a mini lesson at the elementary school as well.

SPANISH 1 (2 semesters) - 1/2 credit per semester

Spanish 1 develops the basics of reading, writing, speaking, and understanding of the Spanish language. These skills are gained through daily conversational practice, using authentic resources, written and oral projects using the language, cultural exploration, and immersion in the language. Major themes covered include school, food, family, and home. Spanish 1 focuses mostly on using present tense verbs.

SPANISH 2 (2 semesters) - 1/2 credit per semester

Prerequisites: Spanish 1 or successful completion of the middle school Spanish program

Spanish 2 is a continuation of what students learned in Spanish 1. Spanish 2 continues to develop reading, writing, speaking, and understanding of the Spanish language. These skills are gained through daily conversational practice, using authentic resources, written and oral projects using the language, cultural exploration, and immersion in the language. Major themes covered include shopping, experiences, mediums of communication, your school day, and a special event. Spanish 2 also focuses on learning to use the past tense.

SPANISH 3 (2 semesters) - 1/2 credit per semester

Prerequisites: Spanish 2

Spanish 3 is a continuation of what students learned in Spanish 2. Spanish 3 continues to develop reading, writing, speaking, and understanding of the Spanish language. These skills are gained through daily conversational practice, using authentic resources, written and oral projects using the language, cultural exploration, and immersion in the language. Major themes covered include your community, memories of the past, news, movies/television, and cooking.. Spanish 3 continues to focus on the major past tenses as well as commands. In addition, students will read a novel in Spanish 3.

SPANISH 4 (2 semesters) - 1/2 credit per semester

Prerequisites: Spanish 3

Spanish 4 is a continuation of what students learned in Spanish 3. Spanish 4 continues to develop reading, writing, speaking, and understanding of the Spanish language. These skills are gained through daily conversational practice, using authentic resources, written and oral projects using the language, cultural exploration, and immersion in the language. Major themes covered include how to be a good tourist, how will the future be, unforgettable days, and staying in shape. Spanish 4 continues to focus on the subjunctive tense, the future tense, and will review previously learned tenses. In addition, students will read a novel in Spanish 4.

SPANISH 5 (2 semesters) - 1/2 credit per semester

Prerequisites: Spanish 4

Spanish 5 is a continuation of what students learned in Spanish 4. Spanish 5 continues to develop reading, writing, speaking, and understanding of the Spanish language. These skills are gained through daily conversational practice, using authentic resources, written and oral projects using the language, cultural exploration, and immersion in the language. Major themes covered include getting along with others, work and the community, myth or reality, and the meeting of cultures. Spanish 5 continues to focus on many verb tenses. Students may also do a community service project.

MATH DEPARTMENT

MATHEMATICS 1 (2 semesters) - 1/2 credit per semester

Math 1 is a powerful set of mathematical tools that provides the basis for higher mathematics. Students will work collaboratively in Math 1 to solve problems, question, explain and verify, and students will learn that each member of the team has something important to contribute. Topics will include a focus on problem solving, solving equations and proportions, graphing, systems of equations, slope and rate of change, statistics, inequalities and functions. Students will show algebraic functions through the multiple representations of charts, graphs, equations and situations. Scientific calculator required.

MATHEMATICS 2 (2 semesters) - 1/2 credit per semester

Prerequisites: Mathematics 1

Math 2 continues building skills used to solve problems, question, explain and verify. Topics will include a focus on problem solving, quadratic functions, geometric constructions and proofs, probability, surface area, volume, trigonometry, and situations involving rates of growth. Scientific calculator required.

MATHEMATICS 3 (2 semesters) - 1/2 credit per semester

Prerequisites: Mathematics 1 and 2

Math 3 continues building skills used to solve problems, question, explain and verify. Topics will include a focus on problem solving, slopes, derivatives, exponential growth, and regression. Circles, coordinate geometry and function properties are also discussed.

