

2020-2021

Registration & Course Guide

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Markesan District Schools has established policies so that no person is excluded from participation in, deprived from benefits of, or subjected to discrimination under any school district directed program (employment or instructional) on the basis of sex, race, national origin, ancestry, creed, pregnancy, marital, emotional or learning disability.

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Dear Student and Parents/Guardians,

As you prepare to register for classes for the 2019-2020 school year, you should use this planning guide to review past courses and future interests. Consider how courses that you will take next year fit into your overall goals. If you need further assistance, please contact your advisor or me.

Sincerely,
 Brian Cahoon, Counselor
 (920) 398-4107

	<u>MHS Requirements</u>
Subject	<ul style="list-style-type: none"> ▪ 26 Credits ▪ Successful completion of the following courses:
English	4 credits
Social Studies	3 credits including: <ul style="list-style-type: none"> ▪ U.S. History ▪ Global Studies ▪ Civics Requirements
Science	3 credits* including: <ul style="list-style-type: none"> ▪ Biology (1)
Math	3 credits
Physical Education	1.5 credits
Health	.5 credit (8th grade)
Computer Course	.5 credit
Finance Course	.5 credit including one of the following: <ul style="list-style-type: none"> ▪ Consumer Math ▪ Personal Finance ▪ Economics
Electives	10 credits
Total Credits	26 Credits

	<u>Entrance Requirements for Most UW Schools*</u>
Subject	<ul style="list-style-type: none"> ▪ Successful completion of the following courses:
English	4 credits
Social Studies	3 credits
Science	3 credits
Math	3 credits including: <ul style="list-style-type: none"> ▪ Algebra ▪ Geometry ▪ Advanced Algebra
World Languages	Recommended: 2 years of the same foreign language

*Admission requirements should be verified with the specific school of choice.

MHS FOUR YEAR PLANNING GUIDE

Grade 9			
Semester 1		Semester 2	
Com 1A	.5	Com 1B	.5
US History A	.5	US History B	.5
Math:	.5	Math:	.5
Science	.5	Science	.5
PE/Elective:		PE/Elective:	
Elective:		Elective:	
Elective:		Elective:	
Grade 10			
Semester 1		Semester 2	
Com 2A	.5	Com 2B	.5
Global Studies A	.5	Global Studies B	.5
Math:	.5	Math:	.5
Science	.5	Science	.5
PE/Elective:		PE/Elective:	
Elective:		Elective:	
Elective:		Elective:	
Grade 11			
Semester 1		Semester 2	
English:	.5	English:	.5
Social Studies:	.5	Social Studies:	.5
Math:	.5	Math:	.5
Science:	.5	Science:	.5
PE/Elective:		PE/Elective:	
Elective:		Elective:	
Elective:		Elective:	
Elective:		Elective:	
Grade 12			
Semester 1		Semester 2	
English:	.5	English:	.5
Elective:		Elective:	
Required Computer Course: _____ <div style="display: flex; justify-content: space-around; width: 100%;"> Title Anticipated Semester </div> Required Finance Course: _____ <div style="display: flex; justify-content: space-around; width: 100%;"> Title Anticipated Semester </div>			

Information You Need to Know When Planning Your Education.....

Credit Requirements

To graduate from Markesan High School, a student must have earned 26 units of credit. Each student in grades 9-12 will register and complete a program of at least 7 credits required per year.

Youth Options

The Youth Options Program allows juniors and seniors in good academic standing to attend post-secondary schools to take courses beyond those offered at the high school. To register for courses students must:

- Have a 3.0 GPA or higher
- Have good attendance and behavior
- Take courses that are not offered at MHS
- Maintain a C in all courses for both schools

All textbooks paid for by MHS will be returned to the high school for future use upon course completion/drop. Students who receive a failing grade (at the college level) or who fail to complete a course for which the school board has made payment must reimburse the school. The student would be ineligible to continue to participate in Youth Options until reimbursement has occurred.

While progress in these courses will be reported during the semester, a grade will not be issued until the course is completed.

Transcribed Credit Courses

These courses are accepted at both high school and technical college level. They are marked

with the Moraine Park Technical College (MPTC) logo  or Madison Area Technical College (MATC) logo. 

In School - Online Courses

These courses are assigned in the student's schedule and are completed on line through an account set up with MPTC, UW-Extension, or Wisconsin Virtual Learning. While progress in these courses will be reported during the semester, a grade will not be issued until the course is completed.

Advanced Placement Courses

The Advanced Placement (AP) program allows students to enroll in college-level courses that provide students with preparation for the AP exam. Students may receive credit, advanced placement, or both at most colleges and universities. The amount of credit may vary and is dependent on the college, AP exam score, and the subject. Students may also move into a higher level class in college as freshman. This could translate into time saved, and may result in financial savings for credit earned while in high school.

AP exams are taken in May. Students receive their grade report in July. Students do have to pay for the exam (approximately \$87 per exam).

Agriculture

Introduction to Agri-Science
Small Animal & Veterinary Science
Natural Resources
Ag Technology

Large Animal Science
Horticulture & Plant Science
Ag Leadership
Landscaping

Introduction to Agri- Science A & B

9 10 11 12

.5 per semester

Prerequisites: None

Students will explore all aspects of agriculture including biotechnology, animal science, crop science, horticulture, food science, business, FFA and natural resources and conservation, with hundreds of careers to explore.

Essential Assessments:

- All exams
- Final SAE Project

Why this course is important: This class gives an overall look at the exciting world of agriculture. Agriculture alone provides almost 420,000 jobs or 12% of the workforce in Wisconsin (Wisconsin Farm Bureau). In Green Lake County, agriculture provides jobs for 14% of the workforce (UW-Extension). The careers in agriculture are diverse. This class covers each of the career clusters and the jobs that are involved. Students explore careers in natural resources, plant systems, food products and processing, power, structural and technical systems, environmental systems, animal systems and agribusiness systems.

Large Animal Science A&B

9 10 11 12

.5 per semester

Prerequisites: None

Students will study units of environment, safety, behavior, waste management, reproduction, anatomy of animals, breed identification, and feed and nutrition as they relate to large animal science. This class also explores all types of livestock, including dairy cattle, beef cattle, swine, sheep, horses, goats and poultry. Guest speakers are an important part of this class, along with field trips and daily activities.

Essential Assessments:

- All exams and quizzes

Why this course is important: As more and more of the population is moving away from production agriculture, fewer and fewer people actually understand its importance and how food gets from the farm to the grocery store. This class discusses all aspects of animal production and goes in depth with each livestock animal to give the student a comprehensive look at all animals that can be raised for the benefit of all people. This class would assist the student interested in veterinary, vet tech, or other biological careers.

Small Animal & Veterinary Science A&B



9 10 11 12

.5 per semester

Prerequisites: None

Students have the chance to earn 4 transcribed credits from Madison Area Technical College through this class. Students will receive training in veterinary medical terminology, animal health and observation, hygiene in the laboratory, communication and record keeping and the laboratory science industry.

If you are looking for a hands-on class that discovers the exciting world of small animals and veterinary science, then this is the class you need. Other units covered in this class include: animal handling, safety, animal rights and welfare, nutrition and digestive systems, and the care and maintenance of small animals.

Essential Assessments:

- All tests and quizzes
- Veterinarian Portfolio
- In Class Debate

Why this course is important: The small animal and veterinary science industry is expected to grow 19 percent over the 2006-16 decade, faster than the average for all occupations. The companion pet population, which drives employment of animal caretakers is expected to increase. This class will prepare students for a career in this industry so they will be prepared for the upcoming demands of the area.

Horticulture & Plant Science A&B

9 10 11 12

.5 per semester

Prerequisites: None

Students will now be able to earn science credit for this class. For those students who are college bound, it will also count as a third science credit at many UW schools. This class involves units that include: exploration of the horticulture industry, plant anatomy and physiology, plant propagation, growing media, nutrients, and fertilizers, integrated pest management, hydroponics, greenhouse structures, greenhouse crop production, floral design, interior plantscaping, and fruit/vegetable crop production.

Essential Assessments:

- All tests and quizzes
- Projects

Why this course is important: The production of landscape trees and plants as well as landscape and grounds maintenance is a rapidly growing segment of Green Lake County's agriculture industry. Greenhouses, tree farms, nurseries, and other horticulture businesses add to the diversity of agriculture in the county. Horticulture generates \$4.6 million in county economic activity, providing 117 full-time jobs and many seasonal jobs (UW-Extension). This class will prepare the student to enter this exciting career area and become knowledgeable about the "green" industry.



Natural Resources & Conservation A&B

9 10 11 12

.5 per semester

Prerequisites: None

Natural resources are here in Wisconsin, waiting to be discovered. This class involves the units of soil & land resources, water and aquaculture resources, forestry resources, outdoor recreation, alternative energy resources, and wildlife. This class spends time doing outdoor activities, as well as units with taxidermy and duck decoys. Guest speakers, labs and field trips are a part of this class.

Essential Assessments:

- All tests and quizzes

Why this course is important: This class will uncover many aspects of preserving the world around us and how a student can be a more responsible member of the environmental community. In Green Lake County, farmers own and manage the resources on 147,916 acres of land- 65% of all the land in the county. This includes pastures, cropland, and tree farms. Farmers implement various conservation practices to protect environmental resources and provide habitat for wildlife (UW-Extension). Responsible citizenship means learning and implementing these practices to keep the environment going strong for all to enjoy.

Ag Leadership & Business A&B

9 10 11 12

.5 per semester

Prerequisites: None

This class offers plenty of experiences to learn the leadership skills and business savvy that is needed to be successful in the real world. Units in this class include concepts of agribusiness, understanding business management and structures, applying basic economic principles in agribusiness, starting and operating an agribusiness, agribusiness in the world market and employability in the agriculture industry. This fast-paced, student driven class will address leadership styles, goal-setting, group dynamics, motivation, professional etiquette, job skills, and more.

Note: This class is targeted to be offered to meet the finance requirement for graduation pending School Board approval.

