

# WAUPUN AREA JR/SR HIGH SCHOOL

WAUPUN, WISCONSIN

## **District Vision Statement:**

Challenging Minds- Inspiring Action- Prepared for Tomorrow

## **District Mission Statement:**

In collaboration with our youth, families, and communities, we will prepare our students to be resilient, determined, and productive citizens with a passion for learning in an ever changing world.

## **2018– 2019 GENERAL INFORMATION**

As a student it is necessary to have a plan that will outline your total learning program for your four years at Waupun Area Jr/Sr High School. This long-range career map can be changed, but some classes have prerequisites. Proper planning is essential so that you can complete your requirements and electives in four years.

This handbook is designed to help Waupun students map out a strong course of study for the 2018 – 2019 school year. Read and study the entire book carefully. With the help of your counselor, teachers, and parents, construct a schedule that will consider:

- Your goals.
- Your test results and past achievements.
- Areas of learning where additional skills are needed/desired.

## WHAT'S NEW FOR YOU IN 2018 - 2019

### Graduation Requirements:

#### Credit Requirements

26.0 Total

4.0 English

3.5 Social Studies

3.0 Science

3.0 Math

0.5 Personal Finance (Sophomores or Juniors may take this course)

1.5 Physical Education

.5 Health

### Graduation Standard:

You must pass all required courses from the core areas of English, Social Studies, Science and Math in order to meet graduation requirements. If you fail a core class, you must retake it and pass it in order to graduate from Waupun Area High School.

### Weighted Grading System:

All Advanced Placement classes from the core areas will be graded on a 5.0 grade point scale. This scaled grade point average will be used for determining rank in class only. Honor roll will still be determined from a 4.0 grade point scale.

### New Classes/Requirements:

Advanced Horticulture

Agricultural Communications

Gothic Literature

Modern Literature

Function Statistics and Trigonometry A & B

AP Statistics

Intro to Warrior Fabrication

## GRADUATION REQUIREMENTS

*26.0 credits are required to graduate with 16 core requirements as follows:*

### **English (4 credits)**

Grade 9	English 9 (1 credit)
Grade 10	English 10 (1 credit)
Grade 11	English 11 (1 credit)
Grade 12	English Course(s) (1 credit)

### **Social Studies (3.5 credits)**

Grade 9	World Geography (1/2 credit); History of Democracy (1/2 credit)
Grade 10	U.S. History A & B (1 credit)
Grade 11	Global Historical Connections A & B (1 credit)
Grade 12	Senior Democratic Seminar (1/2 credit)

### **Science (3 credits)**

Grade 9	Biology A & B (1 credit)
Grade 10	Chemistry A & B (1 credit)
Grade 11 or 12	Science Elective(s) (1 credit)

### **Mathematics (3 credits)**

Students are placed in the appropriate Math class by Mathematics teacher/counselor.  
Students must pass both Algebra and Geometry to meet minimum graduation requirements.

### **Business Education (½ credit)**

Grade 10-12	Personal Finance
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### **Physical Education (1 ½ credits)**

Grade 9	Physical Education 9 (½ credit)
Grade 10	Physical Education 10 (½ credit)
Grade 11	Physical Education Elective (½ credit)

### **Health (½ credit)**

Grade 9	Health Education (½ credit)
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## CORE COLLEGE PREPARATORY REQUIREMENTS

All students are encouraged to exceed the minimum number of college preparatory credits required for admission. Students who choose a rigorous high school curriculum (including senior year coursework) are, in most cases, more successful in college. Strong academic preparation for college helps to ensure success.

<b>Minimum Requirements</b>		<b>Typical for Admission</b>	
English	4 credits	English	4 credits
Mathematics	3 credits	Mathematics	4 credits
Social Studies	3 credits	Social Studies	4 credits
Science	3 credits	Science	4 credits
Electives	4 additional credits from the areas of: English, Mathematics Social Studies, Science World Languages*	Electives	2 additional credits from the areas of: English, Mathematics Social Studies, Science World Languages*

\* Note: Many colleges and universities require at least two years of a single foreign language to meet entrance requirements.

The following list of Waupun Area Jr/Sr High School classes meet the rigorous requirements accepted at all colleges/universities:

### English

Core College Prep Classes

#### Junior Year

English 11

AP Language and Composition

#### Senior Year

AP English Literature and Composition

College Preparatory English

Technical Preparatory English

AP Language and Composition

### Mathematics

Core College Prep Classes

Algebra II

Recommended

Pre-Calculus

AP Calculus AB

Calculus BC

Functions, Statistics & Trig A&B

### Science

Core College Prep Classes

Chemistry

Physics

Recommended

Human Anatomy/Physiology

Botany/Zoology

AP Chemistry

Principles of Biomedical Sciences

Human Body Systems

### Social Studies

Core College Prep Classes

AP U.S. Government and Politics

AP Psychology

AP U.S. History

Recommended

Social Issues

Economics

Introduction to Psychology

\* AP Classes are highly recommended for students who plan to attend a four-year college or university. **For students who pass the spring AP Exam, a score of 3, 4, or 5 will enable them to take, as a freshman, a higher level course and receive college credit for the work done here. (Check with your specific college to learn how your AP Exam score will be granted credit.)**

# TECHNICAL COLLEGE RECOMMENDED COURSES

## TOP 10 REASONS TO ATTEND A WISCONSIN TECHNICAL COLLEGE

1. Ticket to a great-paying career
2. Hands-on learning
3. Affordable tuition
4. Shorter time investment
5. Individual attention
6. Strong job placement record
7. Flexible class scheduling
8. Instructors are industry experts
9. Credit transfer to four-year programs
10. 300 career choices that allow you to follow your passion

The following courses at Waupun Area Jr/Sr High School offer students a unique way to get a jump start on Technical College credits. These classes are dual credit courses. With dual credit, students earn the college credit at the time they are enrolled in the course. The courses are also transferable to other technical colleges.

Dual credits apply to courses that:

- Are MPTC courses taught in the high school using technical college curriculum and textbooks.
- Are taught by high school teachers.
- Follow MPTC's grading policies.
- Are recorded on the MPTC transcript (Formal College Record)
- Maybe transferred to other Wisconsin Technical Colleges.



Art

- Beginning PhotoShop
- Intro to Graphic Arts

Business:

- Computer Applications
- Accounting A & B
- Business Law

Family/Consumer Science Education:

- Assistant Child Care Teacher
- Medical Terminology

Mathematics:

- College Math A & B
- Technical Math IA & IB

Technology:

- Advanced Welding Fabrication

Transcripted Credits apply to courses that:

- Are Lakeshore Technical College courses taught in the high school using technical college curriculum.
- Are taught by high school teachers.
- Follow LTC's grading policies.
- Are recorded on the LTC transcript (Formal College Record)
- Maybe transferred to other Wisconsin Technical Colleges.

Agriculture:

- Large Animal Science and Veterinary Science
- Dairy Science and Large Animal Science
- Crops and Soils

## **FOR ALL STUDENTS**

### **Graduation Diploma Requirements**

- Attend full time for four full years of school unless approved for Early Graduation.
- 26.0 credits

### **Credit Load**

- All students will schedule 2.5 credits per trimester.
- Independent Study credit may be used toward graduation requirements, if approved by the principal.

### **Early Graduation**

In exceptional cases, a junior student may arrange to graduate after completing the second trimester of his/her senior year, in accordance with established school district policy and procedures. A student may apply in the school counseling office for early graduation during the end of their junior year. All application materials must be submitted to the school counseling office no later than June 1<sup>st</sup> of their junior year. Approval of early graduation by the high school principal will be contingent on the following criteria:

- Satisfying all credit requirements.
- Completing the 3 2/3 year enrollment requirement.
- Maintaining a C (2.0) average grade in all course work taken.
- Applicant needs to submit evidence of admission to a post high school training institution (or programs), a letter from an employer stating the student has been hired for a position or will be entering the military following the completion of their 2<sup>nd</sup> trimester.

Denial for early graduation by the high school principal may be appealed to the district administrator.

### **Grading Periods**

Grades/credits will be earned based on a twelve week trimester. The recorded grades include the use of a plus or minus. Report cards will be issued every twelve weeks. How that impacts a student's grade point average is listed below:

**Grade Point Average (GPA)** is computed on a 4.0 scale, considering letter grades earned in all classes.

A = 4.00	B = 3.00	C = 2.00	D = 1.00
A- = 3.67	B- = 2.67	C- = 1.67	D- = 0.67
B+ = 3.33	C+ = 2.33	D+ = 1.33	F = 0.00

### **Weighted Grades**

Rank in class is computed on a 5.0 weighted scale. Grades received in Advanced Placement classes within the core areas will use the following scale.