PRECALCULUS (2 semesters) - 1/2 credit per semester

Prerequisites: Mathematics 3

This course is intended to prepare students for AP Calculus. Students will cover a variety of trigonometric topics including radian measure, the unit circle, and trigonometric functions, their graphs, inverses, identities, and applications. We will also focus on expanding and strengthening advanced algebra skills and concepts. Linear, quadratic, exponential, radical, rational, and logarithmic functions are examined in depth. If time permits, some discrete mathematics topics will be explored. Students in this course should have a graphing calculator.

STATISTICS (2 semesters) – 1/2 credit per semester

Prerequisites: Mathematics 3

Statistics is a course based on how to collect, organize, analyze, and interpret numerical information from data. After taking this course, students should be able to take information from a media source (or their own data collection) and determine for themselves the validity of the data collected, what the purpose was in publishing the data, and how they can use that information in their lives. Topics covered include experimental design, frequency distributions, histograms, averages and variation, probability theory, random variables, binomial probabilities, normal distributions, sampling distributions, estimation, and hypothesis testing. A graphing calculator is required. Statistics may be taken concurrently with or before Pre-Calculus and Trigonometry.

ADVANCED PLACEMENT (AP) STATISTICS (2 semesters) - ½ credit per semester

Prerequisites: Mathematics 3

Students have hands-on experience collecting, analyzing, graphing, and interpreting real-world data. They will learn to effectively design and analyze research studies by reviewing and evaluating real research examples taken from daily life. The next time they hear the results from another poll or study, they will know whether the results are valid. As the art of drawing conclusions from imperfect data and the science of real world uncertainties, statistics plays an important role in many fields. The equivalent of an introductory college-level course, AP Statistics prepares students for the AP Exam and for further study in science, sociology, medicine, engineering, political science, geography, and business.

ADVANCED PLACEMENT CALCULUS (2 semesters) - 1/2 credit per semester

Prerequisites: Advanced Math - Trigonometry and Advanced Math - Algebra

Calculus is fundamentally different from the mathematics studied previously. Topics include examining limits, taking derivatives, working with various applications of derivatives, integrals, and integral applications. Students have the option of receiving college credit for this course by taking the AP exam in the spring. Students with a C+ or lower in Pre-Calculus should not expect to take the AP exam at the end of the year. Graphing calculator required.

MUSIC DEPARTMENT

AUDIO TECHNOLOGY (1 semester) - 1/2 credit

This project based music course is open to all students, no experience in band or choir required. In this course you'll learn to run a soundboard for live performances, record musicians, create audio content, and produce your own CD.

BAND (2 semesters) - 1/2 credit per semester

Students taking a fourth year of High School Band may now receive Laude credit if additional requirements are met. Please see Mr. Milock for details.

Band is a year long course open to any student with sufficient previous instrumental music experience. Students will develop technical skills on their instrument as well as study music theory, music history, and rehearsal and performance techniques. Students will participate in pep band, marching band and concert band performances. A wide variety of music for winds and percussion will be studied and performed throughout the year. In addition, students will have individual opportunities to participate in optional events like Solo and Ensemble Contest and Capitol Conference Honors Band.

INSTRUMENTAL EXPLORATION (1 semester) - 1/2 credit

If you have ever wanted to learn to play an instrument this course is for you. In this course you will learn how to read music and perform on a band instrument of your choice. Weekly individual lessons over the summer are required to prepare for group instruction.

CONCERT CHOIR (2 semesters) - 1/2 credit per semester

Concert Choir is open to any student, grades 9-12, interested in singing with others in 3 and 4-part harmony. This year-long class rehearses every-other day, focusing on advancing vocal skills, sight reading and technique while singing a variety of songs including different styles and languages. In addition, a requirement of the group is a performance three times per year outside the school day. Other singing opportunities include Large Group Festival and Solo and Ensemble Festival.

VOCAL MAJORITY (2 semesters) - 1/2 credit per semester

This performance-based ensemble will provide our treble-voice singers another option to showcase their vocal talent. The musical focus of this ensemble will be mostly on advanced SSA and SSAA music. Lastly, the students will have the opportunity to perform at Solo and Ensemble Festival, Large Group Festival, and 3 school concerts. Students may simultaneously take Concert Choir & Vocal Majority, or Show Choir & Vocal Majority, but not all 3. Pre-req: Student has taken at least 2 years of choir. Students who do not meet the prerequisite MUST audition. Talk to Mrs. Jorgenson if you want to audition or know more about the group.