Essential Assessments:

- All tests and quizzes

Why this course is important: Agriculture is big business in Green Lake County, Wisconsin, and in the United States. Agriculture provides jobs for 1,591 Green Lake County residents and accounts for \$152.9 million dollars in economic activity (UW-Extension). In Wisconsin, the economic impact of the dairy industry alone is \$20.6 billion dollars (Wisconsin Milk Marketing Board). Agriculture needs leaders to move the agriculture industry forward and this class will prepare the student for a future in agriculture.



Ag Technology 10 11 12 .5 per semester

Prerequisites: Explo Woods/Metals

Ag Mechanics will challenge students to explore basic safety, soil and environmental technology systems, construction systems, electrical systems, metal fabrication, agricultural power systems, and agricultural equipment systems. Students will also explore new technology being utilized like GPS and GIS.

Essential Assessments:

- All tests and quizzes
- Projects
- Safety Exams

Why this course is important: This course is important for those students who work directly in production agriculture.

These topics will be covered in detail along with projects to be completed along the way, which will give you knowledge to assist you in a future in agriculture.

Landscaping 9 10 11 12 .5 per semester

Prerequisites: None

This course will focus on the basic principles of landscaping your home. Get your hands dirty creating some local landscape design projects. Major areas of study will include: establishing your landscaping needs, starting your plan, analyzing the site, choosing construction materials, choosing landscape structures, selecting plants, trees, shrubs, and flowers to fit your design, designing the public and living area, buying, planting and taking care of your plants. We will explore golf course and turf grass management as well.

Essential Assessments:

- All tests and quizzes
- Projects

Why this course is important: The production of landscape trees and plants as well as landscape and grounds maintenance is a rapidly growing segment of Green Lake County's agriculture industry. Greenhouses, tree farms, nurseries, and other horticulture businesses add to the diversity of agriculture in the county. Horticulture generates \$4.6 million in county economic activity, providing 117 full-time jobs and many seasonal jobs (UW-Extension). This class will prepare the student to enter this exciting career area and become knowledgeable about the "green" industry.

Art

Glass Art

2-D Art and Design I → 2-D Art Design II

3-D Art and Design I → 3-D Art Design II

Ceramics I → Ceramics II → Ceramics III → Ceramics IV

Photoshop → Graphic Design → Adobe Illustrator

Advanced Studio

Art Survey I 9 10 11 12 .5 per semester

Prerequisites: None

Students will study the elements of art: line, shape, color, value, form, space, and texture. This course is designed for students as an elective to learn the basic concepts of art without having a natural art ability.

Essential Assessments:

- Projects, including written work
- Sketches
- Final Exam

Why this course is important: Art Survey I provide students with a basic foundation in art. It teaches an appreciation for art through hands-on projects that focus on the elements of art through experiences with a wide variety of processes and media.

2D Art and Design I 9 10 11 12 .5 per semester

Prerequisites: None

Students will learn basic color theory and how to utilize color in art. They will explore how to create works in drawing and painting using watercolor, pastel, acrylic, and other 2D media.

Essential Assessments:

- Sketches
- Projects, including written work
- Final Exam

Why this course is important: Students will be exposed to a variety of drawing and painting techniques and styles using different media. These skills are applicable to other art courses as well as careers in the art and design field.

2D Art and Design II 10 11 12 .5 per semester

Prerequisites: 2D Art and Design I

Students will continue to learn and explore works in drawing and painting using watercolor, pastel, acrylic, and other 2D media.

Essential Assessments:

- Sketches
- Projects, including written work
- Final Exam

Why this course is important: Students will learn to produce more intensive 2D art using drawing and painting techniques building from basic skills learned in 2D-I.

3D Art and Design I 9 10 11 12 .5 per semester

Prerequisites: None

Students will explore 3-dimensional art and design through a variety of sculptural techniques and media. Students will learn assemblage, paper construction, and creating new sculptural forms in different media.

Essential Assessments:

- Projects, including written work
- Final Exam

Why this course is important: Students will learn the processes of creating sculptural forms in different media. They will also study famous 3-D artists and their work, including architectural achievements throughout the world.

3D Art and Design II 10 11 12 .5 credits per semester

Prerequisites: 3D Art and Design I

Students will continue to learn and explore works in drawing and painting using watercolor, pastel, acrylic, and other 3D media.

Essential Assessments:

- Sketches
- Projects, including written work
- Final Exam

Why this course is important: Students will learn to produce more intensive 3D art using drawing and painting techniques building from basic skills learned in 3D-I.

Ceramics I 9 10 11 12 .5 per semester

Prerequisites: None

Students will explore the properties of clay as well as basic handbuilding and wheel throwing techniques. They will also learn about the different types of clay, glazing, and firing processes.

Essential Assessments:

- Projects
- Final Exam

Why this course is important: Students will learn to create functional and nonfunctional pottery art forms.

Ceramics II 9 10 11 12 .5 per semester

Prerequisites: Ceramics I

Students will complete advanced handbuilding and wheel throwing projects utilizing different clays and finishing methods.

Essential Assessments:

- Projects
- Final Exam

Why this course is important: This course will challenge students to think more critically and creatively about their work.

Ceramics III 10 11 12 .5 per semester

Prerequisites: Ceramics II

Students will be introduced to more advanced techniques in hand building, and wheel throwing, with attention to details.

Essential Assessments:

- Projects
- Final Exam

Why this course is important: Students will learn to produce more intensive ceramic designs in both functional and nonfunctional clay projects.

Glass Art

9 10 11 12 .5 Credit

Prerequisite: None

Students will explore a variety of glass techniques including glass fusing, stained glass, and glass mosaics. They will learn how to use the elements of art through the design process with hands-on learning.

Essential Assessments:

- Glass Safety
- Sketches
- Projects, including written work
- Final Exam

Why this course is important?

This course will expose students to art using primarily glass. Students will learn the range of ways to create with glass. This course will challenge students to think more critically and creatively about their work through the design process.

Photoshop 9 10 11 12 .5 per semester

Prerequisites: None

Students must have an interest in computer based art. Students will explore digital image manipulation using Adobe Photoshop CSIV. They will learn how to utilize software and properly manage digital files using real world applications.

Essential Assessments:

- Chapter assignments
- Projects
- Final Exam
- Criteria set forth by MPTC

Why this course is important: This course is highly recommended for students who are considering careers in graphic design, journalism, photography, art, web design, information design and advertising.

Graphic Design 9 10 11 12 .5 per semester

Prerequisites: Photoshop

Students will explore graphic design principles through hands on activities and solving real world problems. They will create logos, CD covers, movie posters and more.

Essential Assessments:

- Chapter assignments
- Projects
- Final Exam
- Criteria set forth by MPTC

Why this course is important: Students with an interest in graphic design or a career in web development should take this course.

Graphics III, Adobe Illustrator 10 11 12 .5 per semester

Prerequisites: Graphic Design

Students will explore Adobe Illustrator software through tutorials and hands on activities, packaging designs, promotional items, and other projects.

Essential Assessments:

- Chapter Assignments
- Final Exam
- Criteria set forth by MPTC

Why this course is important: Students considering a career in graphic design or web development should take this course.

Advanced Studio Concepts A&B 12 .5 per semester

Prerequisites: Teacher approval only (students must have completed 3 years of art courses)

This course is designed for the serious art student who has a deep desire to learn and explore art and who can work independently. Students will use prior knowledge to create art projects in a variety of media.

Essential Assessments:

- Sketches
- Projects, including written work
- Final Exam

Why this course is important: Students will utilize various 21st century skills by working independently to create art projects of an intense nature.

Business Education

Computers 1 → Computers 2 → Computers 3

Accounting

Personal Finance

Introduction to Business

Career Opportunities

Computer 1 9 10 11 12 .5 per semester

Prerequisites: None

Introduces word processing applications, functions and features. Emphasizes creating, editing, saving and retrieving files; using wizards and templates; creating organized tables; and using grammar, formatting and spelling tools. Produces documents with charts generated from tables. Integrates information with other Microsoft applications. Windows-based Microsoft Word software is used. Also provides a basic overview of Windows and focuses on concepts and terminology. Students develop skills in using a mouse, working with icons, navigating Windows and networks, file/folder manipulation, and print controls.

Essential Assessments:

- Tests

Why this course is important: Students who complete Computer 1 can receive Moraine Park credit for the courses Microsoft Word and Microsoft Windows. These two courses are the first three credits of the nine credits required to complete the Office Software Suite Certificate. Also, this course will help students on the pathway to becoming more computer literate.

Computer 2 9 10 11 12 .5 per semester

Prerequisites: *Computer 1*

Introduces Microsoft Excel spreadsheet applications, functions, and features. Emphasizes creating, editing, saving and retrieving files, applying formulas, managing large workbooks, and creating charts. Also, introduces Microsoft PowerPoint, Windows-based software that facilitates the design and creation of presentations in the form of text, clip art, animation, organizational charts, and tables. Students produce interactive presentations with sound and other enhancements.

Essential Assessments:

- Tests

Why this course is important: Students who complete Computer 2 can receive Moraine Park credit for the courses Microsoft Excel and Microsoft PowerPoint. These two courses offer four credits of the nine credits required to complete the Office Software Suite Certificate. Also, this course will help students on the pathway to becoming more computer literate.

Computer 3 10 11 12 .5 per semester

Prerequisites: *Computer 1 and 2*

Develops skills to manage relational databases by completing various activities using Microsoft Access in a hands-on format. Access is a database program which keeps track of large amounts of data and organizes it in a useful manner.

Essential Assessments:

- Tests

Why this course is important: Students who complete Computer 3 can receive Moraine Park credit for the course Microsoft Access. Microsoft Access offers the final two credits of the nine credits required to complete the Office Software Suite Certificate. Also, this course will help students on the pathway to becoming more computer literate.

Career Opportunities 10 11 12 .5 per semester

Prerequisites: None

Develops skills to assist the student in growing professionally and personally. Skills include self-examination and assessment, development of effective interpersonal skills, problem-solving, critical-thinking, communication, and job application skills. Provides an opportunity to plan your educational path and job search.

