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THE CURRICULUM

Curriculum Model

Credits required for graduation: 26

Semester classes earn ½ credit

Year-long classes earn 1 credit

Required courses for all students are:

FRESHMAN:

Math

English

Freshmen Physics/Freshmen Chemistry

Health (Credit is earned during 8th grade)

Physical Education

U. S. History

SOPHOMORE:

English

Biology

American Government/World History

Physical Education

Math

JUNIOR:

English

Economics/Social Studies elective

Physical Education

Math

Science

SENIOR:

English

** Passing of Civics Exam is required for graduation.

Students **must** fill out their schedules with electives from the following curriculum. Numbers after each course refer to the grade level at which the course may be taken. Also, students' 4-year career plan must be updated and approved.

CHANGING COURSES

A student may not drop a semester class or add one under any circumstance after the 1st week of each semester, unless a teacher initiates the change and the Principal approves of it. Students enrolled in a year-long class, **especially** Advanced Placement classes, are required to stay in the class for the entire year. Students in a year-long class cannot drop the class at the end of the semester. When a student signs up for a year-long class, they do so with the understanding that they are

making a year-long commitment to the class and their request to drop the class (after the first week of the school year) will not be approved.

GRADUATION REQUIREMENTS

The number of credits required to graduate from Westfield Area High School is 26 credits. Graduation requirements include:

- 3 credits of Mathematics
- 3 credits of Science
- 4 credits of English
- 1 credit of U.S. History
- ½ credit of American Government
- ½ credit of World History
- ½ credit of Economics
- ½ credit of Social Studies Electives
- 1½ credits of Physical Education – Only ½ credit can be completed via Policy 5460.01
- ½ credit of Health – to be completed in middle school or done via Odysseyware in HS.
- 11 elective credits

COURSE DESCRIPTIONS

AGRICULTURE

Introduction to Agriculture

Open to: 9-12

Pre-Requisite: none

**Semester Course
0920**

Still wondering if agriculture has something for you? This course will answer that question. Designed with hands on activities and fieldtrips, short units covering many areas of agriculture will provide the students with a jumping off point into further study. Areas to be discussed: Food Science, Horticulture, welding, introduction to the Large Animal Industry, parliamentary procedure, and current event issues in the agriculture industry. A major focus will be on the National FFA Organization and earning money through a student developed Supervised Agriculture Experience (SAE) Program. Students are **strongly encouraged** to take this course before taking further agriculture. A \$5.00 fee is required for labs and welding supplies.

Principles in Animal Science and Management

Open to: 9 – 12 (Science Credit)

Pre-Requisite – none

**Year course
1026**

This course provides animal science fundamentals including animal health, animal environment, anatomy and physiology, genetics and reproduction, animal feedstuffs, and animal related safety. We will also be covering feed management and nutritional value and economics of feed type methods.

Floral Design**Open to: 9-12****Pre-Requisite: none****Semester course****1033**

Do you enjoy receiving flowers? Do you know where they come from? How much did they cost? This class will take you behind the scenes of the floral industry. You'll learn about how many countries' economies are affected by the floral industry. This class will also be hands on, learning how to arrange many different types of flowers in a variety of artistic designs. This class will have a fee of \$10 for supplies.

Food Technology (Science Credit)**Open to: 9-12****Pre-Requisite: none****Year course****1027**

This course will address the growing demand of the food processing industry. Through hands on activities, students will discover the techniques used in this industry. In this course, students will understand how food is processed, graded and tested for quality control. Students will be making, processing and analyzing various products such as dairy, meat, and other agricultural processed items while analyzing the scientific methods behind those products.

Horticulture and Landscaping**Open to: 10-12****Pre-Requisite: none****Semester course****1029**

In one of the most rapid growth areas of agriculture, students in this class will understand plant propagation, pest management, growth stimulants, rooting hormones, house plants, bedding plants, landscape design, hydroponics, lawn maintenance, golf course management, trees and shrubs, gardens, and the art of Bonsai. Students will be using a professional Landscaping software program to design and bid out an actual project.

Natural Resources & Wildlife Management**Open to: 10 – 12****Pre-Requisite – none****Semester course****1031**

This course is designed to develop awareness and appreciation of natural resource conservation and environmental issues. Units include ecology, taxidermy, soil, water, forestry, hunting, fishing, wildlife, conservation reclamation, population and outdoor activities. Current issues regarding the environment will be addressed. Students will have hands on activities utilizing the School Forest, 450 gallon aquaculture system, fishing rod building, and also perform taxidermy on an animal.

Outdoor Certifications for Wisconsin**Open to: 9 -12****Pre-Requisite – none****Semester course****1034**

Do you enjoy being in the wilderness of Wisconsin? Do you enjoy outdoor recreation? This course will offer you the opportunity to learn and get certified in the areas of Snowmobile Safety, ATV Safety, Boat Safety, as well as Hunter Safety.

This course will give you the opportunity to give you a great relationship with our local Department of Natural Resources. This course does require fees of \$10 for each area of certification. If you are already certified in an area, you do not need to pay again to be recertified.

Aquaculture

Open to 10-12

Year course

Pre-Requisite – Intro to Ag

1030

Have you ever wondered if you could be self-sustainable? This course will allow you to grow fish from water to plate as well as growing vegetables aquaponically. You will be able to conduct your own inquiry based science experiment. We will be doing food conversions, water quality testing, growing food, and filleting fish. This is a growing trend in the Agricultural industry and is an amazing way to get your feet wet!

Leadership and Hot Topics in Agriculture

Open to: 10-12

Semester course

Pre-Requisite – Instructor Consent

1025

Be prepared to learn outside of the box! Wisconsin's agriculture industry generates \$59.16 billion in economic activity annually-10% of Wisconsin's economy. Hot topics in the area of Animal Agriculture and Environmental Issues; International Agriculture, Agricultural news and other trends in Agribusiness will be discussed. This course is designed to instruct students in areas of leadership, human relation skills, agricultural career development, problem solving, community service and leadership projects and much, much more! Utilization and promotion of the Biodiesel Program will act as a real world business application.

Supervised Agricultural Experience

Open to: 9-12

Year course

Independent Study

1042

This course is an independent study class in collaboration with the Agriculture teacher. This is for FFA Members only planning on making all of the strides to obtain a competitive record book.

ART

Art Introduction

Open to: 9 – 12

Semester course

Pre-Requisite – none

0919

This one semester focuses on the study of the elements and principles of design, art history and provides an introduction of many art mediums including: drawing, painting, printmaking, sculpture. Completion of this course is a prerequisite and serves to provide a gateway to all other studio courses in the art department.

Drawing I

Open to: 9 – 12

Semester course

Pre-Requisite – Art Introduction

0956

This class explores the fundamentals of drawing using dry mediums such as pencil, chalk and oil pastel, pen and ink and many different drawing surfaces. Subject matters such as wildlife, portrait, landscape and perspective are covered. Students also learn about the historical development of drawing and about different innovations by leading artists.

Drawing II

Open to: 9 – 12

Semester course

Pre-Requisite – Drawing I

0957

This class allows students who successfully complete Drawing I to further develop their drawing skills. Drawing problems are based on conceptual thinking and are based on current and past artist's work.

Painting I

Open to: 9 - 12

Semester course

Pre-Requisite – Art Introduction

0958

Painting students study transparent and opaque painting mediums such as watercolor, tempera, acrylic, and oils. Students study paint application and color theory. Surface preparation and care and use of brushes are also discussed. Students will study design concepts and the history of painting.