SHOW CHOIR (2 semesters) - 1/2 credit per semester

Show Choir is an auditioned group of student singers, grades 9-12, focusing on vocal skills and techniques, specifically in the styles of classic and contemporary popular music, Broadway, vocal jazz, and collegiate-style a cappella. Show Choir also features dance as a portion of its performance repertoire. The group has a variety of performance opportunities throughout the school year, including but not limited to the Wisconsin Singers Invitational Concert, Solo and Ensemble Festival, Caroling for Community Service, and Chamber Singing in December. Involvement in Show Choir offers a unique opportunity to develop as a vocalist while singing and

dancing as a member of an ensemble. Auditions are held in May for the following school year. Please contact Mrs. Jorgenson if interested in auditioning.

PHYSICAL EDUCATION & HEALTH DEPARTMENT

PHYSICAL EDUCATION REQUIREMENT FOR GRADUATION- 3 semesters--1.5 credits – Physical

Education must be taken at least one semester in each of three out of the four years of high school. Students may not substitute varsity athletic competition in lieu of Physical. Education.

Students will be able to register for one Physical Education class each semester of their high school career. If a student would like to take more than one Physical Education class in a semester please see Mr. Denniston.

As of 2020-2021, there will not be Physical Education 9. All students in grades 9, 10, 11, and 12 can take any of the P.E. courses.

TEAM SPORTS (1 semester) – 1/2 credit

This course will be team sport specific. The class will go more in-depth with each team sport in order to develop a better understanding of specific skills and strategies. It is important students learn in-depth game rules of all Team Sports we cover during the semester, demonstrate more advanced knowledge involved in all Team Sports during the semester, and be able to explain advanced strategic approaches to activities during the semester. Students will be graded on Effort/Participation, Written Tests, Skills Tests, and Teacher Observation of Daily Skills.

Units Studied in Course: Soccer, Speedball, Touch Football, Lacrosse, Ultimate Frisbee, Volleyball, Floor Hockey, Basketball, Broomball, Eclipse Ball, Softball

This class may be taken only once per school year.

INDIVIDUAL SPORTS (1 semester) – 1/2 credit

This course will be individual sport specific. The class will go more in-depth with each individual sports in order to develop a better understanding of specific individual sport skills and strategies. It is important students learn in-depth game rules of all Individual Sports we cover during the semester, demonstrate more advanced knowledge involved in all Individual Sports during the semester, and be able to explain advanced strategic approaches to activities during the semester. Students will be graded on Effort/Participation, Written Tests, Skills Tests, and Teacher Observation of Daily Skills.

Units Studied in Course: Archery, Badminton, PickleBall, Table Tennis, Indoor Tennis, Track and Field, Disc Golf, Golf, Physical Fitness

This class may be taken only once per school year.

FITNESS I (1 semester) – 1/2 credit

This course will be an introduction to personal fitness. The course will consist of physical fitness activities other than individual and team sports. The class is intended for the student who is more serious about their personal physical fitness and willing to experience a more intense physical fitness class. The class is designed for those students who want to develop an individualized workout plan to increase one's personal fitness and athletic ability. Students will be graded on Effort/Participation, Weekly Personal Workout Completion, Teacher Observation of Daily Skills, and a Semester Project.

The course will include the following at an introductory level: Strength Training, Speed Training, Agility Training, Cardiovascular/Endurance Training, Flexibility Training, and Weight Training.

This class can be taken both semesters during a school year.

ADVANCED FITNESS (1 semester) - 1/2 credit

This course will be available for all 10th-12th grade students. This course will be a more challenging and in-depth personal fitness class designed for the student that is much more serious about their personal fitness and wants the ultimate challenge. The course will consist of physical fitness activities other than individual and team sports. The

class is designed for those students who want to develop an individualized workout plan to increase one's personal fitness and athletic ability. Students will be graded on Effort/Participation, Weekly Personal Workout Completion, Teacher Observation of Daily Skills, and a Semester Project.