A = 5.00	B = 4.00	C = 3.00	D = 2.00
A- = 4.67	B- = 3.67	C- = 2.67	D- = 1.67
B+ = 4.33	C+ = 3.33	D+ = 2.33	F = 0.00

### **Honor Roll**

Honor Roll is computed each trimester. There are three categories of Honor Roll:

**Honor Roll** -- Student must have earned a Grade Point Average of 3.00 - 3.666.

**High Honor Roll** -- Student must have earned a Grade Point Average of 3.667 - 4.000.

**A List of Straight A (4.000)** – Student will also be published with the honor rolls.

### **Advanced Placement Exams**

The purpose of Advanced Placement (AP) exams is to allow students to earn college credit while still in high school. AP courses require a greater time commitment than regular classes. Students have been able to take exams in the following areas (\*\* NEW in 2018-19):

AP – Calculus A/B	AP – Literature & Composition	AP – U.S. History	AP – Psychology
AP – Calculus B/C	AP – Language & Composition	AP – Studio Art	AP - Chemistry
AP – Art History	AP - U.S. Government and Politics	AP - Statistics	

### **Dual Credit**



When you see this logo by a course name it means that course is a dual credit course taken during your high school years. **While completing the course, your teacher will provide you with appropriate documentation that must be submitted in order to receive technical college credit after graduation.**

### **School to Work Experience**

School to Work course prepares students in careers of their choice. The school provides education in the skills and knowledge needed for an occupation, and the business community provides the laboratory in which the students can practice these skills. These programs serve seniors who have employability skills and who have identified a career in which they wish to gain further knowledge. The students receive credit for their on-the-job experience and related high school class. **Students must be current with graduation requirements to participate in this program.**

**NOTE: The Employability Skills class must be taken to be eligible for the School to Work class senior year.**

- Agriculture Education - This program provides education for students interested in agriculture and agribusiness.
- Business Education - This program provides education for students interested in building skills in office machines, procedures, telecommunications, mailing/shipping, word processing, database, and spreadsheets.
- Family and Consumer Education - This program provides education for students interested in childcare, foods industry, hospitality, tourism, CNA nursing, and housing/interior design.
- Technology Education - This program provides education for students interested in a technical field related to construction, woods or metals manufacturing, graphic communication, automotive, drafting, and design.

### **Independent Study**

- If a student has a topic that they wish to study, academic time may be provided for that student to study the topic independently. In order to do so, the ensuing procedure must be followed:
  - a. Contact a teacher in the field of your topic of interest. If the teacher agrees to be your advisor, that teacher and you should discuss what you will do for your independent study.
  - b. Your advisor and you should formalize your plan in writing and submit it to the principal for approval. The principal will accept or reject the plan and determine the amount of credit you will receive for successful completion and file a copy in the office.
  - c. Parent's written approval must be obtained.
  - d. All work must be completed under the supervision of your advisor.
  - e. Your advisor will evaluate your program.
  - f. When the study is completed, your advisor will determine your grade and credit.
  - g. Maximum credit for a given Independent Study will be approved by the high school administration in consultation with each Independent Study advisor.

### **Audits**

- There are several reasons a student may wish to audit a class.
  - a. A student may wish to audit a course due to interest without submitting one's self to the pressure of grades. The student must have the teacher's pre-approval.
  - b. The student may wish to improve their original grade to a higher grade. In this case the original grade becomes the audit, and the grade from the recently repeated class becomes the new grade.
  - c. The student may be required to repeat a class to meet certain prerequisites not met on the first attempt. The original grade becomes the audit, and the grade from the recently repeated class will become the new grade.
- Audit determination must be made within one week of the start of the course. Once the decision has been made or the weeks have elapsed one may not change from credit to audit or back to credit.

### **Start College Now (Formerly known as Youth Options)**

The Youth Options program allows public high school juniors and seniors who meet certain requirements to take post-secondary courses at a University of Wisconsin Institution, a Wisconsin Technical College, or one of the state's participating private, nonprofit institutions, if space is available. Anyone interested must complete an application and submit it to the counseling office by March 1<sup>st</sup> for the fall semester and October 1<sup>st</sup> for the spring semester.

### **Course Fees**

These are charged to the students who enroll in some courses where consumable materials are used or they remain the personal property of the student (i.e. art, technology, various courses with workbooks, etc.).

Students are encouraged to check with the teacher or in this guide if there is any doubt as to the existence of a course fee.

### **Scheduling Process**

Waupun Area Jr/Sr High School begins the scheduling process for the next year in late December/early January. The courses described in this booklet are those approved by the School Board for offering to our students, but does not guarantee that all electives will be available. The Board decides in March each year what electives will be offered, based on student enrollment.

The District determines the master schedule of all courses and teacher assignments based on student selection of courses. For these reasons, careful selection is very important. Some classes have **prerequisites** that should be followed. **All schedule changes must be completed before the end of the school year.**

Every effort will be made to honor each student's request for courses; however, conflicts between courses do arise. There is no such thing as a perfect schedule in which all students receive all of their choices. However, if conflicts do arise, counselors will contact the student and help them resolve the problem.

### **Class Change Deadline**

Careful selection of all courses and their sequence is important. Changes are accommodated if they relate to meeting graduation requirements (not convenience). In general, all course changes are to be completed prior to June 1, 2018.

**Courses may be added no later than four days into the new trimester.**

## 2018-2019 COUNSELOR ASSIGNMENTS

Feel free to contact them: (920) 324-5591, ext. 2805

### **Freshmen, Sophomores, Juniors, & Seniors:**

**Mrs. Mueller: Students with last names A – L**  
[jmueller@waupun.k12.wi.us](mailto:jmueller@waupun.k12.wi.us)

**Mr. Niederkorn: Students with last names M – Z**  
[dniederkorn@waupun.k12.wi.us](mailto:dniederkorn@waupun.k12.wi.us)

### **Grades 7 and 8:**

**Mrs. Breier**  
[lbreier@waupun.k12.wi.us](mailto:lbreier@waupun.k12.wi.us)

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# ACTION LEARNING

Course Title	Open to	Credit	Page
Community Service Credit	9, 10, 11, 12	½	12
Credit Recovery	9, 10, 11, 12	varies	12
Independent Study	9, 10, 11, 12	varies	12
Employability Skills	11	½	12
Health Services Youth Options	11, 12	¾	12
Youth Apprenticeship A, B, C	11, 12	½ per tri	13
School To Work Experience A, B, C	12	½ per tri	13
Senior Release	12	0	13

## **COMMUNITY SERVICE CREDIT**

½ credit

**PREREQUISITES:** Grades 9-12; One-half credit can be earned once during high school. (60 hours documented)

This is to be completed within one school year. A grade of pass/fail will be earned upon completion.

**COURSE CONTENT:** Community Service shall consist of unpaid helpful acts that benefit other persons or organizations.

The following activities do not qualify as community service: 1) work at home or for a relative; 2) paid working; 3) work in a religious or church related activity; 4) work during the school day. A student election to apply for community service credit shall complete a community service agreement through the counseling office. Prior approval by the principal is required before starting.

## **CREDIT RECOVERY**

varies

**PREREQUISITES:** Grades 9-12

**COURSE CONTENT:** Credit recovery is an option for students to gain credit for classes that they have been unable to pass in the regular classroom environment. A web-based program called OdysseyWare will be used by students to recover their lost credit. For more information, see your counselor or special education teacher.

## **INDEPENDENT STUDY**

**PREREQUISITES:** Grades 9-12; Pre-approval of Principal.

Amount of credit will vary

**COURSE CONTENT:** When the needs and interests of the student indicate goals that cannot be satisfied within the limits of the curriculum and/or structure, the student may enter into a contract with a teacher in the subject area of the expressed interest. Such a contract shall indicate the goals to be achieved, the learning activities to be experienced, an approximation of the necessary time involvement, methods of evaluation, and the credit to be awarded. Credit can be granted only upon the approval of the Principal.

## **EMPLOYABILITY SKILLS**

½ credit

**PREREQUISITES:** Grade 11 and 12

1 trimester

**COURSE CONTENT:** Employability Skills is a one term course. The major emphasis of this course will be learning how to effectively complete a resume, job applications, and interviewing skills. Good work ethics, attitude, hygiene, business law, harassment at the workplace and other topics are covered in this class.

The Employability Skills class must be passed with a C or better in order to be eligible for the School to Work program.