Painting II

Open to: 9 - 12

Semester course

Pre-Requisite – Painting I

0959

Painting II is a continuation of Painting I and builds on the skills developed in the first semester. Advanced painting techniques and possibilities of the media are studied.

Printmaking I

Open to: 9 - 12

Semester course

Pre-Requisite – Art Introduction

0960

Printmaking covers the 4 main traditional printmaking techniques of relief, intaglio, stencil and planography. Screen Printing will be introduced. Students will learn basic techniques and materials as well as general printmaking traditions. Students will look at the development of printmaking through history.

Printmaking II

Open to: 9 - 12

Semester course

Pre-Requisite – Printmaking I

0961

Printmaking II is a continuation of the first semester of printmaking. It allows the serious student to develop further skills in the printmaking medium. Students will further explore the 4 main traditional printmaking techniques of relief, intaglio, stencil and planography.

Ceramics I

Open to: 9 - 12

Semester course

Pre-Requisite – Art Introduction

0964

Students will work with technical problems of clay. Handmade and wheel thrown techniques will be covered as well as glaze techniques and glaze formulation. Students will study the work of different ceramic artists.

Ceramics II

Open to 9 – 12

Semester course

Pre-Requisite – Ceramics I

0965

Continuation of Ceramics I, students will further their knowledge of ceramic hand building and wheel thrown techniques. Students will improve on control of clay from the first semester and investigate different surface designs and treatments.

Fibers I

Open to: 9 – 12

Semester course

Pre-Requisite – Art Introduction

0966

Students will be introduced to different methods of creating fiber-based fabrics and forms. Weaving, knitting, felting, macramé and other knotting. Also covered will be fabric design techniques such as stamping, screen-printing, tie-dye, batik, and applique.

Fibers II

Open to: 9 - 12

Semester course

Pre-Requisite – Fibers I

0967

Students will continue to practice techniques involved in fabric creation and decoration. Students will further their knowledge of practices learned in Fibers I.

Sculpture I

Open to: 9-12

Semester course

Pre-Requisite - Introduction to Art

0962

Sculpture students will work in many 3-D mediums including plaster, clay, cardboard, assemblage and art metals such as sterling silver and pewter. Students will study decorative as well as functional form.

Sculpture II

Open to: 9-12

Semester course

Pre-Requisite - Sculpture I

0963

Continuation of Sculpture I, students will work in many 3-D mediums including plaster, clay, cardboard, assemblage and art metals such as sterling silver and pewter. Students will continue to study decorative as well as functional form.

Visual Arts Photography

Open to: 11 – 12

Semester course

Pre-Requisite – Intro to Art & Consent of Instructor

1039

This is a semester long class designed to give students technical knowledge of traditional film photography as well as digital image capturing and manipulation.

Students will demonstrate understanding elements and principles of design through the use of photography. Some film and print paper will be provided, but there may be a cost for additional paper and film, depending on the amount used by the student.

AP Art Studio

Open to: 11 – 12

Year course

Pre-Requisite – Consent of Instructor with proper class fulfillments 1220

Students will choose one of three portfolio areas: 2D Design, 3D Design, or Drawing. They will work under contract to fulfill the requirements for AP portfolio submission. Works from previous classes as well as from the AP class may be used to complete these requirements. Students must complete all AP requirements but are not required to submit for college credit.

BUSINESS EDUCATION

Introduction to Business and Marketing

Open to: 9 – 12

Semester course

Pre-Requisite – none

0917

Marketing and Business involves the many activities needed to get products from producers to consumers. It is one of the most exciting and vital career areas you could ever explore! This class is a must for all students who plan on succeeding in our very competitive free enterprise system. Students will explore all of the functions of marketing and business. Students will also investigate the consumer approach of how marketing affects all consumers. Specifically, students will discuss the world of marketing; marketing information management; product planning; pricing; distribution; financing; personal selling; and promotion. In order to gain real world experience in the marketing and business fields, students will participate in various scenarios, simulations, and projects throughout the course.

Introduction to Marketing

Open to: 9-12

Semester course

Pre-Requisite – None

1018

Introduction to Marketing will prepare you with an understanding of the broad field of marketing. Since four out of five careers deal with marketing, you can benefit from the valuable career guidance from this course. Topics covered in this course include: sales, marketing strategies, business and economic concepts. Leadership skills are practiced in class through role playing, public speaking activities and solving real business problems.

Computer Applications

Open to: 10 – 12

Semester course

Pre-Requisite – None

0926

Simply being able to use technology is no longer enough. Today's students need to be able to use technology to analyze, learn, and explore. Students need to learn effectively and live productively in an increasingly global and digital world. Become well-prepared for college and career by learning and master the MS Office Suite focusing on Excel, Access, and professional presentations. Infused throughout

the course are Web 2.0 tools designed to expand your knowledge of current technological trends and devices.

Sports and Event Marketing

Open to: 10-12

Semester course

Pre-Requisite – Intro to Business/Mkt

1114

This course is designed to provide the student with the skills necessary to apply marketing concepts to the sports and entertainment industries. Students will explore the connection between marketing and the sports and entertainment industries, focusing on promotion and sales. The areas of study include event promotion, sponsorship, development and sales, event management, and the basic functions of marketing as they apply to the sport and entertainment industries. Students will also see how marketing operates in the movie, music, and theatre industries. If you are interested in sports and entertainment, or if you want to tap into your creative side, this is the class for you!

Accounting

Open to: 11 –12

Year course

Pre-Requisite – Intro to Bus/Mkt

1113

Students first will learn how to plan for and evaluate their operating, financing, and investing decisions and then how accounting systems gather and provide data to internal and external decision makers. This year long course covers all learning objectives of a traditional college level financial accounting course, plus those from a managerial accounting course. Topics include introduction to accounting, accounting information systems, time value of money, and accounting for merchandising firms, sales and receivables, fixed assets, debt and equity. Other topics include statement of cash flows, financial ratios, cost volume profit analysis and variance analysis.

Business and Marketing Principles

Open to: 10 – 12

Year course

Pre-Requisite – Intro to Bus/Mkt

1016

Whether you are majoring in a business field or non-business field, there are several reasons to study marketing and business. Marketing and business play an important role in our society. It is vital to business success, offers outstanding career opportunities, and affects your life everyday as a consumer. A variety of interactive and hands-on activities and methods will be used to help students analyze the major components of the marketing process and how they relate to real world examples. Topics to be covered include marketing planning and segmentation, buying behavior, bringing new products to market, developing distribution channels, exploring various advertising and promotional methods, and making effective product mix decisions. Students can also gain experience in the workforce by enrolling in the School to Career Program.

Digital Studio**Open to: 9-12****Semester course****Pre-Requisite – none****1017**

Students will develop skills in layout and design using a variety of software programs, Final Cut Pro Software, Pixlr Editor, and other Web 2.0 tools. Student will use tools, equipment, and processes to develop visual and graphic images that combine text and pictures. Project-based activities include publication layout-brochures, newsletters, graphic design and creation, calendar design, video design, and photography.