Essential Assessments:

- Entry-level Resume
- Job Shadow Experience
- Letter of Application
- Application Forms
- Reference Page
- Tests

Why this course is important: This class is a prerequisite to Senior Work Project. As indicated above, it provides an opportunity for a student to plan for his/her future .

Personal Finance 11 12 .5 per semester

Prerequisites: None

Allows students to develop skills in money management including checking accounts, investments, taxes, and budgets. Includes discussions on credit and insurance.

Essential Assessments:

- Major projects
- Tests

Why this course is important: With the economy the way it is, this is very valuable information for students who will be managing their own finances soon. You will better understand your own wants, needs, and values, and how these affect personal financial decisions. Understanding the concepts presented in this class will enable you to make wise decisions that will help your financial future and make you a more effective consumer.

Accounting 11 12 .5 per semester

Prerequisites: None

Emphasizes accounting requirements for a proprietorship or partnership. Each type of business is presented in a complete accounting cycle covering analyzing transactions, journalizing, posting, petty cash, financial statements, and adjusting and closing entries. Students complete a computer simulation at the end of the year.

Essential Assessments:

- Tests
- Computer Simulation

Why this course is important: Accounting is an important class because it is the language of business. As well as learning about accounting principles and practices, students can develop many transferable skills such as paying attention to details, improving problem solving abilities, evaluating your own work, listening well, and interpreting data.

Introduction to Business 11 12 .5 per semester

Prerequisites: None

Introduces students to the world of business. Examines the areas of business such as human resources, operations management, financial management, and marketing. Gives students an overview of the types of business ventures available and the advantages and disadvantages of each. Establishes a foundation for students who are interested in managing or owning their own business. Topics include advertising, banking, finance, marketing, management techniques, technology in the workplace, and business ethics.

Essential Assessments:

- Major projects
- Tests

Why this course is important: Business is one of the most popular majors for college students. Having an understanding of how businesses work can also help students as consumers.

English / Language Arts

COMM 1 → COMM 2 → COMM 3 → COMM 4
Written COMM
AP Literature and Composition

Communications 1 A&B

9 .5 per semester

Prerequisites: None

This course focuses on grammar, vocabulary, composition skills, and literary genres including the novel, short story, poetry, nonfiction, drama, and speeches. Communications 1 is designed to develop and improve reading, writing, and oral expression skills. Study of the basics of the writing process, literature analysis, and composition structure will be explored. The basics of grammar, usage, spelling and vocabulary are instructed as well as the development of critical thinking skills through research. Writing groups and public speaking activities will also be practiced.

Essential Assessments:

- Quizzes/Tests
- Projects/Papers
- Final Exam

Why this course is important: Reading and writing are critical skills that are applicable in all fields of study and continue to be at the core of 21st Century learning.

Communications 2 A&B

10 .5 per semester

Prerequisites: Communications 1

This class is designed to examine both the reading and writing process as well as oral communication. As a reader, students will become familiar with the different characteristics of many literary forms. While analyzing these literary forms, students will also engage in activities to improve reading and understanding of both fiction and informational texts. During the writing process, students will incorporate the 6+1 traits of good writing into all writing assignments. As a writer, several pieces of written work, reflecting both personal and academic areas will be completed. Peer editing by classmates will also be done periodically throughout the semester, so ideas, suggestions, and comments may be shared between peers. While a variety of writing assignments will be completed over the course of the semester, one main writing unit will be the argumentative research essay. An emphasis will also be placed on the development and delivery of the spoken word.

Essential Assignments:

- All Unit Tests
- All Essays and Research Papers
- All Projects
- Final Semester Exam

Why this course is important: Comm. 2A is an essential step in the writing process. By analyzing the written word, students gain valuable insight into the writing process. Through application assignments, students will learn organizational approaches to writing, understand the components of informational texts, and determine the credibility of various online sources. Effective collaboration between peers, critical thinking, and the ability to make informed decisions from multiple resources are fundamental aspects of this course. Once learned, the application of these writing and research strategies will take place both in and out of the classroom.



Communications 3 A&B

11 .5 per semester

Prerequisites: Communications 2

This course includes developing students' understanding of the history and cultural progress of our country through literature conveying the perceptions and experiences of American authors. Students will analyze and contextualize the evolution of literature reflective of American literary periods from the Puritan era through modern times by exploring the customs and norms of each period as revealed through unique perspectives from a variety of authors. Students will also continue to improve their writing skills by understanding that form is related to function, that meaningful writing requires authors to choose the most effective voice and genre according to their purpose and audience. Students will also express maturity in their writing through a variety of sentence structures and syntactical methods as well as through sophisticated vocabulary and diction.

Essential Assessments:

- Quizzes/Tests
- Papers
- Projects
- Final Exam

Why this course is important: Students will gain an appreciation for our American heritage while interpreting and analyzing literature from various time periods throughout our country's history.

Communications 4 A&B

12 .5 per semester

Prerequisites: Communications 3

Over the course of this semester, this class will focus on a variety of literature that comes from England. This literature will consist of short stories, novels, plays, and poetry. While many discussions and presentations will take place, there will also be writing activities such as essays, research projects, and formal interpretations of literature. Throughout this semester, the focus will be on the people and culture, which influenced these writings, as well as take a look at the authors themselves. Famous works of literature in Old English to Modern English will engage learners in this senior-level class.

Essential Assignments:

- All Unit Tests
- All Essays and Research Papers
- All Projects
- Final Semester Exam

Why this course is important: Through meaningful and relevant class assignments, students will learn the benefits of clear, organized writing, the skills needed to analyze and appreciate literature from a variety of genres, and the ability to professionally present academic research. While exploring past cultures and relationships, students will continually strive to make improvements in the writing process, peer collaboration, academic research, and the ability to draw conclusions from multiple sources.

Written Communications

11 12

.5 credit

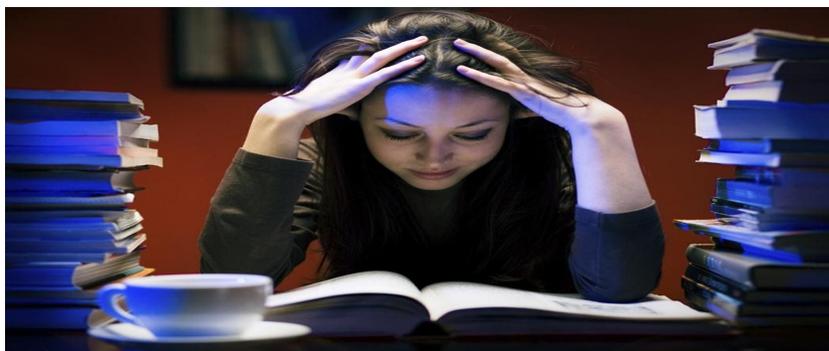
Prerequisites: Communications 1, 2

Written Communications is a rigorous course designed to meet the needs of the student preparing for college or university courses. Over the course of the semester, several pieces of creative and academic writing will be assigned. Upper level writing assignments include essays, literary analyses, a monologue and character sketch, and a thesis paper. Since reading and writing are connected, the student learner is also required to read one college level novel and three upper-level short stories. All writing assignments focus on the writing process; students are to know and apply the process both in and out of the classroom. Formal presentations that employ professional speaking skills are also a fundamental component of this college preparatory class. Students who participate in this class are expected to meet deadlines and due dates with high quality, original work.

Essential Assignments:

- All Essays
- Short Story
- Thesis Paper
- Projects
- Final Semester Exam

Why this course is important: Students in this course must demonstrate their ability to use the writing process effectively. College Writing incorporates and utilizes all the writing skills learned throughout high school. Throughout the semester, students will better understand the process of making writing clear, strong, and interesting. Collaboration between peers, critical thinking, analyzing multiple sources, and the ability to converse about writing are integral components of this course. Once finished with this course, students will understand the expectations of writing at the college level.



AP English Literature and Composition

11 12

.5 per semester

Prerequisites: Communications 2 or 3

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 the novel, short story, poetry, and drama. The focus of the course will be on intensive reading and discussion of the literature, as well introduce secondary critical essays for discussion and evaluation. Emphasis will be placed on thoughtful and relevant analysis of the readings using a variety of theoretical frameworks and devices.

Essential Assessments:

- Quizzes/Tests
- Projects, including written
- Final Exam and/or AP Exam

Why this course is important: This class will expose students to the rigor of a college level course. Students will be prepared for the national advanced placement exam, taken in May. The AP exam is optional; but particular scores on the exam may result in college credit.

Family and Consumer Education

Foods 1 → Foods 2 → Food Service/Restaurant Simulation
Independent Living Skills
Parenting
Family Living
Early Childhood Education

Foods 1 9 10 11 12 .5 credit

Prerequisites: None

In this course, the student will learn the basics of nutrition: the types, functions, and food sources of the nutrients. The MyPyramid Food Guide will be emphasized. Students will learn and understand the importance of good nutrition throughout the life cycle. Making healthful food choices will be stressed. This course will include preparing foods in the following food groups: grains, fruits, vegetables, dairy products, eggs, and meats. Students will also learn the basics of working in the kitchen, using appliances, using utensils correctly, and measuring accurately. Understanding recipes and shopping for food is included in this course. Planning and cooking light meals for large groups may also be part of the course.

Essential Assessments:

- Unit Exams
- Final Semester Exam
- Participation in Foods Labs (includes the following)
 - planning menus
 - market orders
 - shopping
 - preparing the food

Why this course is important: Every day, numerous food choices are made by an individual. Understanding and making healthful food choices improves the quality of life and increases the chance for a life free from disease and malnutrition. Eating correctly greatly improves the quality of life; it is essential for one's well-being and overall mental health.

Foods 2 9 10 11 12 .5 credit

Prerequisites: Foods 1

Students will explore food patterns: how they are formed; how they change over time; and how the family unit transmits eating behaviors and influences dietary patterns.