## **HEALTH SERVICE, YOUTH OPTIONS A & B**

¾ credits

Includes State Certified Nurse's Assistant Certification

1 trimester

**PREREQUISITES:** Grades 11-12

**COURSE CONTENT:** This is a class providing the fundamentals for exploring in the health field. You will have the opportunity to earn your Certified Nurse's Assistant Certification from MTPC.

**STUDENT COSTS:** \$41.00 workbook/module, Name Tag \$6.96, Scrub Top \$12.50

**YOUTH APPRENTICESHIP A, B, C**

½ per tri

**PREREQUISITES:** Grades 11-12**COURSE CONTENT:** Wisconsin's Youth Apprenticeship program is designed for Juniors and seniors who want hands on learning in an occupational area. Students are employed by a participating employer under the supervision of a skilled mentor.**PROGRAMS**

- Agriculture, Food and Natural Resources
- Architecture and Construction
- Arts, A/V Technology and Communications
- Finance
- Health Science
- Hospitality, Tourism and Lodging
- Information Technology
- Manufacturing
- Science, Technology, Engineering and Math (STEM)
- Transportation, Distribution and Logistics

**STUDENT BENEFITS**

- Students benefit from their participation by:
- Establishing a clear connection between school and career
- Increasing motivation and retention by showing the relevance of academic coursework
- Exploring possible careers and enhancing skill development
- Developing workplace responsibility and positive work habits and attitudes
- Encouraging completion of secondary education and enrollment in postsecondary education
- Providing opportunities for leadership, and
- Being mentored by skilled professionals
- Paid minimum wage or higher.

**SCHOOL TO WORK EXPERIENCE A, B, C**

½-1 ½ credits

**PREREQUISITES:** Grade 12

1 – 3 trimesters

**COURSE CONTENT:** School to Work is a senior only option. Students must take the Employability Skills class to be eligible for the School to Work Experience. Students will be responsible for placement and recordkeeping according to established school guidelines.**SENIOR RELEASE**

0 credit

**PREREQUISITES:** Grade 12; 3.0 cumulative GPA, Approval from principal/counselor**COURSE CONTENT:** Senior's who have met the prerequisites, will be allowed to schedule 1 block of release time for one trimester during the school year. Students are required to complete 15 hours of community service (approved by the principal) prior to the trimester in which they would like to have their senior release.

# AGRICULTURE

Course Title	Open to	Credit	Page
Agricultural Maintenance	9, 10, 11, 12	½	14
Companion Animals	9, 10, 11, 12	½	14
**Horticulture	9, 10, 11, 12	½	14
Intro to Ag A: Leadership, Pets, Plants & You	9, 10, 11, 12	½	14
Intro to Ag B: Wildlife, Animals, Hort. & You	9, 10, 11, 12	½	15
Landscaping	9, 10, 11, 12	½	15
Advanced Landscaping	10, 11, 12	½	15
Advanced Agricultural Mechanics	10, 11, 12	½	15
Crops and Soil Science	10, 11, 12	½	15
Dairy Science	10, 11, 12	½	15
Large Animal Science	10, 11, 12	½	15
Wildlife & Natural Resources Management	10, 11, 12	½	16
**Veterinary Science	10, 11, 12	½	16
Advanced Horticulture	10, 11, 12	½	16
Agricultural Communications	11, 12	½	16
Employability Skills	11, 12	½	16

## **AGRICULTURE MAINTENANCE**

½ credit

**PREREQUISITES:** Grades 9-12

1 trimester

**COURSE CONTENT:** Students have the opportunity to gain a hands-on experience in the area of agricultural maintenance. Classroom projects and hands-on labs will cover the topics of fabrication, hydraulics, lubrication, pole barns, maintenance and the true fundamentals of this industry. Major projects will be student developed according to interests of Agriculture, and the student's and communities' needs.

**STUDENT COSTS:** \$20.00

## **COMPANION ANIMALS**

½ credit

**PREREQUISITES:** Grades 9-12

1 trimester

**COURSE CONTENT:** The Animal Lab becomes your classroom. Students interested in companion animals will LOVE this class. Students gain hands-on, practical experience and knowledge about owning a variety of pets. General care, disease prevention, nutrition, grooming, handling and other topics will be covered. Daily observation and work in the animal lab are a part of this class.

## **HORTICULTURE**

½ credit

**PREREQUISITES:** Grades 9-12 (will count as Science credit for graduation)

1 trimester

**\*Won't replace required Physical Science or Biology credits**

**COURSE CONTENT:** In this class the greenhouse will become your classroom. Through numerous lab projects students will gain hands-on experiences about greenhouse growing of plants, fertilization, finishing and marketing of plants that include flowering plants and more than 50 varieties of bedding plants. Discussion of careers, reproduction and design are a part of this class as well.

## **INTRODUCTION TO AGRICULTURE A: Leadership, Pets, Plants & You**

½ credit

**PREREQUISITES:** Grades 9-12

1 trimester

**COURSE CONTENT:** This class will provide you with the opportunity to gain a wealth of information about the dynamic world of agriculture! Hands-on labs, experimentation, animal lab experiences and more await you in this class. Guest speakers, field trips and more highlight the experiences you will gain. Take advantage of the opportunity to learn a lot in a fun and educational setting. Areas of focus are leadership development, small animal science and agricultural commodities.

**STUDENT COSTS:** \$10.00

**INTRODUCTION TO AGRICULTURE B: Wildlife, Animals, Horticulture & You**

½ credit

**PREREQUISITES:** Grades 9-12

1 trimester

**COURSE CONTENT:** This class will provide you with the opportunity to gain a wealth of information about the dynamic world of agriculture! Hands-on labs, experimentation, animal lab experiences and more awaits you in this class. Guest speakers, field trips and more highlight the experiences you will gain. Take advantage of the opportunity to learn a lot in a fun and educational setting. Areas of focus are agricultural mechanics, wildlife and natural resources, large animal science and horticulture.

**STUDENT COSTS:** \$10.00**LANDSCAPING**

½ credit

**PREREQUISITES:** Grades 9-12

1 trimester

**COURSE CONTENT:** This course will focus on the basic principles of landscaping your home. 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. Get your hands dirty making landscapes designs become reality as we complete landscape projects in the community.

**ADVANCED AGRICULTURAL MECHANICS**

½ credit

**PREREQUISITES:** Grades 10-12; Successful completion of Ag. Maintenance

1 trimester

**COURSE CONTENT:** This course will take the knowledge gained in Ag Maintenance and develop your skills even further by gaining a hands-on approach to career fields in agricultural mechanics by visiting area businesses, developing skills in electrical diagnostics, hydraulic repair, diesel engines, implement repair and much more. Students will have a variety of structured labs to complete as well as the opportunity to create individual labs as well.

**STUDENT COSTS:** \$20.00**ADVANCED LANDSCAPING**

½ credit

**PREREQUISITES:** Grades 10-12; Landscaping

1 trimester

**COURSE CONTENT:** This course will take the knowledge gained in Landscaping and develop student skills even further by gaining a hands-on approach to the hardscaping components of landscaping. Students will work with stone concrete pavers and much more as they create raised beds, patios, retaining walls, and much more.

**CROPS AND SOIL SCIENCE**

½ credit

**PREREQUISITES:** None, Grades 10-12 **Dual Credit with Lakeshore Technical College**

1 trimester

**COURSE CONTENT:** This one term class will introduce students to the principles of crop science and the importance of the major agronomic crops to the world-wide economy. A study of the origin, structure, general nature of soil and the factors related to soil fertility, maintenance, and fertility practices will also be discussed.

**DAIRY SCIENCE**

½ credit

**PREREQUISITES:** Grades 10-12 **Dual Credits With Lakeshore Technical College**

1 trimester

**COURSE CONTENT:** This class provides the student who is interested in the dairy industry, the opportunity to gain hands-on, practical approach to cutting edge information about the dairy industry. Primary information covers the dairy cow, nutrition, milk quality, herd health, new technologies and effective marketing strategies. Students will earn AI certification through this course. Students can expect a variety of field trips and guest speakers to add additional insight to the amazing dairy industry.

**STUDENT COSTS:** \$25.00 for AI Certification costs**LARGE ANIMAL SCIENCE**

½ credit

**PREREQUISITES:** Grades 10-12

1 trimester

**\*Won't replace required Biology or Chemistry credits; **Dual Credit with Lakeshore Technical College****

**COURSE CONTENT:** This hands-on class provides students with the opportunity to gain an in-depth knowledge of raising production animals. Students will work with industry leaders to gain first-hand knowledge of the current trends in the livestock industry. Units covered will include: physiology, nutrition, marketing, and more.