Yearbook**Open to: 9 – 12****Year course****Pre-Requisite – Instructor’s permission****1041**

This course will focus on working collaboratively to create quality yearbooks for both the high school and middle school that reflect positively on our school and represents the whole of the student body. Throughout the course students will build and apply journalism, photographic, and design skills when generating and editing yearbook content. Students will be expected to meet deadlines and produce high quality work as well as put in time outside of the classroom to photograph, interview, and assemble the necessary information for their assignments. Finally, students will be expected to set sales goal and participate in promoting the sales of both yearbooks and yearbook ads.

Career Readiness**Open to: 11-12****Year course****Co-Requisite – Work Experience****1015**

This course focuses on further developing essential business and computer skills students will need for both college and future careers. It will include how to become a successful learner and understanding the world of WEB 2.0 tools. Topics will include projects in Microsoft Office, Google, career and electronic portfolios, workplace ethics, resume writing, job interviewing strategies, developing effective teamwork and leadership skills, oral and written business communications, interpersonal skill development, and legal issues in the workplace. Students will attend career fairs, tour local businesses and other activities as they may come available. Students must maintain employment, either paid or unpaid, in order to sign up for this course.

Work Experience (School to Career Program)**Open to: 11-12****Year course****Pre-Requisite – Site arranged & paperwork submitted****1238****prior to beginning of school year. Good academic standing.****Co-Requisite – Enrolled in Career Readiness**

Students will be provided the opportunity to work during regular school hours at the beginning or end of the day. Students must be in good academic standing in their other courses, fill out weekly performance sheets, and meet a 180 minimum hour requirement during the semester. Student may be able to leave for up to two class periods per day. This can also be a volunteer position. Credits earned based on hours worked not to exceed 2.

Youth Apprenticeship Program (School to Career Program)

Open to: 11 – 12

Year course

Pre-Requisites – Approved Application

1239

This is a unique opportunity for juniors and/or seniors to start preparing for a career while in high school. Students are simultaneously enrolled in academic classes to meet high school graduation requirements, in a youth apprenticeship related instruction class, and are employed by a participating employer under the supervision of a skilled mentor.

Key Elements:

Industry-developed skill standards

Exposure to multiple aspects of the industry

Skilled mentors assigned to train the students

Paid on-the-job work experience and high school credit

Related classroom instruction concurrent with work-based learning

State-issued skill certificate

Programs offered at Westfield High School

Agriculture, Food, and Natural Resources

Architecture and Construction

Finance

Health Science

Information Technology

Manufacturing

STEM (Science, Technology, Engineering and Math)

Marketing

How do students get involved in this program? Interested students must apply through their school counselor and/or school-to career coordinator. Selection is based on career interest, skills, employability, attitude, attendance, credits, grades and recommendations. This program is competitive and subject to business and industry availability.

ENGLISH

English I

Required: 9

Year course

Pre-Requisite – none

0904

The objectives of this course are: 1) to develop students' understanding of sentence patterns, grammar usage and mechanics. 2) To improve students' paragraph writing skills. 3) To improve students' confidence in public speaking. 4) To develop students' reading and comprehension 5) to develop students' study skills and vocabulary through the study of the short story or novel. 6) Complete each stage of the research and writing process by presenting a research paper on Wisconsin. 7) Develop students' ability to formulate, express and support opinions connected with literary themes and devices.

Honors English 9

Open to: 9

Year course

Pre-Requisite – Earn at least a B- in high Level 8th Grade Reading 1002

Honors English 9 is the first in a sequence of four college-bound honors courses, including the opportunity for Advanced Placement courses in both junior and senior year. Honors students are challenged in every aspect of language arts: reading, writing, speaking, and listening. They are required to read and analyze a variety of literature, develop a higher level of thinking skills, expand their vocabulary, improve their grammar and use of language, learn to develop thesis writing skills and produce analytical essays. Since all language and reading requirements will consistently range beyond those in other ninth grade courses, strong motivation, independent study, and responsibility in meeting deadlines, and ability to read and digest challenging works are keys to success in this course.

English II

Required: 10

Year course

Pre-Requisite – English I

1003

Objectives: 1) Improve students' expression, organization and clarity of communication in written and oral forms. 2) Develop depth of understanding and interpretation of the novel genre of literature. 3) Reinforce the students' ability to compose and support a thesis. 4) Improve students' ability to formulate and express their opinions connected with literature they have read. 5) Improve student's ability to identify themes in literature and correlate them to an understanding of their own lives.

Honors English 10

Open to: 10

Year course

Pre-Requisite - Earn at least a B- in English I or Honors 9 1004

This course is devoted to students studying literature from various literary periods and is designed to prepare students for the accelerated coursework in Advanced Placement English: Literature and Composition. Students will engage in work specifically oriented toward the AP program and will incorporate enriching experiences in English Language Arts standards. The scope of this course will encompass selections in all genres along with extensive reading and writing opportunities. This course will provide strong preparation for upper level, college preparatory coursework and will build upon the previous Honors coursework.

English III

Open to 11 - 12

Year course

Pre-Requisite – English II

1103

The objectives to this course are: 1) Increase student's exposure to the drama genre of literature. 2) Allow students to explore an aspect of interest regarding genre of literature. 3) Improve student's expression, organization and clarity of analysis of a piece of literature in written form. 4) Develop depth of understanding and interpretation of the novel and drama genre of literature. 5) Improve student's ability to identify themes in literature and correlate them to an understanding of their own lives. 6) Improve student's ability to formulate and express their opinions

connected with literature they have read. 7) Continue to develop the depth, sophistication, clarity and structure of their analytical writing.

Pre-AP English Literature and Composition

Open to 11

Year course

Pre-Requisite – Earned a B- or higher in Honors English 10

1104

The Pre-AP English Literature and Composition course focuses on reading, analyzing and writing about imaginative literature (fiction, poetry, drama) from various periods. Students engage in close reading and critical analysis of imaginative literature to deepen their understanding of the ways writers use language to provide both meaning and pleasure. As they read, students consider a work's structure, style, and themes, as well as its use of figurative language, imagery, and symbolism. Writing assignments include expository, analytical, and argumentative essays that require students to analyze and interpret literary works.

Intro to College Writing

Open to 12

Semester course

Pre-Requisite – English III

1179

This course teaches basic principles of composition (including organization, development, unity, and coherence in paragraphs and multi-paragraph documents), various college study skills, grammar competence, writing style and critical thinking. Through multiple revisions and workshops, you will acquire writing process awareness, self-advocacy skills for understanding and managing assignments, and information literacy skills to prepare you for college writing.

College Reading Strategies

Open to 12

Semester course

Pre-Requisite – English III

1102

This course focuses on enhancing college reading and study techniques and offers you extended practice in applying these strategies to a variety of college level materials. Students taking this class should be capable of reading and comprehending reading assignments at the 12th grade level (Lexiles 900-1200+). Emphasis will be given to developing the critical thinking and reading skills necessary to be successful college readers. Reading topics covered will include identifying main ideas and supporting details, highlighting and annotating text, summary writing, and making inferences.

Public Speaking

Open 11-12

Year course

Pre-Requisite – None

1193

This course focuses on the skills involved with the selecting, organizing, researching and writing of informative and persuasive speeches. These skills will help students learn to effectively communicate their ideas using verbal, written and visual techniques. They will also learn important listening skills and undertake the process of self-evaluation by videotaping their speeches and analyzing their performance. Students will be expected to write and perform 5 speeches throughout the school year.

AP English

Open to: 12

Year course

Pre-Requisite – Successful completion of CP English III with a grade of at least a “B+” and Instructor permission.