The course will include the following at an advanced level: Strength Training, Speed Training, Agility Training, Cardiovascular/Endurance Training, Flexibility Training, and Weight Training

This class can be taken both semesters during a school year.

HEALTH EDUCATION (1 semester - 1/2 credit

This 0.5 credit semester course is required for graduation and focuses on a **skilled based approach** to health education. We will cover topics such as healthy habits, mental health, human growth and development (including: puberty, male and female reproduction, conception, fetal development, shaken baby syndrome, healthy relationships/relationship abuse, contraception, and sexually transmitted infections), alcohol, tobacco, illegal drugs, CPR, and nutrition. This class will have opportunities to respond, discuss, interpret, share with partners and in small groups.

Primary Text: The 7 Habits of Highly Effective Teens, by author Sean Covey (provided by district)

Supplemental Texts and/or Materials: Various websites, video clips, library books, news articles, etc.. as necessary.

SCIENCE DEPARTMENT

ADVANCED PLACEMENT BIOLOGY (2 semesters) - 1/2 credit per semester

Prerequisite: Chemistry

The AP Biology course is designed to be the equivalent of a college introductory biology course usually taken by biology majors during the first year of college. This course is ideal for students with advanced skills in science. This AP course differs significantly from other science courses in that a college-level textbook is used, labs are equivalent to those conducted at the college level, and significant time and effort will be required of students. Topics covered include molecules and cells (25% of the course), heredity and evolution (25% of the course), and organisms and populations (50% of the course). Students can earn college credit for the class by passing the AP Biology Exam given by the College Board in the spring.

ADVANCED PLACEMENT CHEMISTRY (2 semesters) – 1/2 credit per semester

Prerequisites: Chemistry ; Recommended Prerequisite: Algebra II

Advanced Placement (AP) Chemistry course is a rigorous, college-level class that provides an opportunity to gain the skills and experience colleges recognize. This course is ideal for students with advanced skills in science and interest to pursue a career in science or engineering. A college-level textbook is used, labs are equivalent to those conducted at the college level and significant time and effort will be required of students. Students cultivate their understanding of chemistry through inquiry-based investigations, as they explore topics such as: atomic structure, intermolecular forces and bonding, chemical reactions, kinetics, thermodynamics, and equilibrium. Students can earn college credit for the class by passing the AP Chemistry Exam given by the College Board in the spring.

ANATOMY & PHYSIOLOGY I (1 semester) - 1/2 credit

Prerequisite: Chemistry

This course explores the components of the human body involved in motion and structural support. Systems covered include tissues, skin, skeletal, and muscular. Various labs and model building activities are integrated into each unit.

ANATOMY & PHYSIOLOGY II (1 semester) - 1/2 credit

Prerequisite: Chemistry

This course explores the components of the human body involved in excretion, digestion, cardiovascular, and circulation. It is recommended, but not required, that students take this course immediately following Anatomy and Physiology I, as all body systems work together. Various labs and model building are integrated into each unit.

BIOLOGY RESEARCH (1 semester) - 1/2 credit

Prerequisite: Biology or Science 9

This course is designed to engage students in questions not covered in other biology classes. Students complete projects individually, in groups, and as an entire class. Students demonstrate understanding by creating a variety of products (ex: presentations, videos, papers, demonstrations, etc...). Students can select topics of study and will conduct experiments using a number of organisms. Popular topics include bacterial and viral diseases, comparative animal anatomy, conservation and environmental education. Students will conduct an independent research project and present their work.

CHEMISTRY (2 semesters) - 1/2 credit per semester

Prerequisites: Biology or Science 9 and Mathematics I

An introductory course in chemical practice and theory. Topics include: atomic structure, periodic table, chemical bonds, formula writing, chemical equations, ionization, chemical reactions, the mole concept, and ions. Problem solving techniques, relevance to current news and environmental topics are stressed. Basic laboratory techniques are taught as well as lab analysis. Scientific calculator is required.