Meal planning will be a large component of this class with overall wellness a key concept. Current health trends and fad diets will be explored and studied. Further development of skills in the kitchen will be emphasized. Students will explore and prepare cuisines of other countries. Students will also prepare a variety of pies and yeast breads.

Essential Assessments:

- All Unit Exams
- Final Semester Exam
- Participation in Foods Labs (includes the following)
 - planning menus
 - market orders
 - shopping
 - preparation of foods

Why this course is important: In any individual life, overall wellness is a major factor. Proper eating behaviors play a large role in contributing to wellness. Studying the cuisine of other countries helps one understand the origin of the foods that we eat every day; and assists in developing an appreciation for other cultures.

Food Service/Restaurant Simulation

10 11 12

.5 credit

Prerequisites: Foods 1, 2

Exploring professional cooking through restaurant simulation is the major emphasis of this course. Students will learn about the numerous jobs in the foodservice industry by hands-on experience. The restaurant project, staffed by students, will give experience in planning menus and purchasing food while controlling costs to achieve a small profit. Students will learn to prepare soups, hot sandwiches, yeast breads, and some desserts. Students will also plan and prepare meals for large groups (i.e. Senior Citizen Prom). Throughout the semester, becoming a dependable team worker will be emphasized.

Essential Assessments:

- All Unit Exams
- Final Semester Exam
- Participation in Restaurant Simulation (includes following projects)
 - planning menus
 - shopping
 - preparation of food
 - serving customers

Why this course is important: This course is especially important for any student wanting to enter the food service industry. The course would also be valuable for any student who wants to gain more knowledge concerning food preparation, and who enjoy cooking for large groups of people. Students will gain many useful culinary skills by taking this course.

Independent Living Skills-A

11 12

.5 credit

Prerequisites: None (Highly recommended taking both semesters)

This course offers students practical information that they will need as independent adults. Students will gain knowledge and skills needed for living on one's own and with others. Being a better informed consumer is emphasized throughout the semester. Students will understand how to make wise decisions using the rational decision-making process. One very important unit deals with choosing the right career and how to be a competent employee. Management of available resources is studied; includes time, money, and energy. Principles regarding menu planning, purchasing food, and food preparation is also included in this semester.

Essential Assessments:

- All Unit Exams
- Final Semester Exam

Why this course is important: Every individual needs to learn the basics of being an independent adult. Being independent leads to a more rewarding and successful life. Every individual needs to learn the principles involved in the management of their resources.

Independent Living Skills –B

11 12

.5 credit

Prerequisites: None (Highly recommended taking both semesters)

This course is designed to include identifying resources for finding suitable housing environments for individuals and for families. Students will learn how to choose furnishings for available living space. The purchase, care, and repair of clothing will also be part of this semester. Buying and using basic insurance will be examined thoroughly. The proper use of available credit will be explored and how to control one's finances will be covered. The class will also participate in a community service project.

Essential Assessments:

- All Unit Tests
- Final Semester Exam
- Participation in Community Service Project

Why this course is important: Students need to develop critical thinking skills in making basic life decisions involved in finding suitable housing, buying insurance, and using credit. These decisions will be important parts of successful living. Being involved in community service is also an important part of citizenship.

Parenting 11 12 .5 credit

Prerequisites: None

The course is designed to emphasize the responsibilities, guidance methods, and nurturing required in being a parent or child caregiver. Development of the child is considered from conception through adolescence. A Playschool is planned and carried out by students in this class. Current information on parenting is also included in this course using well-known parenting authorities.

Essential Assessments:

- Unit Tests
- Participation in Playschool (includes the following)
 - lesson plans
 - supervising children
- Final Semester Exam

Why this course is important: At some time in life, almost every person will be a caregiver/parent. It is a great responsibility and privilege to be an important part of a child's life. Learning as much as possible about the development of children will help to make this experience a rich and rewarding one. Being a better parent/caregiver helps to improve the quality of society.

Family Living 12 .5 credit

Prerequisites: None

In this course, emphasis is placed on understanding one's development and how it affects relationships with others throughout the life cycle. The five areas of development are studied: physical, intellectual, social, emotional, and moral. Discussions and activities are held on choosing friends, dating partners, and potential spouses. Planning a wedding and how to have a rewarding, life-long marriage are part of this course. The formation of satisfying relationships built on trust, respect, cooperation and caring are constantly promoted throughout the course.

Essential Assessments:

- Personal Development Paper
- Unit Tests
- Marriage Project
- Final Semester Exam

Why this course is important: Successful, satisfying relationships are of utmost importance to having a worthwhile, complete life. These relationships also contribute to one's personal happiness and well-being.

Foundations of Early Childhood Education 11 12 .5 credit

Prerequisites: None

This course introduces students to the early childhood profession. Students will participate in an in-depth study of the child care center environment including state requirements for centers. The physical, social, emotional, and intellectual development of preschool children will be studied. Other units include: guidance techniques, health and first aid, nutritious snacks, center relationships, and professional development in the child care field.

Essential Assessment:

- All Unit Exams
- Final Semester Exam
- Participation in Playschool Project (includes following)
 - lesson plans
 - supervision of children
- Criteria set forth by MPTC

Why this course is important: Students who want to work with children as a career will benefit greatly from this course. In addition to high school credit, students can earn college credit upon successful completion of the course. Students will gain a better understanding of children and also a better understanding of their own childhood. Future parents will also find this course to be a valuable one.

Health Education

Health → Advanced Health
Medical Terms
Certified Nursing Assistant (CNA)
Basic Anatomy

Health 8, 9 .5 credit

Prerequisites: None

Students will study topics covering physical, mental and emotional health, fitness and exercise, nutrition, substance abuse, prevention and control of disease, and accident prevention and safety. Simple first aid will be taught.

Essential Assessments:

- Projects
- Unit Tests
- Final Exam

Why this course is important: Health education is essential in that it teaches about the human body; how to prevent diseases; and the relationship between behavior and health concerns. Students who understand the importance of making healthy choices establish a sound foundation for leading a healthy and productive life.

Advanced Health 11 12 .5 credit

Prerequisites: Health

This course is designed to prepare students interested in pursuing a career in the health field. Students will study current health issues, participate in a job shadow, and become certified in First Aid, CPR, and AED.

Essential Assessments:

- Job Shadow
- Projects
- Unit Tests
- Final Exam

Why this course is important: Many of the concepts learned in this class are critical skills and knowledge for everyday life. This course is beneficial for students interested in pursuing a career in the healthcare field.

Medical Terms 11 12 .5 credit

Prerequisites: None

Students will develop a vocabulary base for the medical field. The class will focus on component parts of medical terms: prefixes, suffixes, and root words. Students will practice formation, analysis, and reconstruction of terms. Students will also be introduced to operative, diagnostic, therapeutic, and symptomatic terminology of all body systems, as well as systemic and surgical terminology.

Essential Assessments:

- Quizzes
- Tests
- Final Exam
- Other criteria set forth by MPTC

Why this course is important: Students considering pursuing a career in the health field will be required to have a medical terminology class. Students are strongly advised to take this course.

Certified Nursing Assistant  **11 12** **.5 credit**

Prerequisites: Good attendance, no discipline issues, grade point average of C or better

This program provides classroom theory, laboratory experience and clinical learning that teach the skills and knowledge necessary to prepare for the CNA certification. Upon successfully completing this course, students must participate in state testing for certification. The course runs on Wednesday evenings, with occasional Mondays scheduled to meet course time requirements. In addition, students must participate in occasional Saturday clinicals.

Essential Assessments:

- Tests
- Clinicals
- Other criteria set forth by MPTC

Why this course is important: The CNA program is strongly recommended for students pursuing a career in the health field. CNA is the first step in nursing programs in all Wisconsin Technical Colleges. Additionally, many UW schools are recommending for students to have already completed CNA training prior to admission.

Basic Anatomy  **11 12** **.75 credits**

Examines concepts of anatomy and physiology as they relate to health careers. Students correlate anatomical and physiological terminology to all the body systems. This course is intended for programs that involve indirect patient care, i.e., Health Information Technology, Clinical Coding, Medical Transcription, etc

Mathematics

Math Review
Pre-Algebra
Algebra Concepts → Geometry → Advanced Algebra
Functions, Statistics, and Trigonometry (FST)
Consumer Math
Introduction to College Math
5th Year Discrete Math

Math Review A&B 9 10 .5 per semester

Prerequisites: None

Math review includes operations with whole numbers, fractions, decimal numbers, introduction of basic probability, statistics, and geometry. The course reviews the basic math facts that are essential for all students before graduation.

Essential Assessments:

- All quizzes and tests
- Projects
- Final Semester Exams

Why this course is important: This course establishes core knowledge of basic math facts that all people can utilize and should know for everyday living and for many activities or occupations. This course is recommended for students wishing to build a stronger math foundation in preparation for pre-algebra.

Pre – Algebra A&B 9 10 11 12 .5 per semester

Prerequisites: None

This is a course designed to present a logical development as an introductory course to algebra that emphasizes basic concepts, skills and fundamental operations. Increased emphasis is placed on such topics as the use of integers, equations, inequalities, graphing, and applications to problem solving. There will also be units on probability and perimeter, area, surface area, and volume of common figures.

Essential Assessments:

- Unit Tests
- Projects
- Final Exam

Why this course is important: This course allows students to review basic number relations, equation solving, and graphing. These are essential concepts to find success in technical school. Students that take this course as a freshman will be able to make college entrance math requirements their remaining three years of high school.

Algebra Concepts A&B 9 10 11 12 .5 per semester

Prerequisites: Pre-Algebra

This course is the second half of our Algebra series, it is an extension of pre-algebra. The course focuses on linear functions by solving, graphing, and algebraically representing them. Quadratic functions and exponential functions are both studied in the same manner as linear. The basics of trigonometry, geometry and proof are also explored.