1205

This advanced literature course will engage students in careful reading and analysis of a challenging set of literary works from a range of genres including novels, short stories, poetry, and dramas. The focus of this course will be on intensive reading and discussion of literature, as well as introducing secondary critical essays for discussion and evaluation. Emphasis will be placed on thoughtful and cogent analysis of the readings using a variety of theoretical frameworks and devices. At the conclusion of this course students are required to take part in the Advanced Placement exam in May.

Students who sign up for this course will be assigned one play or novel and accompanying study guides over the summer to be submitted on the first day of school. Failure to complete these summer assignments by the first day of school will result in a zero. Students **may not** drop this course over the summer, once school begins, or at semester unless by teacher request.

FOREIGN LANGUAGE

Spanish I

Open to: 9 – 12

Year course

Pre-Requisite – none

0921

This is the first year of the recommended foreign language program for students planning to enter a four-year college. This course is for students with very little or no prior knowledge of Spanish, that struggled in their exploratory Spanish classes, or that skipped a year or more between exploratory Spanish and Spanish 1. This course provides a basic foundation in the Spanish language and the geography and cultures of the Hispanic world. Students will learn to understand both written and spoken Spanish and to speak and write Spanish as well. The students will learn to communicate on basic everyday topics using the present tense.

Spanish II

Open to: 10 – 12

Year course

Pre-Requisite – Spanish I

1021

(“C” average in Spanish and/or consent of the instructor)

This is the second year of the recommended foreign language program for students planning to enter a four-year college. The course is a continuation of Spanish I with a great emphasis on both reading and writing, along with conversation. The student will broaden his/her grammar usage and vocabulary during this course. He/she will continue study of the present tense and will also study the progressive and past tenses. Through reading of stories, articles and poetry the student will also become more aware of the Hispanic cultures around the world.

Spanish III

Open to: 11 – 12

Year course

Pre-Requisite – Spanish II

1115

(“B” average in Spanish and/or consent of instructor)

This course will greatly improve student ability to use Spanish as a communication skill. This course will entail an extensive and continual review of the previous two years of study through conversational practice. There will be a greater emphasis on grammar structure, listening and speaking skills, and study of more advanced and in depth vocabulary. Students will study present and past tenses as well as the subjunctive and imperative moods. Through various readings, projects, and assorted resource materials, the student will broaden his/her knowledge of the Spanish language and develop an appreciation for Hispanic literature, culture, and history.

Spanish IV

Open to: 12

Year course

Pre-Requisite – Spanish III

1216

(“B” average in Spanish and/or consent of instructor)

This course continues where Spanish III ends. It includes a more detailed study of the tenses and moods from Spanish III (past, present, progressive, imperative, and subjunctive). There will also be a focus on future and conditional tenses and more literature. He/she will read various forms of Hispanic literature, including Don Quixote, one of Spain’s literary masterpieces. Students will study culture and history in greater depth and work on various independent and class projects related to topics of study, literature, history, and culture. Students have the option to earn 5 UW Credits (205 Intermediate Spanish)

- *It is recommended that students intending to continue beyond level 1 in a foreign language should not skip an entire school year between levels. If a student does skip a year between levels, he/she may only take the next level with the consent of the foreign language instructor.*
- *Foreign language courses are electives and are NOT required for admission to all four-year colleges. Currently only UW-Madison and UW-Eau Claire require foreign languages for entrance. Many schools however do require foreign language for graduation. Taking foreign language in high school, and taking a placement test when entering college could allow students to be exempt from taking foreign language courses in college. Only students who do well (B average or higher) should expect to pass college and university placement tests.*

Hispanic Literature

Open to: 12

Year course

Pre-Requisite – Spanish IV

0905

Learn more about Spanish language, history and culture through reading and discussing short stories and novels. Topics will include but are not limited to the Mexican Revolution and Magical Realism with the novel *Like Water for Chocolate* and the Spanish Civil War with the novel *Requiem por un Campesino Español*. Short stories by authors like Julio Cortázar, Luis Borges, Juan Rulfo, Gabriel García Márquez and others will also be read and discussed. The focus of this class will be on reading skills, but it will also include speaking, writing and film.

Spanish for Native Speakers

Open to: 7 – 12

Year course

Pre-Requisite – Native Spanish Speaker

1201

This course is open to all students 7-12 who speak Spanish at home with their family members. This course will focus on improving grammar, as well as proficiency in reading and writing.

HEALTH

*High School credit for Health is earned in 8th grade

FAMILY AND CONSUMER EDUCATION

Family Foods

Open to: 9 – 12

Semester course

Pre-Requisite – none

0924

Major emphasis is placed on how the family can provide for the nutritional needs of the family. Explores how food patterns are formed and how they change. Learning experiences include food preparation.

Career Foods

Open to: 9 – 12

Semester course

Pre-Requisite – Family Foods

0922

This course is an introduction to the food service industry. Students will explore career opportunities in the food service industry as well as practical experience in restaurant cookery. Emphasis is placed on hands-on experience in the various restaurant stations.

Baking and Pastry Arts

Open to: 10 – 12

Semester course

Pre-Requisite – Family Foods & Career Foods

1123

Students will explore the art of baking while developing pastry chef skills. Emphasis will be placed on demonstrating creativity with a variety of recipes and bakeshop ingredients. Students will be required to fully participate in catering events, which could include evenings.

Culinary Arts and Services

Open to: 10 – 12

Semester course

Pre-Requisite – Family Foods & Career Foods

1124

The purpose of this course is to expand the skills and knowledge in the area of culinary arts and related services. Emphasis is placed on food styling and presentation, catering, and the tourism industry. Students will explore career options and participate in practical experiences related to the food service industry.

Child Development I&T (Infant & Toddler)

Open to: 9 - 12

Semester course

Pre-Requisite – none

0923

Child development is one of the most fascinating subjects you can study. New research in brain development shows us the vital importance of early child development from birth through the first years of life. We will learn practical techniques to guide children through the areas of development including, physical, intellectual, language, and social and emotional. Learn how to communicate with children by instilling the eight positive discipline techniques. Explore career opportunities as early childhood professionals supervise assistant child care teachers, maintain state licensing requirements, and provide lead instruction within the classroom.

Assistant Child Care Teacher

Open to: 11 - 12

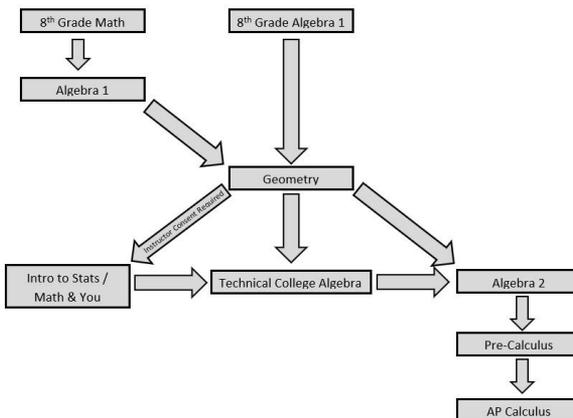
Semester course

Pre-Requisite – Child Development I&T or
Child Care & Development

1125

Increase your knowledge and skill in child development as you begin a career working with young children. Become a certified “Assistant Child Care Teacher” (ACCT) at age 17 by learning to provide quality childcare, earning CPR and First Aid Certification, and completing 10 hours of job shadowing at a community childcare facility. Earn Dual credit at Wisconsin Technical Colleges and in UW-Stout’s Early Education degree.