**STUDENT COSTS:** \$10.00

**WILDLIFE AND NATURAL RESOURCES MANAGEMENT**

½ credit

PREREQUISITES: Grades 10-12

1 trimester

COURSE CONTENT: Come join us as we explore the great outdoors! This one trimester class will focus on the past, present, and future natural usage of our fish, forestry, and wildlife resources. Students will gain hands on opportunities in the school woods, creating a taxidermy project, decoys, a fishing rod and the opportunity to earn their trappers certification! This is the class to take for the outdoor enthusiast!

STUDENT COSTS: \$40.00

**VETERINARY SCIENCE**

½ credit

PREREQUISITES: Grades 10-12 (will count as a science credit for graduation)

1 trimester

**\*Won't replace required Biology or Chemistry credits; Dual Credit With Lakeshore Technical College**

COURSE CONTENT: This hands on class provides students with the opportunity to gain an in-depth knowledge of production animals. Students will cover a wide variety of species of animals and will gain a deeper knowledge of the anatomy and physiology of these animals. Guest speakers and field trips highlight this class.

**ADVANCED HORTICULTURE**

½ credit

PREREQUISITES: Grades 10-12 and successfully passed Horticulture with a C or better

1 trimester

COURSE CONTENT: This class will build upon the knowledge gained in Horticulture to create value-added products, custom designs, vegetable production and advanced greenhouse management. The greenhouse is your classroom as you gain the skills to operate a greenhouse business.

**AGRICULTURAL COMMUNICATIONS**

½ credit

PREREQUISITES: Grades 11-12 and a minimum of one previous agriculture class

1 trimester

COURSE CONTENT: Effective communication is essential for any workplace setting. This class will provide students with the opportunity to develop advocacy skills and create a variety of market-ready products to promote a vision created by the student. Emphasis is placed on designing, proofreading, correcting and producing work-ready products.

**EMPLOYABILITY SKILLS**

½ credit

PREREQUISITES: Grade 11 and 12

1 trimester

COURSE CONTENT: Employability Skills is a one term course. The major emphasis of this course will be learning how to effectively complete a resume, job applications, and interviewing skills. Good work ethics, attitude, hygiene, business law, harassment at the workplace and other topics are covered in this class.

The Employability Skills class must be passed with a C or better in order to be eligible for the School to Work program

# BUSINESS EDUCATION

Course Title	Open to	Credit	Page
Business Law	9, 10, 11, 12	½	17
Computer Applications	9, 10, 11, 12	½	17
Computer Hardware & IT Essentials	9, 10, 11, 12	½	17
Desktop Publishing	9, 10, 11, 12	½	17
Introduction to Business	9, 10, 11, 12	½	18
Information Processing	9, 10, 11, 12	½	18
Web Page Design	9, 10, 11, 12	½	18
Advanced Business Law	10, 11, 12	½	18
Accounting A & B	10, 11, 12	1	18
Computer Programming	10, 11, 12	½	18
Entrepreneurship	10, 11, 12	½	18
Personal Finance	10, 11, 12	½	19
Sport and Entertainment	10, 11, 12	½	19
Advanced Accounting A & B	11, 12	1	19

## **BUSINESS LAW**

½ credit

**PREREQUISITES:** Grades 9-12

1 trimester

**COURSE CONTENT:** This class offering is designed to inform students of the basic legal principles relevant to their roles as citizens, consumers, and employees. Content includes the origin of law, the court systems, criminal and civil law, basic elements of contracts, consumer protection, bailment, employer-employee relations, the legal considerations when renting, wills and estates. The law is interpreted through case studies and mock trials held throughout the tri.

## **COMPUTER APPLICATIONS**



½ credit

**PREREQUISITES:** Grades 9-12

1 trimester

**COURSE CONTENT:** This course is a must for all students since we live in a technology driven society. Students will learn the basics of Office 2013. Applications covered will include word processing, spreadsheet, and presentations. This course is a self-paced. **Students who complete the required competencies of the Computer Applications class at the high school level will not have to repeat it at Moraine Park Technical College.**

## **COMPUTER HARDWARE & IT ESSENTIALS**

½ credit

**PREREQUISITES:** Grades 9-12

1 trimester

**COURSE CONTENT:** In this course students will be exposed to learning about computer hardware essentials. Areas covered will include: personal computer assembly, upgrading, setup and configuration, troubleshooting, repair, maintenance, operating systems, PC security, and basic networking.

## **DESKTOP PUBLISHING**

½ credit

**PREREQUISITES:** Grades 9-12; Computer Applications

1 trimester

**COURSE CONTENT:** In this course, students will use Adobe Photoshop, Adobe InDesign, iPhoto, and iMovie, along with digital cameras to create professional media. This course will introduce students to digital video editing. Students will learn how to capture, edit and output digital video, and how to sync video with audio. In addition to technical skills, we will emphasize both acquiring production skills and understanding the application of digital media in various careers.

**INTRODUCTION TO BUSINESS**

½ credit

**PREREQUISITES:** Grades 9-12

1 trimester

**COURSE CONTENT:** This class is designed to give students a broad overview of the world of business and is the prerequisite for other courses in business. Units include: economics, business ownership, marketing, entrepreneurship, and international business. The course also includes participating in the Stock Market Game along with completing a Virtual Business Simulation in retail.

**INFORMATION PROCESSING**

½ credit

**PREREQUISITES:** Grades 9-12

1 trimester

**COURSE CONTENT:** This course will enable students to format and produce official business documents while furthering their keyboarding skills. Emphasis is placed on designing, proofreading, correcting, and troubleshooting. Advanced procedures in different computer software will be learned and used in real world applications.

**WEB PAGE DESIGN**

½ credit

**PREREQUISITES:** Grades 9-12

1 trimester

**COURSE CONTENT:** The world has become digital with an estimate of over two billion web pages on the Internet. Our global market depends upon effective communication over the net. In this class, learn how to create web pages that will attract and hold the viewer's interest. This class will use software programs such as Weebly, iMovie, Photoshop, and Flash to design web pages. Students will also focus on effective web design while understanding basic HTML concepts. Join us for an exciting new adventure in creating web pages for school, personal, and business use.

**ADVANCED BUSINESS LAW**

½ credit

**PREREQUISITES:** Grades 11, 12; Business Law

1 trimester

**COURSE CONTENT:** This course is designed to further your study of law and the world of business. It looks into the legal, ethical and global environments in which businesses carry out their activities. Specific attention will be focused on the most relevant 21<sup>st</sup> Century issues which confront those engaged in business. Topics will include: alternative dispute resolution cyber law, theft identify, consumer protection, forms of business organization, and securities.

**ACCOUNTING A & B**

1 credit

**PREREQUISITES:** Grades 10-12

2 trimesters

**COURSE CONTENT:** Accounting is the language of business. This course is a must for any student who is interested in pursuing a career in business and also those who wish to develop a solid foundation on how to successfully run the finances for business operations. The units include the accounting cycle for both a proprietorship and a corporation. Simulations will be used at the end of each cycle.

**STUDENT COSTS:** \$30.00 for online access to working papers

**COMPUTER PROGRAMMING**

½ credit

**PREREQUISITES:** Grades 10-12; Computer Applications

1 trimester

**COURSE CONTENT:** Students will learn to appreciate the problems, potential, and real-world applications of computers through the use of programming languages. This course will provide students with a working knowledge of how computers have and will impact their lives. It is important for the student to be skilled in analyzing problems and being able to problem solve. Languages covered will include QBASIC, Visual Basic, C++, and Java.

**ENTREPRENEURSHIP**

½ credit

**PREREQUISITES:** Grades 10-12; Introduction to Business

1 trimester

**COURSE CONTENT:** This course is designed for students interested in pursuing an alternative career path.

Entrepreneurship education prepares students to carry out the entrepreneurial process and experience the mindset needed to succeed in today's economy. Students will learn and apply the concepts of entrepreneurship. This includes the benefits of teamwork, leadership, communication skills, taking the initiative, being creative, being flexible, and how to problem solve. Students will have the opportunity to develop a product/service, create a business plan for it, and essentially launch that product on the market.

**PERSONAL FINANCE (Required course)**

½ credit

PREREQUISITES: Grades 10-12

1 trimester

COURSE CONTENT: Understanding financial management concepts is an important life skill. It is essential that students understand the consequences of their choices. By taking this course, students will gain a thorough understanding of financial concepts, with practical application through activities and projects. Upon completion, students will leave with useful skills for life and will be better prepared for their financial futures.