Essential Assessments:

- Quizzes
- Unit exams
- Final Semester Exam

Why this course is important: This course is the first step in becoming eligible for admittance into the four year Wisconsin college system. It is also required for eligibility into most Junior College and Technical college systems. This course gives the building blocks for all endeavors into geometry, advanced algebra, and our advanced math courses. This course is the first time students must use logic and abstract thought processes to consistently construct responses.

Geometry A&B 9 10 11 12 .5 per semester

Prerequisites: Algebra Concepts

Geometry provides students with experiences that deepen the understanding of two and three-dimensional objects and their properties. Deductive and inductive reasoning as well as investigative strategies in drawing conclusions are stressed. Properties and relationships of geometric objects include the study of: (1) points, lines, angles and planes; (2) polygons, with a special focus on quadrilaterals, triangles, right triangles; (3) circles; and (4) polyhedra and other solids; (5) congruent and similar transformations. An understanding of proof and logic is developed.

Essential Assessments:

- Unit Tests
- Projects
- Final Exam

Why this course is important: Geometry is a mandatory course for college entrance. It introduces students to the theoretical and practical side of mathematics. It also teaches a logical thought process that can be applied outside of mathematics in other classes as well as the real world.

Advanced Algebra A&B 10 11 12 .5 per semester

Prerequisites: Geometry

This course studies polynomial figures, complex numbers, logarithms, quadratic and linear systems, trigonometric and circular functions, matrices, and basic probability as well as extending the concepts from previous courses of study. The course focuses on developing critical and logical thought processes and how they can be applied to problem solving.

Essential Assessments:

- Unit Exams
- Final Semester Exams

Why this course is important: This is the minimum requirement for entrance into four year colleges in the UW system. This course is designed for the college bound student to meet the requirements of any university for its basic math component. Students who perform well in this class may test out of some basic math requirements at the university level without having to pay for the credits later.

Functions, Statistics, and Trigonometry (FST) A&B 11 12 .5 per semester

Prerequisites: Advanced Algebra

This course integrates statistical and algebraic concepts, deals with functions and intuitive notions of limits, analyze data and simulate experiments. Graphing calculators and technology are utilized to further the study of polynomials, trigonometry, circular functions, and probability.

Essential Assessments:

- Unit Exams
- Final Semester Exams

Why this course is important: This course expands the knowledge of applied statistics and probability two of the fastest growing employment fields utilized in a wide variety of occupations. This course prepares those interested in a math/science field at the college level for the rigors of the course work and gives a brief overview of some of the uses of mathematics in other fields.

5th Year Math A&B

12 .5 per semester

Prerequisites: FST

Pre-calculus topics include a review of the elementary functions, advanced properties of functions, (including special attention to polynomial and rational functions), polar coordinates, complex numbers, and introductions to the derivative and integral. Discrete mathematics topics include recursion, induction, combinatorics, vectors, graphs, and circuits. Manipulation of complex rational expressions, not emphasized in previous courses, is discussed here. Mathematical thinking, including specific attention to formal logic and proof and comparing structures, is a unifying theme employed throughout the course.

Essential Assessments:

- Unit Test
- Projects
- Final Exam

Why this course is important: This course will deepen the students understanding of math on a fundamental level, open their eyes to the many fields of math, and prepare them for college level math.

Consumer Math

11 12

.5 credit

Prerequisites: None

Consumer Mathematics is a semester elective for students who are interested in a course designed to develop and reinforce the applications of mathematics in today's society. Students will investigate topics such as money management, banking, filing tax forms, calculating net pay, budgeting expenses, making cost comparisons, buying and renting a home, life insurance, health insurance, and finding the cost of operating a motor vehicle. The goal of this course is to guide students in building a strong foundation in logical thinking and problem solving that will enable them to make good decisions in their daily lives.

Essential Assessments:

- Unit Test
- Projects
- Final Exam

Why this course is important: This course will prepare students for the math side of the real world. It will also give students the ability to make educated decisions in real world money issues.

Intro to College Math

11 12

.5 credit

Prerequisites: None

This class reviews and develops fundamental concepts of arithmetic, algebra, geometry and statistics. It emphasizes computational skills and applications of rational numbers; problem-solving skills with ratios, proportions and percent, basic principles and application of algebra, geometry, graphing and statistics, measurement skills in U.S. customary and metric systems, and the use of calculators as a tool.

Essential Assessments:

- Unit Tests (Students must receive a C or better on all tests to receive tech school credit.)
- Final Exam

Why this course is important: This course will review important skills needed to find success in technical college. It will provide students that are not pursuing a mathematical or science field in college a review before they take a general education math courses.

Music Education

Choir
Band
Guitar 1 → Guitar 2
Piano

Choir A&B 9 10 11 12 .5 per semester

Prerequisites: None

Develop an interest and understanding of music through the performing arts; while increasing the student's ability to master vocal performance.

Essential Assessments:

- Lessons
- Performances

Why this course is important: To ensure that all students have opportunities which encourage lifelong involvement with music. Studies have shown that involvement in music helps to increase student test scores and promotes academic achievement.

Band A&B 9 10 11 12 .5 per semester

Prerequisites: None

Develop an interest and understanding of music through the performing arts; while increasing the student's ability to master a traditional band instrument.

Essential Assessments:

- Lessons
- Performances

Why this course is important: To ensure that all students have opportunities which encourage lifelong involvement with music. Studies have shown that involvement in music helps to increase student test scores and promotes academic achievement.

Guitar 1 9 10 11 12 .5 per semester

Prerequisites: None

Develop an interest and understanding of music while learning the basics of guitar.

Essential Assessments:

- Unit quizzes
- Performance tests

Why this course is important: To ensure that all students have opportunities which encourage lifelong involvement with music. Studies have shown that involvement in music helps to increase student test scores and promotes academic achievement.

Guitar 2 9 10 11 12 .5 per semester

Prerequisites: Guitar 1

Continue to develop an interest and understanding of music while advancing your guitar skills with more challenging musical pieces.

Essential Assessments:

- Unit quizzes
- Performance tests

Why this course is important: To ensure that all students have opportunities which encourage lifelong involvement with music. Studies have shown that involvement in music helps to increase student test scores and promotes academic achievement.

Piano 9 10 11 12 .5 per semester

Prerequisites: None Cost: \$20 for method book

This is a beginning group piano course for students with little to no previous instruction. Areas taught include fundamentals of posture and hand positioning, reading music, solo and group playing, understanding of basic music theory, lead sheet playing, and introduction to composition.

Essential Assessments:

- Unit quizzes
- Performance tests

Why this course is important: To ensure that all students have opportunities which encourage lifelong involvement with music. Studies have shown that involvement in music helps to increase student test scores and promotes academic achievement.

Physical Education

Physical Education 9/10
Weight Training

Physical Education 11/12
Lifetime Fitness

Physical Education 9/10 9 10 .5 per semester

Prerequisites: None

The course will focus on the basic skills, rules, and etiquette necessary to be successful in a variety of activities. Teamwork will be stressed. Students are required to wear specific clothes for class.

Essential Assignments:

- Regular Participation
- Unit tests
- Fitness test
- Final Exam

Why this course is important: Students will learn to play games as a method to achieve overall fitness.

Physical Education 11/12 11 12 .5 per semester

Prerequisites: None

The course will focus on the basic skills, rules, and etiquette necessary to be successful in a variety of activities. Teamwork will be stressed. Students are required to wear specific clothes for class.

Essential Assignments:

- Regular Participation
- Unit tests
- Fitness test
- Final Exam

Why this course is important: Students will learn to play games as a method to achieve overall fitness.

Weight Training 10 11 12 .5 per semester

Prerequisites: 2 semesters of PE

This course is designed for students who are interested in both muscular development and cardiovascular fitness. Students will train on various machines and use free weights to enhance levels of strength, flexibility, coordination, and endurance.

Essential Assessments:

- Regular Participation
- Unit tests
- Fitness tests
- Weight lifting log
- Final Exam

Why this course is important: Students will learn why strength training is important to physical fitness and how it can enhance their own well-being.

Lifetime Fitness

10 11 12

.5 per semester

Prerequisites: None

This course is designed to permit students to work on a variety of individual lifetime fitness activities. The class will focus on general wellness.

Essential Assessments:

- Regular Participation
- Unit tests
- Final Exam

Why this course is important: Students will participate in various individual conditioning activities that promote lifetime fitness.

Science Education

Physical Science → Biology
Explorations in Chemistry → Advanced Chemistry
AP Biology
Earth Science
Physics (*offered online*)
Horticulture and Plant Science

Physical Science A&B 9 .5 per semester

Prerequisites: None

This course is an introduction to matter and energy and their origins and relationships. Matter is examined at the atomic structure level followed with the study of physical properties of matter. Energy is examined in its various forms and transformations.

Essential Assessments:

- All quizzes
- Labs
- Projects
- Tests
- Final Exam

Why this course is important: This class prepares students with basic terminology and physical concepts needed to better learn and understand upper level high school science courses.

Biology A&B 9 10 .5 per semester

Prerequisites: None

Fundamental principles and concepts of biology are presented in this course through discussion, laboratory investigation and field trips. Subject topics include biochemistry; cell biology and cellular processes; genetics and biotechnology; ecological principles; evolution, and biodiversity and survey of six life kingdoms.

Essential Assessments:

- Quizzes
- Tests
- Lab Reports
- Projects
- Final Exam

Why this course is important: Biology is a fundamental discipline that allows students to gain an understanding and appreciation of the interrelationships between the organism and its environment.

Explorations in Chemistry A&B 11 12 .5 per semester

Prerequisites: Biology

Explorations in Chemistry is a course for students interested in continuing their interest in the field of chemistry but who do not plan to enter into a science or medical field at the college level. This course explores the chemistry in our everyday lives including topics such as cosmetic products, food, building materials, and fuel sources. More specific chemistry concepts such as simple chemical reactions, atomic/chemical structure, and the intricacies of the periodic table will broaden students chemistry understanding and interest. Topics are delivered through lab activities, interest based research projects, and project based learning.