MATHEMATICS



Algebra I

Open to: 9

Year course

Pre-Requisite – none

0908

The general objectives are to strengthen students understanding of our number system structure; to develop the student's ability to reason logically, to give the student the tools necessary in other science courses. Generally, to give the student the mathematical background necessary in today's scientific world, whether college bound or otherwise. The content of the course includes basis set terminology, concept of factoring further work with fractions, equations and their relation to the graph and the study of rational and irrational numbers.

Algebra I Math Lab

Open to: 9

Year course

Pre-Requisite – Instructor consent

0949

Lab time to aid in the study of Algebra

Geometry

Open to: 9 - 12

Year course

Pre-Requisite – Algebra I

1007

Accelerated 8th grade students must obtain at least a B- in Algebra I to take Geometry at the 9th grade level.

To acquaint students with the aspects of geometric figures means of deductive thinking, and to use and strengthen algebraic skill to prepare the student for more advanced and interesting mathematical applications. Geometry studies the application of the basic geometric figures, such as triangles, quadrilaterals, other polygons, circles, plane figures and solid figures. Geometry makes use of deductive thinking by proving conclusions about the various geometric figures, and helps the advancement of students with their algebraic background with new and varied applications.

Geometry Math Lab

Open to: 10 - 12

Year course

Pre-Requisite – Instructor consent

1008

Lab time to aid in the study of Geometry

Geometry Fundamentals

Open to: 10-12

Year course

Pre-Requisites: Algebra I w/Instructor Consent

1010

To acquaint students with the aspects of geometric figures and to use and strengthen algebraic skill to prepare the student for more advanced and interesting mathematical applications. Geometry studies the application of the basic geometric figures, such as triangles, quadrilaterals, other polygons, circles, plane figures and solid figures. Geometry helps the advancement of students with their algebraic background with new and varied applications.

Algebra II

Open to: 10- 12

Year course

Pre-Requisite–Geometry C+ or higher or Instructor Consent **1106**

This subject deals with the advancing of the knowledge gained in Algebra I and Geometry. Many new applications of mathematics are learned. Algebra II builds the groundwork for the senior mathematics, namely trigonometry and analytic geometry. Algebra II helps the student perceive the role of deductive reasoning in Algebra and Trigonometry. The contents of this course include detailed study of equations and their relation to their graphs, review of polynomials and factoring, detailed study of rational and irrational numbers and equations, introduction of trigonometry and an introduction to matrices and determinants as a means to solving equations. There will also be a review for the ACT Test.

Math & You

Open 11-12

Semester course

Pre-Requisite – Instructor Consent

1009

This class is designed to connect Math to your everyday life. A focus on workplace and career connections to Math will be studied. Topics will include: Calculation, Consumption, Logic & The Media, Inflation & Depreciation, Taxation, Borrowing & Saving, Patterns & Nature, Likelihood, Description, and Fitness & Sports. Students must understand that this is only a one-semester class worth ½ credit, so they will need to enroll in “Statistics” to complete their third credit of Math. Students that possess high proficiency in Math may be declined if this course is not deemed appropriate for their skill level.

Statistics

Open to: 11-12

Semester course

Pre-Requisite – Instructor consent

1107

This class is an introductory course on Statistics and is meant to be taken as a possible third-year Math option after Algebra and Geometry. Topics will include: Measures of Central Tendency, Measures of Variation, Data Displays, Sampling and Experimentation Techniques, Probability, and Data Analysis. Students must understand that this is only a one-semester class worth ½ credit, so they will need to enroll in “Math & You” to complete their third credit of Math. Students that possess high proficiency in Math may be declined if this course is not deemed appropriate for their skill level.

Technical College Algebra

Open to: 11-12

Year course

Pre-Requisite – Geometry

1032

This class is a dual credit class through Madison College. It is called “Elementary Algebra with Applications” at the college. Successful completion of the course will earn students credit through MATC. It will cover the advanced study of Algebra. Topics will include: Performing basic operations with real numbers, solving linear equations, using formulas to solve problems, using the rules of exponents, performing operations with polynomials, factoring

methods, performing basic operations with rational expressions, solving rational equations, graphing algebraic equations, solving systems of equations, performing basic operations with roots and radicals, and solving quadratic equations.

Pre-Calculus

Open to – 11 –12

Year course

Pre-Requisite – Algebra II

1207

This is a study of trigonometry and analytic geometry. Trigonometry is the study of triangles in all forms, the use of logarithms, and the application of these ideas toward practical problems. Analytic geometry is the reapplying of geometric concepts through the use of advanced algebra. This course is the final step for a good background in mathematics and its scientific application for college. It is recommended for persons planning to take college mathematics, physics, or chemistry.

AP Calculus

Open to: 12

Year course

Pre-Requisite – Pre-Calculus

1206

Students will learn the three major Calculus concepts and their applications: Limits and Continuity, Differentiation, and Integration. Throughout the course, students will be responsible for completing homework and in-class activities for 20 percent of their grade. Assessments such as quizzes, tests, and projects will count for 80 percent of their grade. Students will solve a variety of multiple-choice and free-response questions over limits, derivatives, and integrals from past AP exams. They will justify their answers using calculus-based concepts and present their reasoning orally at the board several times throughout the school year. Students who sign up for this class will be required to take the AP® Calculus AB Exam.

MUSIC

Band

Open to: 9 – 12

Year course

Pre-Requisite – Is open to all incoming students who have successfully completed the Middle School Band program, and the recommendation of that director.

0918

Band will provide social and aesthetic experiences that will benefit the student's insight into life values, group participation, personal growth, and creative self-expression. Band gives students a wholesome recreation and means of pleasure during high school, and throughout their life.

Concert Choir

Open to: 9-12 through audition

Year course

Pre-Requisite: 9th graders must have the endorsement of the 1023

Middle School Choir Director. New 10 – 12th graders: Audition and interview with the high school Choir Director.

Concert choir is a group of students who are dedicated to developing advanced musical skills and understanding through group singing. Music from different styles and cultures will be studied and instruction will be directed toward the state and national music performance standards. Performance opportunities include December, March, and May Concerts, Solo and Ensemble, Large Group Festival, consideration for honors choir festivals and chamber choir.

Independent Study Music Theory

Open to: 11 & 12 Music Student

Year course

Pre-Requisite: Permission from high school Choir Director 1224

This course will be a college preparation course or an advanced level theory class for highly self-motivated and curious musicians. Bruce Benward's Practical Music Theory text will be used. This course is highly recommended for any student considering any post high school music study.

Independent Study Music Appreciation and Basic History

Open to: 11 & 12

Year course

Pre-Requisite: Permission from the high school choir director 1226

Many times students attending Universities are required to take humanities credits as general degree classes. This course would be an excellent introduction to the basics of music and an overview of the style periods of music history. It is also an excellent course for music students considering a career in music.

PHYSICAL EDUCATION

Physical Education 9/10

Open to: 9 - 10

Semester course

Pre-Requisite – none 1001

This course is a one-semester course in which emphasis is placed on physical fitness and exploratory experiences in a variety of activities: football, soccer, volleyball, basketball, weight training, softball, hockey, badminton, pickle ball, golf, bowling, disc games, and snow shoeing.

Physical Education 11 & 12

Open to: 11 -12

Semester course

Pre-Requisite – Must pass Physical Education 9/10 1100

The physical education units from Physical Education 9/10 will be repeated with more focus on game play and strategy. These courses will be offered in a variety of combinations with an elective format.