EARTH SCIENCE I (1 semester) – 1/2 credit

Prerequisite: Biology or Science 9

Students may enroll in either semester of Earth Science for 1/2 credit or preferably, both semesters for a full credit. Earth Science satisfies the science requirement for any course of study including college preparatory. Earth Science I will focus on Geology (including earthquakes, volcanoes, plate tectonics and earth materials) and Hydrology (streams and groundwater). Students will be given many opportunities for hands-on laboratory experiences.

EARTH SCIENCE II (1 semester) - 1/2 credit

Prerequisite: Biology or Science 9

Earth Science satisfies the science requirement for any course of study including college preparatory. Students will develop an understanding of Earth's position and significance in the universe, its content and processes. Earth Science II surveys topics of Astronomy (including stellar evolution and the origin of the universe and our solar system), Meteorology (weather) and Climate (including climate change). Students will be given many hands-on activities and laboratory experiences.

HEALTHCARE CAREER EXPLORATION (1 semester) - 1/2 credit

Prerequisite: Biology or Science 9

This course is designed to introduce the student to a wide variety of healthcare careers. The nature and scope of the profession, including the educational and physical requirements, as well as, personal characteristics of each career is discussed. The healthcare system with a historical perspective is presented. The student is introduced to ethical, legal, and safety considerations in healthcare. The student will investigate career securing strategies and tools. In learning about all the various careers, you will learn the applicable content associated with each career pathway and gain new knowledge of the professions from primary sources (guest speakers!).

HUMAN BIOLOGY (1 semester) - 1/2 credit

Prerequisite: Science 9

Human biology focuses on the biology within the human body. Students will engage in learning about cells and the body's organization and hierarchy. Students will focus on several body systems including the nervous system and investigating how different drugs can change brain functioning. Students will learn about reproductive systems and how genes are transferred from parents to offspring. Finally, students will compare and contrast the causes of human disease including genetic diseases, infectious diseases, and complex diseases like cancer.

MEDICAL TERMINOLOGY 1 (1 semester) - 1/2 credit

Prerequisite: Biology or Science 9

Medical Terminology 1 is a course that will develop skills to enhance working knowledge of the language of medicine. Students acquire word-building skills by learning prefixes, suffixes, roots, and abbreviations. Utilizing a body-systems approach, the student will define, interpret, and pronounce medical terms relating to structure and function, pathology, diagnosis, clinical procedures, and pharmacology. The cardiovascular system will be of focus at the end of the semester to allow students to apply their understanding of the medical language.

MEDICAL TERMINOLOGY 2 (1 semester) - 1/2 credit

Prerequisite: Biology or Science 9; Medical Terminology 1 encouraged

The focus of Medical Terminology II is on communication using the medical language in various body systems. It will provide students the opportunity to further develop their skills learned in Medical Terminology I and apply them towards body systems, such as Respiratory, Blood, Lymphatic and Immune Systems, Reproductive Systems, and others with time permitting and student choice. Analyzing medical terms using word components and classifying terms by the structural organization of the body will be emphasized. Both the written and spoken formats for using language will be addressed, including word construction, definition, spelling, pronunciation of medical terms, and interpretation and application of the medical language to case scenarios.

PHYSICS I (2 semesters) - 1/2 credit per semester

Prerequisite: Completed or currently enrolled in Mathematics II

Physics I addresses the topics of motion, forces, and energy. Laboratory activities, demonstrations, and other hands-on experiences help to drive and confirm classroom theory.

PRINCIPLES OF ENGINEERING (2 semesters) - 1/2 credit per semester

Prerequisite: Biology or Science 9

The Principles of Engineering course is an integrated, interdisciplinary, hands-on, laboratory-based set of case studies that convey concepts, principles, skills, techniques, and attitudes. Core topics include ethics, physical accommodation, ergonomics, structures, systems, and the interaction between society and technology. Techniques that are developed include design, modeling, optimization, and fabrication.

SCIENCE 9 (2 semesters) - 1/2 credit per semester

This course is designed to integrate the study of biology, chemistry, physics, and earth science into a single course so that connections between these disciplines are illuminated for students and so that students are enabled to make informed decisions about what to study next. This course replaces Biology offered 2017-18 school year.