**SPORTS AND ENTERTAINMENT**

½ credit

PREREQUISITES: Grades 10-12; Introduction to Business

1 trimester

COURSE CONTENT: Marketing is the tool that has allowed the United States Economy to be one of the most successful in the world. Come and learn how fans and companies spend billions of dollars each year on sports and how entertainment is one of the largest exports from the United States to the rest of the world. You will learn the basic functions of marketing and how those functions are applied to sports and entertainment.

**ADVANCED ACCOUNTING A & B**

1 credit

PREREQUISITES: Grades 11-12; Accounting

2 trimesters

COURSE CONTENT: If accounting is the career for you, try this advanced course. It will focus on accounting as an occupation with the emphasis being placed on corporation accounting. A working knowledge of Microsoft Excel is required. Some areas that will be studied are: the analysis of financial reports and the cash flows of a business. Simulations will be used as unit projects. Upon completion of this course, students will have a skill that will qualify them for entry level accounting jobs.

STUDENT COSTS: \$40.00 for online access to working papers

# ENGLISH

Course Title	Open to	Credit	Page
English 9 A & B	9	1	20
English 10 A & B	10	1	20
Speech	11, 12	½	20
English 11 A & B	11	1	20
AP English Language & Composition A & B	11, 12	1	20
Creative Writing	11, 12	½	21
Gothic Literature	11, 12	½	21
Modern Literature	11, 12	½	21
AP English Literature & Composition A & B	12	1	21
College Preparatory English A & B	12	1	21
Technical Preparatory English	12	½	21

## **ENGLISH 9 A & B**

1 credit

**PREREQUISITES:** Required for graduation

2 trimesters

**COURSE CONTENT:** This course will introduce students to the three strands in the area of English; writing, literature, and speech. Students will have an opportunity to read a variety of short stories along with classic pieces of literature including *Of Mice and Men* by John Steinbeck and *Romeo and Juliet* by William Shakespeare. Particular attention will be paid to developing reading and writing strategies that students will need for high school coursework.

## **ENGLISH 10 A & B**

1 credit

**PREREQUISITES:** Required for graduation

2 trimesters

**COURSE CONTENT:** The primary focus in English 10 is to have students develop their critical reading and persuasive writing proficiencies with varied literary texts including: *To Kill a Mockingbird* by Harper Lee and *Night* by Elie Wiesel. Students will further hone their speaking and listening skills in both formal and informal situations.

## **SPEECH**

½ credit

**PREREQUISITES:** Grades 11-12

1 trimester

**COURSE CONTENT:** This course will focus on both formal and informal speaking skills as well as listening and evaluation proficiency necessary in future educational and occupational endeavors. From demonstration speeches to group discussions and debate to propaganda analysis, this course will help students enhance their verbal communication and critical thinking skills.

## **ENGLISH 11 A & B**

1 credit

**PREREQUISITES:** Required for graduation

2 trimesters

**COURSE CONTENT:** This class is a culmination of “the best of the best” from our previous English electives. Regardless of their intended future, ALL students will leave this course with a shared understanding of the 11<sup>th</sup> grade Common Core standards. The units taught in this class include world literature, American literature, classic British literature, and contemporary literature. Along with reading and analyzing the pieces, students will also write in response to them, conduct relevant research, and present information both formally and informally.

## **AP ENGLISH LANGUAGE & COMPOSITION A & B**

1 credit

**PREREQUISITES:** Grade 11 or 12 & successful completion of English 10 or recommendation of his/her most recent English teacher.

2 trimesters

**COURSE CONTENT:** This new course is available for juniors and seniors. This course will engage students in the careful reading and critical analysis of various sources, mostly nonfiction. Through close reading of selected texts, students should deepen their understanding of how writers use language to provide meaning for their readers, while

considering a passage's content, style, and rhetoric. Summer reading may be required. This course will prepare students for the Advanced Placement exam and beginning college English courses. If students earn a score of 3 or better on this exam, they may earn college credit, depending on where they enroll. **Strongly recommended for college bound students. This course may not be taken in place of English 11.**

### **CREATIVE WRITING**

½ credit

PREREQUISITES: Grades 11-12

1 trimester

COURSE CONTENT: Do you like to write, make up stories, and dabble with poetry? Do you like the freedom of working independently? If so, this is the elective English course for you. Forms of writing that you will explore include poetry, short story, one-act play, and short pieces of fiction. Various classroom activities may include viewing contemporary films such as *Dead Poet's Society* and participating in a bi-weekly Coffeehouse activity where students get to read their original pieces. This course is designed for independent, self-motivated students who truly enjoy writing creatively in a workshop style setting.

### **GOTHIC LITERATURE**

½ credit

PREREQUISITES: Grades 11-12

1 Trimester

COURSE CONTENT: Do you enjoy reading about the mysterious, mystical, and macabre? Then this course is for you! Designed for students who are interested in developing their understanding of Gothic literature, you will be exposed to classic pieces like *Frankenstein* and *Dracula*, while also reading more modern pieces like "The Bad Seed" and Stephen King. In addition to reading, you will also continue to hone your writing skills, language development, and communication prowess.

### **MODERN LITERATURE**

½ credit

PREREQUISITES: Grades 11-12

1 Trimester

COURSE CONTENT: This half credit English course is available to both juniors and seniors. Focusing on literature that is modern, you will have the opportunity to read contemporary authors such as Jodi Picoult and Tom Franklin while also delving into informational texts on current social issues. In addition to reading, you will also continue to hone your writing skills, language development, and communication prowess.

### **AP ENGLISH LITERATURE & COMPOSITION A & B**

1 credit

PREREQUISITES: Grade 12 and successful completion of English 11 or recommendation of his/her most recent English teacher.

2 trimesters

COURSE CONTENT: This course will engage students in the careful reading and critical analysis of imaginative literature. Through close reading of selected texts, students should deepen their understanding of how writers use language to provide both meaning and pleasure for their readers. Students will consider a work's structure, style, and themes along with the author's use of figurative language, imagery, symbolism, and tone. Summer reading may be required. This course will prepare students for the Advanced Placement exam and beginning college English courses. If students earn a score of 3 or better on this exam, they may earn college credit, depending on where they enroll.

**Strongly recommended for college bound students**

### **COLLEGE PREPARATORY ENGLISH A & B**

1 credit

PREREQUISITES: Grade 12

2 trimesters

COURSE CONTENT: This now two-trimester course will prepare students for the rigor of college-level work by reviewing and developing the skills of reading, writing, and literature analysis. Strongly aligned with the Common Core standards, students will develop proficiency in various organizational writing patterns (cause/effect, problem/solution, etc.), critical reading and analysis of both informational and literature texts, vocabulary enhancement, convention review and development, and college lecture preparation.

### **TECHNICAL PREPARATORY ENGLISH**

½ credit

PREREQUISITES: Grade 12

1 trimester

COURSE CONTENT: Tech Prep will be based heavily on communication, with less emphasis on skills that will help prepare you for technical college and/or the workplace. Units covered include workplace writing (resumes/cover letters), technical reading, punctuation, and speaking. As a whole, this course will prepare students for the various communication modes necessary in business and industry.

# FAMILY AND CONSUMER SCIENCES

Course Title	Open to	Credit	Page
Introduction to Health Sciences & Human Services (HS) <sup>2</sup>	9, 10	½	22
Interior Design	9, 10, 11, 12	½	22
Food & Nutrition	9, 10, 11, 12	½	22
World of Children	9, 10, 11, 12	½	23
Culinary Arts	10, 11, 12	½	23
*Food Science	10, 11, 12	½	23
Advanced Culinary Arts	11, 12	½	23
Assistant Child Care Teacher (ACCT) A & B	11, 12	1	23
Child Development	11, 12	½	24
Independent Living	11, 12	½	24
Medical Terminology	11, 12	½	24
Restaurant Operations	11, 12	½-1	24

\* will count as an elective science credit

## **INTRODUCTION TO HEALTH SCIENCES & HUMAN SERVICES (HS)<sup>2</sup>** ½ credit

**PREREQUISITES:** Grades 9-10 1 trimester

**COURSE CONTENT:** Would you like to become a banker, chef, cosmetologist, counselor, dietician, event specialist, financial advisor, food scientist, interior designer, microbiologist, mortician, nanny, nurse, pediatrician, religious leader, restaurant owner, small business owner, social worker, surgeon, teacher, technician, therapist, urban planner/designer, veterinarian, or waitress? Are you interested in careers in the health science or human services academy? Exploration of careers and skills needed in the medical field, working with children, food service, money management, and much more will take place through lab experiences, demonstrations, projects, simulations, hands-on activities, and real-life experiences. This course is highly recommended before taking World of Children, Medical Terminology, and Food, & Nutrition in high school.