Pioneer Strong**Open to: 9 – 12****Semester course****Pre-Requisite – none****1200**

Pioneer Power is for students who are advanced in physical fitness. This class is highly recommended for student athletes who want to increase their athletic performance. Students will go through four phases of training, each focusing on a different aspect of performance. This course is for students who want to establish athletic gains as well as for students who want to create a lifetime of being physically fit. Students will learn how to work out effectively and appropriately.

Pioneer Strong-Block**Open to: 9-12****Semester course****Pre-Requisite – 1 Semester of Pioneer Strong****1198**

The intent of this course is to create an environment where we as a class make physical activity enjoyable for each and every student. Students will learn and practice skills necessary to live and promote an active, healthy lifestyle. Students will be exposed to various techniques to make their mind and bodies stronger through physical activity. This is highly recommended for ALL high school athletes. This is a block class that is intended for first and second hour so that students can extend their workout time and also can work on muscle recovery techniques.

Personal Health and Wellness**Open to: 11 – 12****Semester course****Pre-Requisite – None****1199**

A contemporary examination of the effects of lifestyle, wellness, and health promotion on the individual. Instruction in procedures for self-evaluation as well as an individualized exercise program for the development of health fitness. Participation in a planned program of aerobic activity is required. This is a dual credit course and meets the 3 unit (cr.) physical education requirement for most colleges and universities. *A small fee is required.

Essential Aspects of Coaching Basketball and Leadership**Open to: 11 – 12****Semester course****Pre-Requisite – None****1180**

Students will learn about successful basketball coaching through a person-first/team-first perspective. This class will help students enhance leadership skills to enable as well as build a basketball IQ to help themselves be future basketball coaches. Videos and readings embedded into the curriculum of this course will help develop the essential skills needed for coaching and leading a team. This course is for all students who want to grow both as a coach and a leader. The unique set-up of this class will help current students grow and aspiring to be head coaches with blueprint for success both in games and in community relationships. This is a dual credit course and will earn 1 college credit. *A small fee is required.

DRIVERS EDUCATION

Driver & Traffic Safety

Open to: 9 – 12

Pre-Requisite – none

Semester course

1024

Traffic crashes are the number one reason teenagers lose their lives – this course is a MUST! Save yourself the 22 expensive trips to Portage or Wautoma to take the class elsewhere when you can take the class right here at school. We focus on the mental part of driving, including the actions before starting your car and how to prepare for defensive driving. In order to receive a driver's license before the age of 18, students must have successfully completed Drivers Ed. The classroom instruction is made up of guest speakers, videos, field trips, and group discussion. Students need a minimum of 30 hours of classroom time to pass. Subjects covered include: factors and influences that affect your driving; social and legal responsibilities of the driver, natural forces that influence driving; traffic laws and driver maneuvers, buying, operating, insuring and maintaining your car.

The course consists of an **optional** behind the wheel portion, which has 6 hours on-street vehicle instruction and 6 hours observation time in the vehicle. There will be a monetary cost to this and will require attendance on 6 Weekend days for 2 hours. If you take this option, you can receive your "learners permit" during the first month of class. This is important because the State of Wisconsin requires you to hold onto a learner's permit for a minimum of 6 months before taking your final road test.

SCIENCE

Freshman Physics

Open to: 9

Pre-Requisite – none

(All 9th Grade Students are required to take Freshman Physics)

This class introduces basic factors of physics to 9th grade students. Class discussion and related laboratory experiments and demonstrations will help the student gain a practical understanding and appreciation of these advanced forms of science, and aid in his understanding of science in everyday life.

Semester course

0906

Freshman Chemistry

Open to: 9

Pre-Requisite – none

(All 9th Grade Students are required to take Freshman Physics)

This class introduces basic factors of Chemistry to 9th grade students. Class discussion and related laboratory experiments and demonstrations will help the student to gain a working understanding of the world of Chemistry and will prepare students for the study of Chemistry later in high school.

Semester course

0907

Biology

Open to: 9-12

Year course

(9th grade with 8th grade instructor recommendation)

1005

Pre-Requisite – Freshman Physics & Chemistry

The intent of Biology is to investigate living things at a molecular, cellular, organismal, and macrobiological level. This course has been aligned to meet the recommended ACT core curriculum content objectives. Biology is a rigorous course designed to prepare students for future opportunities in science as well as important tests such as the ACT. Biology students will be required to do out of class reading, take notes, conduct labs, write lab reports, create projects, take quizzes, complete unit exams, and engage in online activities.

Chemistry

Open to: 10 – 12

Year course

Pre-Requisite – Grade of “C” or better in Algebra I.

1105

Concurrent enrollment in Algebra II is recommended.

Students will examine basic atomic and bonding theories, classes of compounds, patterns in the periodic table and their underlying origins, gas laws, chemical reactions, and the importance of chemistry in everyday life. Student run labs and experiments are performed to illustrate patterns and concepts, and to strengthen prior knowledge of the material. Emphasis is placed on critical thinking and problem solving. This class should be taken by anyone planning on attending a four year college or vocational school.

Physics

Open to: 11 (with consent of instructor) & 12

Year course

Pre-Requisite – Geometry

1126

Physics is the study of the physical world considered as a whole. Although it is subdivided for convenience into branches such as mechanics, properties of matter, sound, heat, light, electricity, magnetism and nuclear physics, these subdivisions do not exist separately. This is because of the interrelations of the concepts involved. Thus these subdivisions are not and cannot be sharply defined. The language of physics is to a certain extent the language of mathematics. This is because mathematics affords analytical and symbolical methods of making logical deductions from fundamental postulates. Such postulates, under the name of natural laws, form the fundamental building blocks upon which the whole science of physics can be built in a logical manner.

Anatomy & Physiology

Open to: 11 – 12

Year course

Pre-Requisites – Biology (Minimum of a “C” average).

1209

Chemistry – successful completion or concurrent enrollment.

Due to the high demand of nurses, EMT's and other medical technicians, this course is essential for anyone thinking about a career that involves the human body or anyone interested in learning more about themselves. The course is designed to highlight the major systems of the body and at the same time, teaching valuable tools that are critical in the medical field, such as medical terminology. Required Laboratory observations include dissection of the domestic cat, dissection of various

organs and histology will be used to strengthen student understanding of course topics. Themes covered: Major Body Systems, Medical Terminology, and Human Diseases. Valuable terminology used throughout the biological sciences will be emphasized.

Environmental Science

Year course

Open to: 11-12

1108

Pre-Requisite: Students must have completed one full year of Biology.

Grade Requirements: In addition, students must have achieved an overall minimum grade of a C or higher in Biology.

This is a year-long course, in which classes meet for a 44 minute period each day during a 5-day school week. Environmental science is an interdisciplinary course that integrates information from the natural sciences and the social sciences so that students have the tools necessary to analyze and study the relationship between organisms and the environment. The rationale for Environment Science education is to provide a setting that introduces the challenges that our society faces. The overall goal is to prepare students to be leaders and develop appropriate decision making skills that help move our nation towards a more sustainable future. Major themes that are interwoven into the course include the following: Science as a process, Energy conversions and the cycling of matter, Earth as one interconnected system, Humans alter natural systems, Environmental problems having a cultural and social context, and Human survival and dependence on developing practices that will achieve sustainable systems.