SOCIAL STUDIES DEPARTMENT

AMERICAN HISTORY (2 semesters) - 1/2 credit per semester

This is a general survey course that ranges from the final days of the Civil War to events of the current time. Emphasis of the course is on the changing social, economic, and political climates over the past 150 years in the United States and our role in our changing world.

WORLD HISTORY (2 semesters) - 1/2 credit per semester

This class presents a multicultural global perspective of the world by era. The human experience from the earliest origins to the modern period are explored; examining the cultural diversity and identity, global interdependence, human rights, and modernization through time and their impact and influence on the modern world.

AMERICAN GOVERNMENT AND CITIZENSHIP (1 semester) - 1/2 credit

Prerequisite: American History

A study of the basic political framework and Constitution of the United States, how politicians are selected and elected, who has influence on political policies, and how those choices are made. Students will closely look at political decisions that have had great influence on our country and learn about the role of citizens in our country.

PSYCHOLOGY I (1 semester) - 1/2 credit

Prerequisite: Junior/Senior Class Standing

This course focuses upon a variety of topics relating to the human mind and human behavior. Examples of topics to be covered are the following: psychology as a science, the brain, motivation, consciousness, and adjusting to a changing world.

PSYCHOLOGY II (1 semester) - 1/2 credit (LAUDE)

Prerequisite: Junior/Senior Class Standing

This course will continue the concepts that were introduced in Psychology I. The focus of this course will be the development of the individual and our sense of self. Examples of topics to be covered are the following: learning, intelligence, aging and development, mental illness, and social psychology.

AMERICAN MILITARY HISTORY (1 semester) - 1/2 credit (LAUDE)

Prerequisite: Junior/Senior Class Standing or Sophomore with written History teacher permission

This course will cover the basic creation of our different branches of the military and then move on to cover the major American conflicts. It will look at important people, strategies, outcomes, and events that have shaped our country's military from the days of the colonial militia to our current involvement in foreign conflicts. This class will be research and discussion based.

SOCIAL PROBLEMS (1 semester) - 1/2 credit

Prerequisite: American Government and Junior/Senior Class Standing

This class will focus on current domestic problems that impact the social structures, culture, and economic future of the United States. Students examine a variety of topics, which may include issues of sex, gender, and social class; war and international conflict; crime and drugs; poverty and the unequal distribution of wealth; media and social media; and environmental issues. This class will be research and discussion based.

AREA STUDIES: HISTORY OF THE MIDDLE EAST (1 semester) - 1/2 credit (LAUDE Optional)

Prerequisite: World History

This course will focus on the socio-geographic area of the Middle East, investigating the history of the region and its peoples. Topics studied include the rise of Abrahamic religions, Medieval empires and their conquests, the socio-political power shifts of the 20th Century, and the rise of ISIS. By the end of the semester, students will have a better understanding of the interwoven complexity of the people and cultures of the Middle East in the present day, and why the area's relations and international relations are currently the way they are

TECHNOLOGY EDUCATION DEPARTMENT

Introductory: AUTO MAINTENANCE (1 semester) - 1/2 credit (10th grade recommended)

This class is designed to meet the needs of anyone who plans to drive a car or explore careers in the automotive area. Basic fundamentals of engine operation and automotive maintenance will be covered. Areas of study include: small engines, ignition, fuel systems, lubrication systems, tires, wheels and the financial aspects of purchasing a car will be explored. This is a hands-on class so expect a few dirty fingernails!

Introductory: HOME MAINTENANCE (1 Semester) 1 / 2 credit

How do I fix that hole in the drywall so the landlord won't see it?

The focus of this course is to inform students of common maintenance and repair issues that they may face as a renter or homeowner. This information will allow the individual to evaluate the problem and aid the decision

making process. Fix it myself or call in the professional. Instructional units will address common household problems from electrical issues, basic plumbing, construction repair and finishing.

Introductory: METALS I (1 semester) – 1/2 credit Cost is \$20.00)

Metals I is an introductory course to the field of metalworking. Metalworking Careers, how metals are produced and why metal is the number one choice in manufacturing will be explored in the classroom. Three-fourths of your time will be spent in project based learning activities that allow you to explore the processes of bending, shaping, cutting and joining metals. Don't let the machines intimidate you. They are quite easy to operate with a little instruction.