**STUDENT COSTS:** \$5.00 for food lab fee

## **INTERIOR DESIGN** ½ credit

**PREREQUISITES:** Grades 9-12 1 trimester

**COURSE CONTENT:** This course will introduce housing needs and options of individuals and families at various stages of life. Additionally, this course will introduce students to the applied art and elements and principles of design by creating effective interior and exterior spaces. Students will learn architectural styles, furnishing to create a functional space, and explore color as it relates to mood for that space. Activities include creating room models, design inspiration boards, learning design software, and field trips.

**STUDENT COSTS:** \$5.00 for paints and other supplies needed for projects

## **FOOD & NUTRITION** ½ credit

**PREREQUISITES:** Grades 9-12 1 trimester

**RECOMMENDED:** Introduction to (HS)<sup>2</sup>

**COURSE CONTENT:** What influences your food choices? Is it your friends, your family, or the society around you? Emphasis is placed on the relationship of diet to health, kitchen and meal management, food preparation and sustainability for a global society. The hands-on activities regarding food preparation in laboratory situations is a main component of this course. Labs includes preparing foods from a variety of food groups and examining the past, present, and future of food.

**STUDENT COSTS:** \$25.00 foods lab fee

**WORLD OF CHILDREN**

½ credit

**PREREQUISITES:** Grades 9-12

1 trimester

**RECOMMENDED:** Introduction to (HS)<sup>2</sup>

**COURSE CONTENT:** Do you love children? Do you want to know how they walk, talk, think, act, and what makes them “tick?” You will gain an understanding of a child’s life from conception to adulthood. A child’s world is explored as you examine the physical, intellectual, emotional, and social development of a child at each age and stage. You will focus on the day-to-day handling of children by creating projects, through interactive experiences, inviting children in, and by exploring ways children have fun.

**CULINARY ARTS**

½ credit

**PREREQUISITES:** Grades 10-12; Food & Nutrition (formerly FFS)

1 trimester

**COURSE CONTENT:** This is a course designed to explore the careers in the Restaurant and Food/Beverage Services and teaches students the fundamental skills they will need to begin their career in this field. A review of basic kitchen techniques, safety and sanitation, knife skills and equipment will lead to lab experiences that will involve hands-on food preparations. Techniques learned will help in preparation of: appetizers, garnishments, soups/salads/sandwiches, and fruits/vegetables. Students will also have the opportunity to compete in class competitions and market their food products for sale as part of the course. **\*must take this course before signing up for advanced culinary arts.**

**STUDENT COSTS:** \$25.00 food lab fee**FOOD SCIENCE**

½ credit

**PREREQUISITES:** Grades 10-12: Food & Nutrition (formerly FFS) or Intro to (HS)<sup>2</sup>

1 trimester

**(will count toward science credit for graduation, but will not replace the required biology or chemistry credits)**

**COURSE CONTENT:** Do you ever wonder what it takes to get food from the farm to you? Food science is the study of producing, processing, preparing, evaluating, and using food. Course content will include physical and chemical principles that affect food through the cooking process and the food we consume. Students gain hands-on learning with weekly labs and experiments. Enjoy taste testing, experimenting, and analyzing foods in the various processing stages.

**STUDENT COSTS:** \$15.00 for lab experiences**ADVANCED CULINARY ARTS**

½ credit

**PREREQUISITES:** Grades 11-12; Food & Nutrition (formerly FFS) and Culinary Arts

1 trimester

**COURSE CONTENT:** This course will continue to build upon the fundamental techniques learned in Culinary Arts, preparing students for a future career in the Restaurant and Foodservice Industry. Knowledge will be gained through class competitions, food sales, and hands-on lab experiences. Preparation and skills involving proteins, main entrees from foreign countries, desserts/baking, and beverages will be explored. Guest services, management and marketing will be discussed preparing students for their final class project of running a restaurant.

**STUDENT COSTS:** \$25.00 food lab fee.**ASSISTANT CHILDCARE TEACHER (ACCT) A & B**

1 credit

**PREREQUISITES:** Grades 11-12; World of Children

2 trimesters

**COURSE CONTENT:** This course is designed for those students who are considering a career working with children. It is specifically tailored to meet the future needs of those who wish to care for children in a childcare facility or classroom, as well as those who choose to work with children in other related professions. Students in this course will conduct a preschool simulation with preschool children (play school simulation or working with Meadow View Primary school and their 4K). **This course is a dual credit course and students may receive 3 credits at Moraine Park Technical College if successfully completed. Students may also receive ACCT Certification through the WI Department of Public Instruction and be hired by a licensed child care facility with an additional 10 hours of work in a licensed child care facility.** Students will also receive their Shaken Baby Syndrome certificate and Adult/Child/Infant CPR certification through this course.

**STUDENT COSTS:** \$15.00 course fee for CPR certification and projects/supplies needed for play school simulation

### **CHILD DEVELOPMENT**

½ credit

**PREREQUISITES:** Grades 11-12

1 trimester

**COURSE CONTENT:** This course will help students discover how people should respond to the various stages of childhood. Topics covered include child development theories, prenatal and birth processes, techniques regarding discipline and guidance of children, responsibilities and difficulties of parenthood, and recognition of abuse and neglect. Fundamentals of children's emotional and physical development and care of infants, toddlers and young children will be explored by developing children's activities and participating in a playgroup. You will also have the opportunity to deal hands on with children in a school setting and experience the sense of pregnancy by wearing the empathy belly. **Infant/Toddler certification may be given in conjunction with completing the Assistant Child Care Teacher certification successfully and an additional 10 hours of work in a licensed child care facility with infants and/or toddlers.**

### **INDEPENDENT LIVING**

½ credit

**PREREQUISITES:** Grades 11, 12

1 trimester

**COURSE CONTENT:** Whether you go to college, enter the workforce, join the military or have other plans there are many skills you will need to master to be a successful, independent adult. Learning how to make responsible and informed decisions is essential when you live on your own. You will get a job, find a place to live, manage a checkbook and savings account, understand credit, and buy a car in this course. Other independent issues discussed include relationships, risky behaviors and your food choices.

**STUDENT COSTS:** \$8.00 lab course fee for food and other costs

### **MEDICAL TERMINOLOGY**



credit

**PREREQUISITES:** Grades 11-12

1 trimester

**COURSE CONTENT:** If you are interested in a career in the medical field, this class is for you. This class will focus on the component parts of medical terms; prefixes, suffixes, and word roots. This course will emphasize each system of the body. For each body system you will learn the main components of the system, a basic understanding as to how it operates and the problems a human body may encounter dealing with that system. Medical procedures will also be a focus. **This course is a dual credit course and students may receive 3 credits at Moraine Park Technical College if successfully completed.**

**STUDENT COSTS:** \$60.00 for workbook

### **RESTAURANT OPERATIONS**

½-1 credit

**PREREQUISITES:** Grade 11-12, with pre-approval from Culinary Teacher

1 or 2 trimesters

Advanced Culinary Arts; Food Science, own transportation

**COURSE CONTENT:** This course is designed to facilitate learning about the professional culinary industry. This class will provide the opportunity to work in groups, practice time management, goal setting, cooperative learning, and critical thinking all while working on culinary techniques within industry standards. This course reinforces basic cooking and serving competencies and develops new skills specific to catering preparations and service. Students practice the skills of controlling inventory, analyzing costs and sales, and operating a complete catering/restaurant business under the direction of a faculty member. Consistent daily participation is expected.

# FINE ARTS: MUSIC

Course Title	Open to	Credit	Page
Jazz Band	9, 10, 11, 12	¼	25
Show Choir	9, 10, 11, 12	¼	25
Senior High Symphonic Band A, B, C	9, 10, 11, 12	1	25
Open Choir A, B, C	9, 10, 11, 12	1	25
Select Choir A, B, C	10, 11, 12	1	26
Music Theory	11, 12	½	26

## **JAZZ BAND**

1/4 credit

**PREREQUISITES:** Grades 9-12 (Students not enrolled in band need consent of the instructor)

3 trimester

**COURSE CONTENT:** The high school Jazz Band is open to all Waupun Area High School students. The course will meet before school twice a week throughout the school year. Students who take Jazz Band will be exposed to, explore, and study various types of jazz music that they don't get a chance to in the normal band setting. This will include the blues, Latin, and swing music just to name a few. Secondly, students involved in the Jazz Band will study improvisation techniques, and have opportunities to solo with the group as an accompanist. Lastly, the Jazz Band will use class time to prepare for various concerts, festivals, and solo and ensemble competitions.