AP Chemistry Block Schedule

2 Credits

Year course

Open to: 11 – 12

1109

Pre-Requisite – Chemistry (Minimum of a “C” average.

Concurrent enrollment in Pre-Calculus or Calculus is recommended.

The AP Chemistry course is designed to be the equivalent of the general chemistry course usually taken during the first college year. For some students this course enables them to undertake, as freshmen, second-year work in the chemistry sequence at their institution or to register in courses in other fields where general chemistry is a prerequisite. For others the AP Chemistry course fulfills the laboratory science requirement and frees time for other courses. Topics included the structure of matter, kinetic theory of matter, chemical equilibria, chemical kinetics and thermodynamics. Emphasis is on problem solving on paper and in the laboratory.

Special Note: This course moves quickly, requires nightly homework, and time outside of the scheduled class to complete labs and ask questions. Students that sign-up for this course are required to commit to the course for the full school year. Students are required to take the AP Chemistry exam at the end of the course.

SOCIAL STUDIES

U.S. History

Required: 9

Year course

Pre-Requisite – none

0903

This course will examine the role played by individuals, groups, and the events from reconstruction to the present. Major emphasis is placed on Industrialization, World

War I, World War II, Civil Rights, Vietnam War, and America's role in the world today. The cause and effect relationship of major events in our history will be emphasized along with continual integration of current events.

World History

Required: 10

Semester course

Pre-Requisite – U.S. History

1036

This introductory course studies the rise of civilizations including primitive man, early Israelites, ancient Greece and Rome, and the beginning of early Christianity. Also included is a study of medieval Europe and the Crusades. We will examine the social, political, and economic development of these ancient societies.

American Government

Required: 10

Semester course

Pre-Requisite – U.S. History

1035

In the course of American Government, we study the structure of the national, state, county, and local governments. We also study the Constitution, the Bill of Rights, the three branches of government; the Legislative, Executive, and Judicial; and the independent government agencies. Whenever possible, current events in the news of the four levels of government are used so the student can see the important relationships between the public and the government. For example, we study our role in citizenship and suffrage; our political party system, nomination and elections; and the role of public opinion and special interests.

AP U.S. History

Open to: 11-12

Year course

Prerequisite - Total of 2 credits of Social Science and 3.0 GPA or consent of instructor

1202

The objective of this course is to increase the student's understanding of United States history from discovery to the present. The course is divided into two semesters, Founding the New Nation through the Gilded Age and Forging an Industrial Society to the present. The areas of concentration include historical, political and economic history coupled with an intense study of cultural and intellectual institutions and their development. At the conclusion of the course students are required to take the Advanced Placement exam.

Financial Success! Required Course for all students

Open to: 11 – 12

Semester course

Pre-Requisite: None

1208

With personal bankruptcies on the rise, credit card debt ballooning, and more people trying to scam you out of your money, it's even more important for you to have Financial literacy. It's not just money. Financial Success! is the study of choice. It is about people and how they choose to use limited resources in an effort to satisfy their unlimited needs and desires. The relationships between people and nations are more likely today to revolve around economic matters than anything else. With bills, scammers, and credit cards all coming after our limited money, we spend much of our time learning how to be financially fit. The financial success unit includes the popular **Stock market game, Lifesmarts, and budget challenge.**

AP Economics

Open to: 11 & 12

Year course

Pre-Requisite – (Total of 2 credits of Social Science) & 3.0 GPA 1203

In this course students will be given the opportunity to earn college credit through the Advanced Placement Program. There will be an in depth study of Microeconomics. Content will be similar to what you would expect in a college course. In May, students are required to take the Advanced Placement exam for Microeconomics for a nominal fee. Economics is the study of choice, and how people and business choose to use limited resources in an effort to satisfy their unlimited wants and desires. A financial success unit will be included to comply with the state of Wisconsin requirement to teach financial literacy and insure exposure to important everyday financial fitness. This will include the stock market, Lifesmarts, and the budget challenge.

Psychology

Open to: 11 – 12

Semester course

Pre-Requisite: 1135

This introductory course is an overall look at the subject of psychology. It is a survey of the multiple aspects of human behavior and the mind. These include Learning, Motivation, Emotions, Personality, Deviance and Pathology, Physiological factors and Social Influences. This course will direct the student to an insightful understanding of the complexities of human relationships in personal, social and vocational settings. Class expectations: Multiple experiments, discussions, essay writing, class projects and activities, and readings as assigned.

Sociology

Open to 11 –12

Semester course

Pre-Requisite: None 1134

This course will help students to become familiar with the basic concepts, theories, and practices of human society. Students will gain a better understanding of human behaviors, which we observe in our daily lives. This course is recommended for those planning to pursue careers in such fields as medicine, business, education, police science, government or social work. Class expectations: discussions, essay writing, class projects and activities, and readings as assigned.

Street Law I

Open to: 11 – 12

Semester course

Pre-Requisite: World History & American Govt 1212

The goals of Street Law focus on developing in students, the knowledge and skills necessary to live in our law-saturated society. Student involvement is emphasized through the use of problems, case studies, role-plays, cooperative learning activities, simulations, research using the Internet, and a variety of other activities. Activities will be designed to provide students with the ability to analyze, evaluate, and in some situations, resolve legal disputes.

Street Law II**Open to : 11-12****Semester course****Pre-Requisite: Street Law I****1133**

Street Law II will pick up where Street Law I left off. We will cover the criminal justice process (trials, sentencing, corrections), tort law, family law, and individual rights and liberties.

TECHNOLOGY EDUCATION

Graphic Design**Open to: 9 – 12****Semester course****Pre-Requisite – None****0915**

This semester course will cover the area of graphic communications. Students will identify how to correctly carry an idea from conception to final product utilizing graphic layout techniques and processes. Activities included in this course are as follows: Screen printing process, computer graphic design and layout, (Adobe Illustrator, Adobe Photo Shop), Variety of digital camera use and techniques, scanning, page layout and assembly and binding techniques. All activities are presented as self-contained learning activities.

Materials and Processes I**Open to: 9 – 12****Semester course****Pre-Requisite – none****0909**

This is a hands-on course that exposes students to the processes of woods. Students will be assigned numerous activities in wood processing methods and production processes. Emphasis is placed on gaining experience in a wide variety of applications and developing skill in each. Safety glasses and tape measure required.

Materials and Processes II**Open to: 9-12****Semester course****Pre-Requisite – none****0910**

This is a hands-on course that exposes students to the processes of metals manufacturing. Students will be assigned numerous activities in metal fabrication, sheet metal work and foundry activities. Emphasis is placed on gaining experience in a wide variety of applications and developing skill in each. Safety glasses and tape measure required.

Building Science**Open to: 9 – 12****Semester course****Pre-Requisite – none****0912**

This is a hands-on course emphasizing the rules and practices of residential/civil construction. Students will design/construct scale model houses demonstrating the skills of the construction industry. Students will also design/construct model bridges and learn how stadiums, skyscrapers, and other large buildings are constructed. When projects become available, students will construct/remodel real-life projects. Safety glasses and tape measure required.

Small Engines**Open to: 10 – 12****Semester course****Pre-Requisite – none****1028**

This course is for students who are always asking the question, how does this work? What makes it run? In this course you will be able to tear down and rebuild a 4-cycle small engine. You will be running your engine at the start and be able to have it run again after assembly. This course is lab centered and is VERY hands on.