Intermediate: METALS II (1 semester) - 1/2 credit (Cost is \$25.00)

Metals II is designed to dovetail with Metals I. Any student seeking to expand their knowledge gained in Metals I, is encouraged to follow-up with Metals II. While this is a stand-alone class it is recommended, but not required that you take Metals I first. We will expand on the basic concepts explored in Metals I, with further skill development in welding and deeper focus on machine tool metalworking.

Advanced: METALS III (2 semesters) - 1/2 credit per semester (Cost is \$30.00)

Prerequisites: Metals II

Metals III is designed to meet the needs of a student seeking to develop a broad knowledge of metalworking skills that interface with a variety of technical career choices. Advanced machining techniques on the lathe, and milling machine will be covered. Advanced welding techniques will include gas tungsten arc welding, gas metal arc welding, shielded metal arc welding and plasma cutting.

Advanced: PRINCIPLES OF ENGINEERING (2 semesters) – 1/2 credit per semester

Prerequisite: Biology or Science 9

The Principles of Engineering course is an integrated, interdisciplinary, hands-on, laboratory-based set of case studies that convey concepts, principles, skills, techniques, and attitudes. Core topics include ethics, physical accommodation, ergonomics, structures, systems, and the interaction between society and technology. Techniques that are developed include design, modeling, optimization, and fabrication.

Introductory: Small Engines (1 semester) - 1 / 2 credit

The Small Engines course is designed to teach students the mechanics of smaller gas powered engines. This course is an introductory course designed to give the students the mechanical knowledge of engine parts and processes. In this class students will focus on the step by step break down and rebuilding of a smaller gas powered engine. Students will be partnered up and given their own engine to break down and put back together. By learning the inner operations of how engines are designed and constructed, students will understand the concepts and terms of larger engines before moving onto the Auto Maintenance course.

Introductory: WOODWORKING I (1 semester) – 1/2 credit (Cost is \$20.00)

Woodworking I is a basic woodworking course designed to give the student an opportunity to become familiar with basic measurement, materials and the processes involved in the construction of quality wood products. Projects will be designed as an introduction to the available tools and processes in the wood shop. Particular attention will be placed on basic power tool operation and safety, woodworking joinery and to building the necessary skills to proceed to Woodworking II. This course is designed for all students; college or work force bound. All skill levels are welcome. Project fees apply and are based on material volume used by the student.

Intermediate: WOODWORKING II (1 semester) – 1/2 credit (Cost is \$25.00)

Woodworking II builds on the skills learned in Woodworking I. Students will continue their education to further develop the basic skills involved in constructing small detailed wood projects. Attention will be placed on advanced power tool safety and maintenance, advanced joinery and construction methods, measurement, hardware installation, reading a drawing/plan, and an introduction to designing and planning a project.

Advanced: WOODWORKING III CABINETMAKING (2 semesters) – 1/2 credit per semester (Cost is \$30.00)

Prerequisites: Woodworking I & II

Woodworking III is an introduction to small/large cabinetry construction and advanced woodworking techniques. This course builds on the beginning skills acquired in Woodworking I and Woodworking II and takes it to the next step. Students will be designing and constructing high quality pieces of furniture with more in-depth joinery and assembly processes. Topics that will be covered include estimating the cost of project materials, designing, purchasing materials, door and drawer construction. Project fees apply and are based on the material volume calculated in the design and used by the student in construction.

Advanced: INTRODUCTION TO AVIATION (1 semester) – 1/2 credit

Prerequisite: Instructor approval or Physics/enrolled in Physics. #21013

The course will begin with brief history of aviation from the Wright Brothers to present as well as a preview to becoming a private and commercial pilot. The curriculum will also focus on the science of flight: why an airplane flies and the forces that affect an airplane. Emphasis will also be placed on the airplane's power plant and the flight instruments. The aspects of meteorology that are of concern to pilots will also be covered as well as how weight and balance affect flight. The final part of the course will focus on the basics of navigation and how to use navigation radios, sectional charts, and flight computers. Students will apply this knowledge during lab time with the aid of Microsoft's Flight Simulator software.