**STUDENT COST:** \$20.00 per trimester as applicable for rental of school instruments.

## **SHOW CHOIR**

1/4 credit

**PREREQUISITES:** Grades 9-12; Entrance by audition

3 trimesters

**COURSE CONTENT:** Students in this ensemble need to demonstrate level of commitment to the WAJSHS Choral Music Program. This group will meet 2 times a week before school throughout the school year. Students will prepare for vocal performances that include choreography. Students are required to attend all performances. Participation in Solo/Ensemble is optional.

**STUDENT COSTS:** Students may need to purchase attire for performances.

## **SENIOR HIGH SYMPHONIC BAND A, B, C**

1 credit

**PREREQUISITES:** Grades 9; required, 10-12; Encouraged

3 trimesters

**COURSE CONTENT:** During the first trimester, emphasis is on preparation for marching band performances at home football games. In the remaining two trimesters, students perform in several concerts, participate in the solo/ensemble festival and receive a private or small group lesson. Practice time outside of regular rehearsal time is vital for meeting obligations of the group and continued development on one's instrument. Students also participate in the Pep Band which performs at a number of home athletic events as well as in area parades. In addition, members perform at graduation.

**STUDENT COSTS:** \$20.00 per trimester for rental of school-owned instruments and percussion instruments. Students are required to have black shoes and block socks to complete the marching band uniform.

## **OPEN CHOIR A, B, C**

1 credit

**PREREQUISITES:** Grades 9; required, 10-12; Encouraged

3 trimesters

**COURSE CONTENT:** All students are encouraged to register. Students will build off of previous choral skills. Students will be assessed on the following: vocal performance, reading and writing music, evaluating music performances, and understanding how music relates to history and culture. Students are required to attend all performances.

Participation in Solo/Ensemble is optional.

**STUDENT COSTS:** None

**SELECT CHOIR A, B, C**

1 credit

PREREQUISITES: Grades 10-12; Entrance by audition

3 trimesters

COURSE CONTENT: Students will build off of previous choral skills. As a Select Choir, students will study more challenging music and sing cappella more frequently. Students will be assessed on the following: vocal performances, reading and writing music, evaluating music performances, and understanding how music relates to history and culture. Students are required to attend all performances. Participation in Solo/Ensemble is optional.

STUDENT COSTS: Students may need to purchase attire for concert performances.

**MUSIC THEORY**

½ credit

PREREQUISITES: Previous participation in band/choir or other musical training encouraged

1 trimester

COURSE CONTENT: This class is open to all junior and senior music students. It meets every other day for a semester. Students enrolled in this class will be exposed to elements of music not covered in the traditional band or choir setting. Students learn how music is composed and analyze various elements of music. This class is highly encouraged for those thinking about any type of career in music.

# FINE ARTS: VISUAL ARTS

Course Title	Open to	Credit	Page
Ceramics I	9, 10, 11, 12	½	27
Digital Photography	9, 10, 11, 12	½	27
Drawing I	9, 10, 11, 12	½	27
Interior Design	9, 10, 11, 12	½	28
Beginning Photoshop	9, 10, 11, 12	½	28
Introduction to Graphic Arts	9, 10, 11, 12	½	28
Metals & Jewelry I	9, 10, 11, 12	½	28
Painting I	9, 10, 11, 12	½	28
Sculpture I	9, 10, 11, 12	½	28
Web Design	9, 10, 11, 12	½	28
Ceramics II	10, 11, 12	½	29
Drawing II	10, 11, 12	½	29
Metals & Jewelry II	10, 11, 12	½	29
Painting II	10, 11, 12	½	29
Sculpture II	10, 11, 12	½	29
AP Studio Art	11, 12	½ - 1	29
AP Art History	11, 12	1	29

## **CERAMICS I**

½ credit

**PREREQUISITES:** Grades 9-12

1 trimester

**COURSE CONTENT:** This class will be geared towards creating three-dimensional works out of clay and ceramic material. Particular attention is paid to the characteristics of the raw materials, their transformation under heat, and the various methods used to create and finish projects. Students will explore various hand-building methods, glazing techniques, in addition to using the potter's wheel.

**OFFERED:** Trimesters 1 and/or 2

**STUDENT COSTS:** Sketchbook, and pencils will be required. Lab fee of \$10.00

## **DIGITAL PHOTOGRAPHY**

½ credit

**PREREQUISITES:** Grades 9-12

1 trimester

**COURSE CONTENT:** This course will expose students to the materials, processes, and artistic techniques of digital photography. Students will learn about the operation of a camera, composition, lighting techniques, depth of field, filters, camera angles, and careers in photography. As students advance, the instruction regarding the creative process becomes more refined, and students are encouraged to develop their own artistic style. Throughout the term, students will be exposed to the various careers connected to the field of photography.

**STUDENT COSTS:** Highly recommended that each student own their own digital camera or iPhone.

## **DRAWING I**

½ credit

**PREREQUISITES:** Grades 9-12

1 trimester

**COURSE CONTENT:** Drawing is the basic language of art. Students will use several media; pencil, charcoal, ink, computer software, pastels, and colored pencils. Subject matter will include – still life, human figure, landscape, wildlife, portraiture, and fantasy.

**STUDENT COSTS:** \$10.00 Lab Fee, Sketchbook and pencil required

**INTERIOR DESIGN**

½ credit

**PREREQUISITES:** Grades 9-12

1 trimester

**COURSE CONTENT:** This course will introduce housing needs and options of individuals and families at various stages of life. Additionally, this course will introduce students to the applied art and elements and principles of design by creating effective interior and exterior spaces. Students will learn architectural styles, furnishing to create a functional space, and explore color as it relates to mood for that space. Activities include creating room models, design inspiration boards, learning design software, and field trips.

**STUDENT COSTS:** \$5.00 for paints and other supplies needed for projects.

**INTRODUCTION TO GRAPHIC ARTS**

½ credit

**PREREQUISITES:** Grades 10-12

1 trimester

**COURSE CONTENT:** This course uses a project-based approach. Each project has phases that follow a design and development process, from project planning and analysis to evaluation and distribution. Students gain experience through real-world projects that help them better understand the roles and processes across a broad range of careers involving visual design. Students will use a vinyl cutter to produce designs for apparel, vehicles, and signage. They course will primarily focus on learning basic and intermediate skills in Adobe Illustrator.

**STUDENT COSTS:** \$25.00

**BEGINNING PHOTOSHOP**

½ credit

**PREREQUISITES:** Grades 9-12

1 trimester

**COURSE CONTENT:** Use Adobe Photoshop's basic tools, palettes, functions and techniques for creating and editing pixel-based images. Students complete hands-on tutorials that apply Photoshop's basic tools and features to illustrate fundamental pixel-based image construction and editing techniques. Students will have the opportunity to earn credit at Moraine Park Technical College. **This course is a dual credit course and students may receive 3 credits at Moraine Park Technical College if successfully completed.**

**METALS/JEWELRY I**

½ credit

**PREREQUISITES:** Grades 9-12

1 trimester

**COURSE CONTENT:** This course will apply art and design principles to the creation of jewelry. This is a high paced course in which students will learn all the foundational techniques of metalsmithing including soldering.

**STUDENT COSTS:** \$10.00 Lab Fee, Sketchbook and pencil required.

**PAINTING I**

½ credit

**PREREQUISITES:** Grades 9-12

1 trimester

**COURSE CONTENT:** Painting builds on knowledge of color theory and composition. Students will explore traditional and experimental techniques in watercolor, acrylic, oil paint, and mixed media. Additionally, the course broadly looks at art history and appreciation of present and past master paintings.

**STUDENT COSTS:** Sketchbook, folder, white eraser, and pencils, will be required. Lab fee of \$10.00

**SCULPTURE I**

½ credit

**PREREQUISITES:** Grades 9-12

1 trimester

**COURSE CONTENT:** Introduction to the basic principles of three-dimensional design and expression. Students will work with a variety of tools and materials with an emphasis on observation, composition, and understanding of three-dimensional space. Students will apply techniques of abstraction and explore additive/subtractive sculpture.