Welding**Open to: 10 – 12****Semester course****Pre-Requisite – none****1118**

This course provides the exploration, study, and hand-on applications of metal working and joining. Students will study welding-related occupations, as well. Textbook studies are reinforced with hands-on activities, use of hand tools, shop machines, Oxy-Acetylene welding, Arc welding, and other activities. Activities are conducted in a teamwork environment. Safety practices are a top priority and will be followed at all times.

Home Maintenance**Open to: 10 – 12****Semester course****Pre-Requisite – None****1022**

This course is designed to give students the fundamentals to be able to complete simple repairs/maintenance around the house. Units will include: Basic Wiring, Basic Plumbing, Roof Repair, Drywall Repair and simple concrete applications.

Advanced Building & Trades**Open to: 11– 12****Year course****Pre-Requisite – Building Science****1117**

This is a three-period hands-on course emphasizing the construction rules and practices of residential/civil construction. In this course students participate in the construction of structures and other construction related projects. Students will learn how to properly plan, design, estimate, and implement building projects. Projects included in this course range from the building of small projects including deer stands and duck blinds, small structures like garages, up to building a full size house with Habitat for Humanity.

Project Lead the Way

Introduction to Engineering Design (IED)**Open to: 9 –12****Year course****Pre-Requisite – none****1122**

IED is one of the foundation courses in our new Project Lead the Way© “Pathway to Engineering” course sequence. In this class, you will learn how to design and create like never before. You will be using “AutoDesk Inventor,” a state-of-the-art 3D design software. You will be taking on the role of an engineer in taking an idea from the design process to product testing to manufacturing. During this course, you will

have the opportunity to build working prototypes on an incredible 3D printer! You will work on projects, activities, and problems not only of interest to you, but that have global and human impacts. You will be working in teams to design and improve products, document your solutions, and communicate them with others. Topics of study include: The Role of the Engineer; The Design Process; Technical Sketching and Drawing; Measurement and Statistics; Geometric Shapes and Solids; Dimensions and Tolerances; 3D Modeling Skills; Reverse Engineering; Structural Analysis; Product Improvement; Design Teams.

Computer Integrated Manufacturing

Open 10-12

Year course

Pre-Requisite – Introduction to Engineering Design

0913

Computer Integrated Manufacturing is one of the specialization courses in the Project Lead the Way engineering program. The course deepens the skills and knowledge of an engineering student. Students building upon their Computer Aided Design (CAD) experience through the use of Computer Aided Manufacturing (CAM) software. CAM transforms a digital design into a program that a Computer Numerical Controlled (CNC) mill uses to transform a block of raw material into a product designed by the student! Students also learn about robotics, using Automated Guided Vehicles, and incorporating the use of robotic arms.

Manufactured items are part of everyday life, yet most students have not been introduced to the high-tech, innovative nature of modern manufacturing. This course illuminates the opportunities related to understanding manufacturing. At the same time, it teaches students about manufacturing processes, product design, robotics, and automation. Students can earn a virtual manufacturing badge recognized by the National Manufacturing Badge system.

This course is for students that are interested in robotics, engineering, CNC machines, and manufacturing.

Principles of Engineering (POE)

Open to: 10 – 12

Year course

Pre-Requisite – Intro to Engineering & Design

1116

POE is one of the foundation courses in our new *Project Lead the Way*® “Pathway to Engineering” course sequence. This survey course exposes students to the major concepts they will encounter in a post-secondary engineering course of study. The course applies and concurrently develops secondary level knowledge and skills in mathematics, science, and technology.

The *Project Lead the Way*® curriculum, including Principles of Engineering, focuses on making math and science relevant for students. The approach used is called APPB-learning (activities, projects, and problem-based learning). By engaging in hands-on, real-world projects, students understand how the material covered in class can be applied in their everyday lives. Learning activities will include teacher-led instruction, cooperative learning, and project-based.

Students will employ engineering and scientific concepts in the solution of engineering design problems. Students will develop problem-solving skills and apply their knowledge of research and design to create solutions to various challenges. Students will also learn how to document their work and communicate their solutions to their peers and members of the professional community.

Engineering is a profession that contributes to change and improvements in our world. It creates imaginative and visionary solutions to the challenges of the 21st century – the problems of feeding the world, how we will use energy and continue to protect our environment. Engineering and technology play a vital role in the quality of everyday life and wealth creation. Appropriate attitudes relative to the professional social obligations of the engineer, and the relationships between math, science, technology and society need to be learned. Real world, open-ended engineering problems that cover a wide range of content will be presented.

YOUTH TO YOUTH

Open to: 11-12

Semester course

Pre-Requisite – Minimum of 3.4 GPA and Consent of Counselor 1274

Students in this course will be paired with middle and high school students in a one-on-one or small-group setting to provide tutoring and other academic support.

DISTANCE LEARNING

Open to: 11 – 12

Pre-Requisite – Attendance records, grades and the ability to work as an independent learner will be considered before students are admitted to distance learning courses.

Instructors and students see and hear one another in real time using interactive video conferencing. Course programming for participating K-12 school districts and higher education partners is a collaborative effort. K-12 courses shared between members are at no cost. ***Tuition based courses add to the diversity of offerings in two ways:*** providing college courses to high school students; filling gaps in courses needed with the consortium hiring additional K12 teachers.

Tuition for College and Technical School Credits is covered by the school district if your student completes the course. These credits count towards Westfield Area High School graduation requirements, and in some cases dual credit with technical college or university are also earned. The instructor at the host site determines the criteria for the course and the grades.

Since curriculum offerings change each spring and fall semester an accurate listing of courses cannot be placed in this handbook. A separate listing (guide) has been prepared and is available from the counselors. It should be noted that since each school has a different schedule, **students are responsible to be in attendance when the host site is in session.** This may require students to add a study hall to their schedule to attend classes that do not align to our bell schedule.

SCHOOL TO CAREER PROGRAM

Work Experience

Open to: 11-12

Year course

Pre-Requisite – Site arranged & paperwork submitted prior to beginning of school year. Good academic standing.

1238

Co-Requisite – Enrolled in Career Readiness

Students will be provided the opportunity to work during regular school hours at the beginning or end of the day. Students must be in good academic standing in their other courses, fill out weekly performance sheets, and meet a 180 minimum hour requirement during the semester. Student may be able to leave for up to two class periods per day. This can also be a volunteer position. Credits earned based on hours worked not to exceed 2.

Youth Apprenticeship Program

Open to: 11 – 12

Year course

Pre-Requisites – Approved Application

1239

This is a unique opportunity for juniors and/or seniors to start preparing for a career while in high school. Students are simultaneously enrolled in academic classes to meet high school graduation requirements, in a youth apprenticeship related instruction class, and are employed by a participating employer under the supervision of a skilled mentor.

Key Elements:

Industry-developed skill standards

Exposure to multiple aspects of the industry

Skilled mentors assigned to train the students

Paid on-the-job work experience and high school credit

Related classroom instruction concurrent with work-based learning

State-issued skill certificate

Programs offered at Westfield High School

Agriculture, Food, and Natural Resources

Architecture and Construction

Finance

Health Science

Information Technology

Manufacturing

STEM (Science, Technology, Engineering and Math)

Marketing

How do students get involved in this program? Interested students must apply through their school counselor and/or school-to career coordinator. Selection is based on career interest, skills, employability, attitude, attendance, credits, grades and recommendations. This program is competitive and subject to business and industry availability.