INDEPENDENT/SELF-DESIGNED LEARNING

PASSION PROJECTS (1 semester) - 1/2 credit, repeatable

Prerequisites: Successful completion of 1 year of high school with no failing grades

A passion project is an ongoing project where you learn or create something because you want to do it. Essentially, it encourages learning for the sake of learning. The projects focus on the interests and passions of our students, aligned with an academic discipline. The student would engage in the planning and assessment process to design their project. Upon successful completion and defense, this project will earn elective credit.

EARLY COLLEGE CREDIT PROGRAM

This program replaces Youth Options/Course Options and permits 9th-12th grade students enrolled in a public school to attend a Wisconsin institution of higher education for the purpose of taking one or more nonsectarian courses. The institution of higher education must admit a pupil to attend a course if the pupil meets the requirements and prerequisites of the course and there is space available in the course. The purpose of this program is to allow students the option of taking college courses for post secondary credit or the purpose of taking an advanced level course that is not comparable in the regular high school sequence.

The cost of this program varies on the course selection and credit earned. If a participating pupil takes a course for post secondary credit only then the pupil is responsible for paying the cost. If the student takes the course for high school credit, it must be approved by the Marshall School District. If approved by the School District for high school credit, the school district shall be responsible for tuition, fees and books.

Students planning on using this option must apply to the School District by March 1 for the fall semester and October 1 for the spring semester.

WORK RELEASE GUIDELINES

For a student to be considered for a work release position, they must meet the following conditions:

1. Meet with the Guidance Counselor and the Work Study Coordinator.
2. Have attained a minimum of junior credit status.
3. Work release must be applied for prior to the beginning of the semester and will continue through the add/drop period only.
4. A maximum of 2 credits can be earned per year with a work release program.
5. Students are required to submit weekly login sheets and hours to Work Study Coordinator to earn credit and continue in the program. If a student is more than 2 weeks late turning in their log in sheets, they may lose their Work Study privileges.
6. Students are encouraged to pursue alternatives to their high school courses by exploring options at MATC or other university campuses. All vocational education programs follow the district's policies of nondiscrimination on the basis of race, color, national origin, sex, age or handicap in all activities and in employment. In addition, arrangements can be made to ensure that the lack of English language skills is not a barrier to admission or participation.

DANE COUNTY YOUTH APPRENTICE PROGRAMS

Youth Apprenticeship is a one or two year elective program that combines academic and technical classroom instruction with mentored on the job learning for high school students. The program is offered through Dane County School Consortium for students entering their junior or senior year in high school.

You will attend academic classes at Marshall High School or take an evening class at a separate school or location, for which you receive high school credit. You may even take a class at MATC. You will work at your job site during the school day, evening, weekend, or summer for which you will be paid. You will need to clear some work hours in your class schedule for work hours.

One-year program = 450 to 480 hours = 2 credits

Two year program = 900 to 960 hours = 4 credits

If you are interested in exploring the Youth Apprentice option contact the Youth Apprenticeship Coordinator or School Counselor for more information. You may also log on to the DCSC website for application forms and further information: <https://mydcsc.com/>

DUAL CREDIT COURSES

Dual credit allows a student to receive technical college credit upon completion of a course. The student will receive an official technical college transcript with grade and credits recorded upon completion of the course. The entire technical college course is taught at the high school. There is no cost to the student for this coursework, it is an agreement between Madison College and the local school district.

The following is a list of current dual credit courses at Marshall High School:

College Reading and Writing

JEDI ONLINE COURSE OFFERINGS

Haven't found the course you are looking for? Check out <http://jedivirtual.org/catalog.html#Middle> for all of the online courses Marshall High School offers through the JEDI Virtual School. This is a way for Marshall School District to provide courses that only a few students may be interested in. If you have questions about specific courses or if you would like to sign up for courses, please contact the school counselor.

The cost of these courses varies depending on the source. The district will assume the cost to these courses and will be billed by JEDI. However, if the student earns a failing grade, the cost will be the responsibility of the family. Please contact the school counselor for more information about the JEDI application and approval process.