Essential Assessments:

- Labs and Lab Reports
- Quizzes
- Tests
- Final Exam
- Internet Based Research Projects

Why this course is important: This course offers an opportunity for students interested in the subject of chemistry without the math rigor and demand of College Prep. Chemistry.

Advanced Chemistry A&B

11 12

.5 per semester

Prerequisites: Physical Science, Biology, Algebra, Science Teacher Recommendation

Advanced Chemistry is a course for students interested in continuing their interest in the field of chemistry and who plan to enter into a science or medical field at the college level. Concepts of matter and energy are presented in this class, as well as the interactions between them. A thorough study of measurements, calculations, and laboratory techniques will occur throughout the course. Laboratory activities, research, and problem solving are all methods that will be used to explore different topics within chemistry.

Essential Assessments:

- Labs and Lab Reports
- Quizzes
- Tests
- Final Exam

Why this course is important: Advanced Chemistry is an essential course for all students planning on majoring in a science field in college. Chemistry is a core science with applications in all other fields of science, a solid preparation is important for success.

Earth Science A&B

10 11 12

.5 per semester

Prerequisites: None

Earth Science focuses on understanding Earth's systems in order to understand Earth's past, to understand the present, and to predict and/or influence the future. It deals primarily with the study of the materials on Earth, the processes that shape and influence earth, and nature as well as man's reaction to those events. In semester A, students will study Astronomy and Meteorology. Semester B involves the study of geology. These semesters can be taken independent of each other.

Essential Assessments:

- Quizzes
- Tests
- Projects
- Final Exam

Why this course is important: Earth science literacy is of critical importance to our nation. Prominent issues facing us include land use and development, availability of energy and mineral resources, water resources and quality, preservation of wetlands, erosion, waste management, pollution remediation, and geological hazards. Studying earth science will help one understand how weather systems operate; why volcanoes and earthquakes occur; and why we have seasons. Earth science is also at the core of environmental science, a growing discipline at the secondary and post-secondary levels.

Environmental Science A&B

11 12

.5 per semester

Prerequisites: Biology

Students will study the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world; to identify and analyze environmental problems both natural and human-made; to evaluate the relative risks associated with these problems; and to examine alternative solutions for resolving and/or preventing them.

Essential Assessments:

- Quizzes
- Labs
- Tests
- Projects, including written
- Final Exam

Why this course is important: Environmental science is a growing field. This introductory course will prepare students for further study; as well as educate about issues at the local, state, and national level.

Physics A&B (offered online)

11 12

.5 per semester

Prerequisites: Physical Science, Algebra

Physics is the study of energy and motion. Physics is a deeper look at how matter and/or energy behave because of potential created by position, inertia and momentum.

Essential Assessments:

- All labs
- Quizzes
- Tests
- Final Exam

Why this course is important: Students planning to pursue a science career will need to earn credit in college physics as a gateway to upper level college science courses. This course will prepare you conceptually for those “gateway” college courses.

AP Biology

11 12

.5 per semester

Prerequisites: Biology, Explorations or Advanced Chemistry

This course is for students interested in the science or medical fields as a career option. AP Biology is centered around four “Big Ideas”: 1. The process of evolution drives the diversity and unity of life. 2. Biological systems utilize free energy and molecular building blocks to grow, to reproduce, and to maintain dynamic homeostasis. 3. Living systems store, retrieve, transmit, and respond to information essential to life processes. 4. Biological systems interact, and these systems and their interactions possess complex properties. This is a rigorous course that is offered as Advanced Placement with an option of taking an AP Exam for college credit.

Essential Assessments:

- Quizzes
- Tests
- Projects/Labs
- AP and/or Final Exam

Why this course is important: Any student interested in majoring in a field of science, medical or otherwise, will be required to take a number of science courses to fulfill requirements at the college level. This course is intended to build background knowledge at a college level that will better prepare students for further study.

Horticulture & Plant Science A&B

9 10 11 12

.5 per semester

Prerequisites: None

Students will now be able to earn science credit for this class. For those students who are college bound, it will also count as a third science credit at many UW schools. This class involves units that include: exploration of the horticulture industry, plant anatomy and physiology, plant propagation, growing media, nutrients, and fertilizers, integrated pest management, hydroponics, greenhouse structures, greenhouse crop production, floral design, interior plantscaping, and fruit/vegetable crop production.

Essential Assessments:

- All tests and quizzes
- Projects

Why this course is important: The production of landscape trees and plants as well as landscape and grounds maintenance is a rapidly growing segment of Green Lake County’s agriculture industry. Greenhouses, tree farms, nurseries, and other horticulture businesses add to the diversity of agriculture in the county. Horticulture generates \$4.6 million in county economic activity, providing 117 full-time jobs and many seasonal jobs (UW-Extension). This class will prepare the student to enter this exciting career area and become knowledgeable about the “green” industry.

Social Sciences

US History → Global Studies → Civics
AP US History (*offered every other year*)
AP World History (*offered every other year*)
Psychology
Sociology
Economics
Introduction to Criminal Justice System
Current World Studies

United States History-Civil War to the Present A & B 9 .5 per semester

Prerequisites: None

Students will continue to learn the story of American History beginning with the Reconstruction after the Civil war and working toward modern history. Students will learn key concepts, events, and people in order to develop a strong understanding of the foundation of the United States. Focus will be using primary and secondary sources, using graphics and evidence to be able to articulate key concepts in American History.

Essential assignments:

- All unit tests as well as any assigned papers or projects

Why is this course important:

Part of understanding who we are is understanding where we came from. Our nation has been shaped and will continue to be shaped by our past actions. One of the goals of our nation and of our schools has been to create one nation out of a hodgepodge of people. E Pluribus Unum or "one out of many" has been our motto. American History, when done properly, has been a major vehicle in creating a unified nation. The goal of this class is to continue teaching the main events and main actors that have played a role in our nation's growth.

Global Studies A & B 10 .5 per semester

Students will learn the geography and current events related to areas of the world. Students will explore the economic, cultural, and political systems in different areas of the world while using graphics, primary and secondary sources, and research to develop a strong understanding of the dynamics of the world.

Essential Assignments:

- All Unit Exams
- Semester Exam

Why this class is important:

Global Studies will provide students with the knowledge, perspectives, and skills needed to understand today's world, and prepare students for life and work in a rapidly changing globally integrated society.

AP U.S. History A & B

10 11 12

.5 per semester

Prerequisite: Recommendation of SS department

The AP US History course is designed to provide students with the analytical skills and factual knowledge necessary to deal critically with problems and materials in US history. The program prepares students for immediate advanced college courses by making demands upon them equivalent to those made by full-year introductory college courses. Students will learn to assess historical materials – their relevance to a given interpretive problem, reliability, and importance – and to weigh the evidence and interpretations presented in historical scholarship. This course will help develop the skills necessary to arrive at conclusions on the basis of an informed judgment and to present reasons and evidence clearly and persuasively in essay format (©2010 The College Board).

Essential Assessments:

- All unit exams
- Final semester exam or AP Exam

Why this course is important: The ideal candidate for this class has a passion for history, has a strong work ethic, is self-motivated, and has solid study skills.

This course provides students the opportunity to earn college credit while still in high school through scoring a 3 or higher on the AP exam in the spring. Even if a student does not earn college credit, AP US History is an exceptional course to have on your transcript when applying for colleges.

Psychology

11 12

.5 per semester

Prerequisites: None

Psychology is the study of the human individual. It looks at how humans think and act throughout the course of life. We will look at how people grow and develop from pre-birth to death in terms of their intellect, personality, and emotions. In another unit we will look at the brain and body in terms of how they operate. We will look at different theories that try to explain personalities and we will look at abnormal personalities. We will also spend time explaining altered states of consciousness like dreams and hypnosis. Other units include looking at our senses and our perceptions, learning about intelligence, and a basic concept called conditioning.

Essential Assessments:

- All unit tests
- Final Exam
- Projects

Why this course is important: Learning about psychology helps to understand human actions. It can help explain why we act the way we act. We will not solve anyone's personal problems, but we can maybe gain clues about our own actions or lives. In the process of learning about ourselves one can hopefully gain empathy towards others who are not like us or who suffer from psychological problems. This course may also stimulate interest in the field of psychology. Numerous students who have taken this course have gone on to work in the field of psychology. As a survey course, this provides an excellent background to future classes one will take after high school. And if one doesn't plan on a post-high school education, exposure to psychology terms, ideas, and events will allow one to understand events or topics that will occur in their lives.

Sociology

11 12

.5 per semester

Prerequisites: None

This course introduces students to the basic concepts of sociology: culture, socialization, social stratification, multiculturalism, and the five institutions. Other topics include deviance, technology, environment, social issues, social change, social organization, and workplace issues.

Essential Assessments:

- All unit exams
- Cultural Analysis Activity
- Deviance Case Study
- Final semester exam

Why this course is important: Sociology enables us to understand ourselves. The way that we think, behave, and feel, our very sense of identity, is socially produced. The way that we think, behave, and feel is shaped by what sociologists call the process of socialization. This course is designed to help us understand this process so that we may better understand ourselves.

Economics

11 12

.5 per semester

Prerequisites: None

This course will give the students a greater understanding of economics ranging from the viewpoint of the individual consumer or small business owner to the global economy. The course will study the law of supply and demand, forms of business, labor unions, government finances and influence on the economy, money and prices, investing, inflation and deflation cycles. The course relates history and politics to the study of economics. Students will first learn basic economics terms and will then move on to the principles of Microeconomics which is the study of how a business operates. Our study of economics is finished up with a study of Macroeconomics which examines how countries control their economies

Essential Assessments:

- All unit tests
- Final Exam
- Projects

Why this course is important: The importance of economic education goes far beyond the goal of improving understanding of the basic principles of supply and demand and the workings of our nation's economy. Economics is the study of how people make sound choices. By studying how markets work, one can also learn how to make efficient choices in managing your own scarce resources, such as time and money. Along the way, you can learn decision- and choice-making process that you can apply to all aspects of your lives. These same skills are necessary to make informed choices as citizens-to decide which public policies to support and which to oppose. As participants in a global economy, the young people of today and tomorrow will face a huge series of issues and possibilities that previous generations never had to deal with or think about. Being educated in sound economic concepts will help you make wise or intelligent choices and to help convince others of the correct path to take.



AP World History A&B

11 12

.5 per semester

Prerequisites: U.S. History

This course is an Advanced Placement course, which means students have the opportunity to earn up to six (6) college credits if they pass the AP Exam at the end of the course. The AP Course in World History invites students to study history through a global lens, placing particular emphasis on point of view. Students will learn to examine both primary historical evidence and secondary sources from multiple perspectives to understand history and draw their own conclusions.

Essential Assessments:

- All unit exams
- Final semester exam or AP Exam

Why this course is important: This course provides students the opportunity to earn college credit while still in high school. Even if a student does not earn college credit, AP World History is an exceptional course to have on your transcript when applying for colleges.

Introduction to Criminal Justice System

11 12

.5 per semester

Prerequisites: None

This course explores the three main subsystems of the criminal system: law enforcement, courts, and corrections. The history philosophy, structure, operations, procedures and current issues and future trends of these three main subsystems are presented, discussed, and studied using a cooperative learning approach. This course also identifies the functions and jurisdiction of Wisconsin law enforcement and criminal justice agencies and the sources and legal principles which form the foundation of Wisconsin criminal law in accordance with Wisconsin Training and Standards requirements 1.2 and 6.1.

Essential Assignments:

- Written Projects
- Exams

Why this course is important: Anyone interested in pursuing a career in public service/law enforcement should strongly consider this course.



Current World Studies

11 12

.5 per semester

Prerequisites: None

Through the use of the Internet, newspapers, news magazines, and other news sources we will exam current events both in the US and the world. We will try to determine why those events occurred and what their implications mean for the individual, the state or nation, and the world. Class participation is heavily required and expected.

Essential Assessments:

- Quizzes
- Tests
- Final Exam
- Project(s)

Why this course is important: Studying current events helps students to understand the importance of people and issues in the news. If students understand the issues, they won't say, "Who cares?" or "This is boring!" But they'll be challenged to discuss current events. It also helps them to clarify their own point of view on the issues and defend it with facts or sound reasons. It's also necessary to study current events to become informed voters. The very essence of democracy is the involvement of people in the decisions of government and in decisions about who is to run the government. To participate and to make wise decisions, those people have to be informed and involved. Who our government officials are affects us and our families. It's been said that informed citizens are essential to the function of a free society.

Civics

11

.5 per semester

Prerequisites: None

This Civics course is designed to examine the foundations and functions of the American government system. During the course we will examine the individual functions of federal, state, and local governments. A discussion will follow as to how these separate governments work together to make-up the American government system. Also in this course, we will explore how we, as American citizens, can become active in our local, state, and federal governments.

Industrial Education

Explorations in Woodworking → Basic Woodworking → Cabinetmaking
Construction Concepts
Explorations in Metals → Metal Processes → Metal Fabrication
Basis AutoCAD → Advanced AutoCAD
Computer Aided Machining
Home & Car Maintenance

Exploring Woodworking Safety, Materials, Processes, & Technology 9 10 11 12 .5 per semester

Prerequisites: None

Introduction to the safe use of woodworking tools and equipment; Basic AutoCAD (computer assisted design) skills will assist the student in completing an individual woods product/project; various industrial technologies will be studied with the assistance of computer modules.

Essential Assessments:

- Safety units and exams
- Wood project
- Technology units
- AutoCAD drawing
- Final Exam

Why this course is important: Students will begin learning terminology that is associated with woodworking. Students will be able to identify power equipment and hand tools. The student will understand and experience the safety aspects of all equipment. This class will benefit those that may have a desire to pursue careers in the woodworking industry as well as those who may choose woodworking as a hobby or recreational activity. Exploring Woodworking Safety is a prerequisite for all other woods courses that are part of the Tech. Ed. curriculum.

Exploring Metal Safety, Materials, Processes, & Technology 9 10 11 12 .5 per semester

Prerequisites: None

Introduction to the safe use of metal tools and equipment; individual products/projects will be produced utilizing welding, foundry, machining, and sheet metal processes; various industrial technologies will be studied with the assistance of computer modules.

Essential Assessments:

- Safety units and exams
- Welding samples
- Projects
- Final Exam

Why this course is important: Students will begin learning terminology that is associated with the metalworking industry. Students will be able to identify power equipment and hand tools. The student will understand and experience the safety aspects of all equipment. This class will benefit those that may have a desire to pursue careers in the metals industry as well as those who may choose metal fabrication as a hobby or recreational activity. Exploring Metal Safety is a prerequisite for all other metals courses that are part of the Tech. Ed. curriculum.

Basic Woodworking

10 11 12

.5 per semester

Prerequisites: Exploring Woodworking Safety

Information and independent skill development in the safe operation of hand and power woodworking tools and machines; teacher directed products/projects will enhance this learning experience.

Essential Assessments:

- Safety units and exams
- Projects
- Final Exam

Why this course is important: This course builds on concepts learned in the Exploring Woodworking course. The student will begin to learn about standard practices that are common to the woodworking industry. These concepts would include wood identification, jigs and fixtures, fasteners and common joints. The student will also apply learned skills to appropriately select tools and equipment that are necessary to complete a task. The student will begin to develop quality craftsmanship skills.



Cabinetmaking 11 12 .5 per semester

Prerequisites: Basic Woodworking

This course offers an advanced study of materials and processes as related to cabinet construction. The student will concentrate on craftsmanship and quality in designing and building of an individual project. The student will estimate the costs of board feet, dimensional lumber, veneers, plywood, hardware and finishes.

Essential Assessments:

- Safety units and exams
- Cabinet project
- Final Exam

Why this course is important: This course is an opportunity to gain experience that is current to the woodworking or cabinetry industry. The student will study the elements of design, style, structure, and cost estimation. Independent problem solving and craftsmanship skills are developed which are essential to the woodworking industry.

Construction Concepts & Application - A

11 12

.5 per semester

Prerequisites: Basic Woodworking

This course is for those students interested in exploring the fundamentals of building construction. Types of foundations, framing methods, roofing techniques, exterior and interior finishing, and estimation will be topics covered in this class. Students will also learn how to safely use other hand tools and machines. Projects include storage sheds, community projects, and other individual projects as they become available.

Essential Assessments:

- Safety units and exams
- Participation in lab activities
- Final Exam

Why this course is important: This course is important for those individuals who may want to pursue a career in the building construction industry. Structures will be built or discussed that meet current standards and codes. Craftsmanship, quality, pride, and reputation will be emphasized as projects are completed for customers.

Construction Concepts & Application - B

11 12

.5 per semester

Prerequisites: Construction Concepts & Applications - A

This course is a continuation of Construction Concepts & Applications – A. This course is for those students interested in exploring the fundamentals of building construction. Types of foundations, framing methods, roofing techniques, exterior and interior finishing, and estimation will be topics covered in this class. Students will also learn how to safely use other hand tools and machines. Projects include storage sheds, community projects, and other individual projects as they become available.

Essential Assessments:

- Safety units and exams
- Participation in lab activities
- Final Exam

Why this course is important: This course is important for those individuals who may want to pursue a career in the building construction industry. Structures will be built or discussed that meet current standards and codes. Craftsmanship, quality, pride, and reputation will be emphasized as projects are completed for customers.

Metal Processes

10 11 12

.5 per semester

Prerequisites: Exploring Metal Safety

Designed to introduce students to the basic skills needed for arc welding, gas welding, MIG welding, milling and lathe processes. Students will be trained in the safe operation of all equipment with regards to their set up and use. Students will also learn the basic skills needed to complete individual projects.

Essential Assessments:

- Safety tests
- Welding samples
- Projects
- Final Exam

Why this course is important: The Metal Processes course begins to expand on the students' ability to apply safe operating practices to projects or products with some degree of quality. The student will select processes and equipment that are designed to complete a given task. The student will develop skills to troubleshoot and problem solve.



Metal Fabrication

11 12

.5 per semester

Prerequisites: Metal Processes

This course is designed to expand and continue building all skills developed in Metal Processes. Students will be given the opportunity to design and build individual projects given prior learning activities. Problem solving skills will be encouraged by having the student identify, select and

utilize welding and machining processes that are appropriate for the task at hand. Students will recognize and understand the different properties and characteristics that are associated with the number of metal alloys.

Essential Assessments:

- Safety tests
- Project
- Final Exam

Why this course is important: This course will provide the student with an understanding of many metal processes that are used in production and repair today. This course covers theory, fundamentals of operation, equipment used and the techniques recommended. Skills learned will benefit those students with a passion to pursue educational or job related fields.

Basic AutoCAD 9 10 11 12 .5 per semester

Prerequisites: None

This course is designed to introduce the student to the fundamentals of mechanical drafting using AutoCAD software. The student will acquire basic skills that are required to produce drawings that convey necessary and specific information to the reader. The student will become familiar with the basic commands and language that is associated with AutoCAD and drafting industry.

Essential Assessments:

- Series of drawing samples
- Final Exam

Why this course is important: AutoCAD is the drafting technology of the present and the future. The student will not only learn about the basic commands of the AutoCAD program but also about other basic drafting skills. These skills would include planning and sketches, line types and their uses, drawing geometric shapes and constructions, editing, orthographic projections, and dimensioning practices.



Advanced AutoCAD 10 11 12 .5 per semester

Prerequisites: Basic AutoCAD

This course is intended to enable the student to master drafting components of 2D drawings that satisfy industry standards and were introduced in Basic AutoCAD. The student will also receive instruction in 3D drawing, editing, visualization, rendering, and display techniques.

Essential Assessments:

- Series of drawing samples
- Final Exam

Why this course is important: 3D drawing and design is becoming more prevalent throughout the industry. This course will allow the student to acquire basic drafting skills that may be applied both inside and outside of the traditional drafting and design areas. Advanced drafting concepts will give the student the opportunity to explore applications related to CAM and CNC operations that are standards of industry and manufacturing.

Computer Aided Machining 11 12 .5 per semester

Prerequisites: Metal Fabrication, Basic AutoCAD

This course is an introduction to advanced dimensional (2D) Computer Aided Machining (CAM) utilizing Mastercam software. Students develop skills in the generation of 2D geometry, generation of 2D toolpath, CNC machine code generation, programming, editing and manipulation, speed and feed rate calculations, and optimization of programs for maximum efficiency. Working knowledge of CNC Programming language and basic machining concepts is desired.

Essential Assessments:

- Unit exams
- Projects
- Final Exam
- Criteria set forth by MPTC

Why this course is important: The CAM course is designed for those students that may have an interest in pursuing careers in manufacturing and industry. CAM concepts and applications are standard in many factories, businesses and companies today. This course will give the student the opportunity to apply all prior knowledge of metal fabrication, welding, machining and CAD.

Home & Car Maintenance

10 11 12

.5 per semester

Prerequisites: None

Students will become aware of basic operating systems of a home or car. Basic troubleshooting and preventative care of the home and car will be learned through a variety of hands on experiences. Students will learn how to safely operate general equipment and hand tools. This class is designed to target those students with limited or no experience in the Tech. Ed. Area.

Essential Assessments:

- Maintenance projects
- Demonstration project
- Final Exam

Why this course is important: Home and Car Maintenance is designed to help students become more knowledgeable about his or her surroundings as they begin to live independently. The individual will learn and experience many of the basic maintenance activities that can be performed by a renter or homeowner that will be financially beneficial. The student will also learn about activities that will help them become a more informed consumer. Basic car repairs and maintenance schedule recommendations will be instructed and performed.

World Languages

Spanish 1 → Spanish 2 → Spanish 3 → Spanish 4 (*online*)

Spanish 1 A&B 9 10 11 12 .5 per semester

Prerequisites: None

Spanish 1 is an introductory course designed to develop an understanding of the skills involved in learning another language. Students will experience another culture through new sights and sounds and will use basic Spanish to talk about oneself, family and friends, surroundings and activities. The course covers the four skills of language learning: listening comprehension, reading, speaking and writing while emphasizing the culture of the countries.

Essential Assessments:

- Unit Tests
- Major projects
- Oral presentations/Reports
- Final Exam

Why this course is important: In an increasingly interactive world the value of foreign languages and cultural awareness is essential in today's international business and political environment. The study of a foreign language today will prepare you for the many opportunities tomorrow.

Spanish II A&B 10 11 12 .5 per semester

Prerequisites: Spanish I

Spanish II continues to practice the language skills acquired in the first level. Speaking and listening skills continue to be developed along with increased emphasis on reading and writing in the target language. Students continue to explore cultural and geographical similarities and differences between their own and the target cultures.

Essential Assessments:

- Units Tests
- Major projects/presentations
- Final Exam

Why this course is important: Foreign language is a worthwhile skill for the future. It can enrich the personal and intellectual lives of students by developing usable skills, cultural appreciation and global awareness. The successful completion of at least two years of language study may fulfill certain language requirements for some colleges and universities.

Spanish III A&B 11 12 .5 per semester

Prerequisites: Spanish II

During this course students will expand on and achieve a greater degree of proficiency in the Spanish language. They will continue to further their ability to communicate orally and in a written context. Third year students will also continue to gain a better understanding and appreciation of the Hispanic cultures.

Essential Assessments:

- Unit tests
- Major oral and written projects
- Final Exam

Why this course is important: Students will develop an understanding and appreciation of the cultural diversity and heritage of the Spanish speaking world. They will develop proficiency in the four modes of communication: listening, reading, writing and speaking. Certain university programs may require at least three years of foreign language study.

Spanish IV A&B 12 .5 per semester

Prerequisites: Spanish III

The fourth year course focuses on reading and literature, advanced grammar, conversational practice, and cultural study.

Essential Assessments:

- Unit tests
- Major projects
- Final Exam

Why this course is important: Successful completion of multiple levels of foreign language study demonstrates a command of higher level thinking and initiative. Students may be able to earn college credit through course completion or retroactive credit through college placement tests.

NON-DISTRIBUTIVE

Teacher Assistant A/B (90695/96) 11 12 .25 per semester

Prerequisites: Complete application and interview process.

Designed for students interested in pursuing a career as a teacher, counselor, social worker, and/or related field to their assignment. Students may pick up an application through the guidance office. *T.A. must be taken the same hour as your scheduled study hall.*

Driver Education (90735) 9 10 11 12 NO CREDIT

Prerequisite: Freshman/Sophomore class standing, who will have reached their 15th birthday by December 31st of this year - exceptional attendance in this class is required under state law.

Designed to teach proper attitudes and habits; supply information that will help the student become a responsible and safe driver. This course is taught in the summer by Ries Driving School.

Yearbook A/B (90501/02) 9 10 11 12 .25 per semester

Prerequisite: Instructor approval (Mrs. Jean Hoffmann)

Offered to students with instructor approval and through the guidance office reference; offers class work on the yearbook.

Senior Work Project A&B 12 .25-.5 credit per semester

Prerequisite: None

Description: Students in the program must meet the following requirements: pass all semester classes; complete portfolio requirements on time (exceptions may be made with program instructor approval); students can only join at semester; students wishing to participate in the program must attend all senior work project meetings which will be held at 8:15 a.m. twice a month; student work schedule must occur during the hours you are leaving for work. Students must have a job at the beginning of the course.

Principles of Leadership 9 10 .5 credits per semester

Description: This is a class designed to develop the characteristics and attitudes of leadership. Students will develop and learn what it takes to be a positive member of society and lead others to do the same. This class has been created for 3 primary reasons:

1. To focus on the question that is not getting asked: What did you do for others today?
2. To teach strong leadership and character skills to better prepare our students for life in and out of school.
3. To give teachers the opportunity to connect with their students in a positive way and form a positive relationship through quality conversations and lessons.

Youth Apprenticeship A&B 11 12 .50 credits per semester

This is a one or two year program for high school juniors and seniors with a specific career interest. The student can work multiple hours. The student will be interviewed and hired by the employer, maintain academic standing and acceptable attendance in school, maintain acceptable performance on the job, observe the rules and requirements of the employer, and master the skills in the youth apprenticeship curriculum.

Tutoring A/B 11 12 .25 Credits per semester

Prerequisite: Complete application and interview process.

Designed for students interested in helping others to succeed and be role models and leaders within their school. This class will take the place of the student's study hall.

ACADEMIC COURSES

<p><u>ENGLISH</u> Independent English Communications 1 A/B Communications 2 A/B Communications 3 A/B AP English Lit & Comp A/B Written Communication</p>	<p><u>MATHEMATICS</u> Independent Math Math Review A/B Pre-Algebra A/B Algebra Concepts A/B Geometry A/B Advanced Algebra A/B Stats-Trig A/B Consumer Math *Introduction to College Math 5th Yr Discrete Math A/B</p>	<p><u>SCIENCE</u> Independent Science Physical Science Biology A/B Earth Science A/B Environmental Science A/B Exploratory Chemistry A/B Advanced Chemistry A/B Physics A/B AP Biology A/B *Basic Anatomy</p>
<p><u>SOCIAL STUDIES</u> Independent Social Studies US History A/B AP US History A/B AP World History A/B Global Studies A/B Psychology Economics Sociology Introduction to Criminal Justice</p>	<p><u>PHYSICAL EDUCATION</u> Adaptive Physical Education PE 9/10 A/B PE 11/12 A/B Wt Training/Aerobics A/B Lifetime Fitness A/B</p>	<p><u>HEALTH EDUCATION</u> Health Advanced Health/CPR *Careers in Allied Health *Medical Terms *Certified Nursing Assistant (CNA)</p>

ELECTIVE COURSES

<p><u>AGRICULTURE</u> Intro to Agri-Science A/B Large Animal Science A/B Small Animal & Vet Science A/B Horticulture & Plant Science A/B Natural Resources A & B Ag Leadership A/B Landscaping Ag Technology</p>	<p><u>BUSINESS EDUCATION</u> Computers 1, 2, 3 Career Opportunities Personal Finance Accounting A Introduction to Business A</p>	<p><u>FAMILY AND CONSUMER ED</u> Foods 1, 2 Food Service/Restaurant Independent Living Skills A/B Parenting Family Living Early Childhood Education</p>
<p><u>ART/DESIGN EDUCATION</u> Art Survey I Glass Art Photoshop Graphic Design Adobe Illustrator Ceramics I, II, III 2-D Art I, II 3-D Art I, II Advanced Studio A/B</p>	<p><u>MUSIC</u> Band A/B Choir A/B Guitar 1, 2 Piano</p>	<p><u>INDUSTRIAL EDUCATION</u> Exploring Woods Technology Exploring Metals Technology Basic Woodworking Cabinetmaking Construction Concepts A/B Basic AutoCAD Advanced AutoCAD Metals Processes metal Fabrication Computer Aided Machining Home and Car Maintenance</p>
<p><u>FOREIGN LANGUAGE</u> Spanish 1, 2, 3, 4</p>	<p><u>NON-DISTRIBUTIVE</u> Teachers Assistant A/B Yearbook A/B Senior Work Project</p> <p style="text-align: right;">Principles of Leadership Youth Apprenticeship Tutoring</p>	

In School - On-Line Courses

8. Basic Anatomy- with MPTC
College Course - Basic Anatomy & Physiology (806-169) 3 credits

ADVANCED PLACEMENT COURSES

Scores on the AP exam determines whether a college will accept the credit for the course taken.

9. AP U.S. History
10. AP World History
11. AP English Literature & Composition
12. AP Calculus AB (online)
13. AP Advanced Biology

COLLEGE COURSES WITH UW-MADISON EXTENSION

Taught through correspondence and supported by Markesan High School Teacher

14. German 4
College Course - Second Semester German (U424-102) 4 credits
15. Spanish 4
College Course - Second Semester Spanish (U912-102) 4 credits