**STUDENT COSTS:** \$10.00 Lab Fee, Sketchbook and pencil required

**WEB PAGE DESIGN**

½ credit

**PREREQUISITES:** Grades 9-12

1 trimester

**COURSE CONTENT:** The world has become digital with an estimate of over two billion web pages on the Internet. Our global market depends upon effective communication over the net. In this class, learn how to create web pages that will attract and hold the viewer's interest. This class will use software programs such as Weebly, iMovie, Photoshop, and Flash to design web pages. Students will also focus on effective web design while understanding basic HTML concepts. Join us for an exciting new adventure in creating web pages for school, personal, and business use.

**CERAMICS II**

½ credit

**PREREQUISITES:** Grades 10-12; Ceramics I

1 trimester

**COURSE CONTENT:** This course is offered to the serious students in ceramics. Students will continue to create three-dimensional works out of clay and ceramic material, while furthering technique on the potter's wheel. Projects will be of the advanced nature and focus on the use of fine craftsmanship and design.**OFFERED:** Trimester 3**STUDENT COSTS:** Sketchbook and pencils will be required. Lab fee of \$10.00**DRAWING II**

½ credit

**PREREQUISITES:** Grades 10-12; Drawing I

1 trimester

**COURSE CONTENT:** Drawing II reinforces the elements and principles of design through more complex compositions and drawing techniques. Subject matter may include figures (realistic and abstract), fantasy, portraiture, environments, animal portraits, and still life. These projects will incorporate various media.**STUDENT COSTS:** Sketchbook and pencil required. Lab fee of \$10.00**METALS/JEWELRY II**

½ credit

**PREREQUISITES:** Grades 10-12; Metals & Jewelry I

1 trimester

**COURSE CONTENT:** This course is a continuation of skills and techniques developed in Metals & Jewelry I. Students will explore the application of design to advanced functional jewelry and developing an artistic style.**STUDENT COSTS:** \$10.00 Lab Fee, Sketchbook and pencil required.**PAINTING II**

½ credit

**PREREQUISITES:** Grades 10-12; Painting I

1 trimester

**COURSE CONTENT:** This class is geared towards the student who wishes to pursue the techniques and concepts learned in Painting I. Students will have the opportunity to work larger and experiment with different techniques.

Exploration of artistic style and development of oil painting technique will be encouraged.

**STUDENT COSTS:** \$10.00 Lab Fee, Sketchbook and pencil required**SCULPTURE II**

½ credit

**PREREQUISITES:** Grades 10-12; Sculpture I

1 trimester

**COURSE CONTENT:** This course is a continuation of skills developed in Sculpture I. Students will be able to develop artistic style and interest through the continued exploration of dimensional works in traditional and untraditional art materials. Additionally, students will learn about historical and contemporary sculptors.**STUDENT COSTS:** \$10.00 Lab Fee, Sketchbook and pencil required**AP STUDIO ART**

½ credit per trimester

**PREREQUISITES:** Grades 11-12; & completion of two or more art courses.

1 or 2 trimesters

Students will need to have successfully completed two of the following courses prior to taking AP Studio Art: Drawing I, Drawing II, Painting I, and Painting II.

**COURSE CONTENT:** The AP Studio Art course and portfolios are designed for students who are seriously interested in studying the application of art after high school. This course involves a high level of commitment and energy. Students are expected to work beyond scheduled class time. It is recommended that students have previous training in art. AP Studio Art is not a course based on a written examination; instead students submit portfolios for evaluation at the end of the school year to the College Board and the Advance Placement Program. **Areas of focus are: drawing and painting.****OFFERED:** Trimesters 1, and 2. **Students can enroll for one or two tri's.****STUDENT COSTS:** \$10.00 Lab Fee per term, Sketchbook and pencil required**AP ART HISTORY**

1 credit

**PREREQUISITES:** Grades 11-12

2 trimesters

**COURSE CONTENT:** AP Art History engages the student at the same level as an introductory college art history survey course. This course is designed to give students the opportunity to discover, appreciate, and acquire knowledge of art history through the ages, from the Paleolithic era to contemporary times. Students will develop skills in visual, contextual, and comparative analysis, while expanding knowledge in history, geography, politics, religion, languages and literature. A variety of art media and styles will be studied as the students look at architecture, manuscripts, painting, drawing, printmaking, and sculpture, as a reflection of a given civilization and time period. Students will be prepared and have the opportunity to take the AP exam in the spring of the school year.

# MATHEMATICS

Course Title	Open to	Credit	Page
Algebra A & B	9		
1	30		
Geometry A & B	9, 10	1	30
College Math A & B	10, 11	1	30
Algebra II A & B	10, 11, 12	1	31
Intermediate Algebra A & B	10, 11, 12	1	31
Functions, Statistics, and Trigonometry A & B	11, 12	1	31
Pre-Calculus A & B	11, 12	1	31
Advanced Placement Statistics A & B	11, 12	1	31
Advanced Placement Calculus AB A & B	11, 12	1	32
Advanced Placement Calculus BC	11, 12	½	32

## **ALGEBRA A & B**

1 credits

**PREREQUISITES:** Recommendation of 8<sup>th</sup> grade instructor or transfer student

2 trimesters

**COURSE CONTENT:** This freshman level course stresses the study of mathematical structure and the development of our real number system. Algebra is the necessary foundation for all higher mathematics, and will supply you with the basic mathematical concepts needed for career in Chemistry, Physics, Biology, Nursing, Business, and many other fields. Units of study include an Introduction to Algebra (variables, equations, symbols, and applications), properties of real numbers, computations (using symbols and understanding the processes) with real numbers, equation solving, polynomials, problem solving, linear equations and systems, functions, inequalities, rational and irrational numbers, quadratic functions, and probability and statistics.

**STUDENT COSTS:** Students need a scientific calculator with the ability to calculate trigonometric functions. A good example would be the TI-30X IIS Scientific Calculator (approximate cost is \$20).

## **GEOMETRY A & B**

1 credit

**PREREQUISITES:** Algebra I

2 trimesters

**COURSE CONTENT:** This course will extend students' geometric experiences from the middle grades, having them explore more complex geometric situations and deepen their explanations of relationships through reasoning and proof. Students will learn to use the classical tools of geometry along with available technology to perform geometric investigations. Units of study include triangle congruence, similarity, trigonometry, three-dimensional figures, coordinate geometry, circles, and probability.

**STUDENT COSTS:** Students need a scientific calculator with the ability to calculate trigonometric functions. A good example would be the Texas Instruments TI-30X IIS Scientific Calculator (approximate cost of \$20). Although students would not need all of the features in this course, it would be recommended that students purchase a graphing calculator at this time as they will be using them in future courses and would benefit from another year of use.

Recommended graphing calculators are the Texas Instruments TI-Nspire CX non-CAS (approximately \$130) or the Texas Instruments TI-84 Plus (approximately \$100).

### **COLLEGE MATH A & B**



1 credit  
2 trimesters

**PREREQUISITES:** Geometry

**COURSE CONTENT:** This course is designed to review and develop fundamental concepts of mathematics pertinent to the areas of: (1) arithmetic and algebra, (2) geometry and trigonometry, and (3) probability and statistics. Special emphasis is placed on problem solving, critical thinking and logical reasoning, making connections, and using calculators. Students who pass this class with a B or better will also earn 3 math credits from MPTC. **This is a dual credit course with Moraine Park Technical College for 2 credits upon completion with a C or better.**

**STUDENT COSTS:** Students need a scientific calculator with the ability to calculate trigonometric functions among other operations. A good example would be the Texas Instruments TI-30X IIS Scientific Calculator (approximate cost of \$20).

### **ALGEBRA II A & B**



1 credit  
2 trimesters

**PREREQUISITES:** Geometry

**COURSE CONTENT:** Units of study include polynomials and factoring, rational expressions, irrational and complex numbers, quadratic equations and functions, linear systems and numerical methods, analytic geometry, logarithms, exponential functions, sequences, and series. This course is required for admission to many universities.

**STUDENT COSTS:** Graphing calculator. Although any calculator TI-83 or better will work, the math department recommends the Texas Instruments TI-Nspire CX non-CAS (approximately \$130) or the Texas Instruments TI-84 Plus (approximately \$100)

### **Intermediate Algebra A & B**

**PREREQUISITES:** Algebra II or teacher recommendation

**COURSE CONTENT:** This course is designed for students who plan on attending a technical college after high school. This course is a dual credit, meaning students who successfully complete it with a C or better (on the Technical College grading scale where a C is 80% or higher) will earn 1 high school credit and 3 credits at the technical college. This course examines solving linear, quadratic and rational equations; graphs functions; rearranges formulas; solves systems of equations; performs operations on polynomials; and solves problems with percents and proportions. Students apply these skills and operations to technical problems. **This is a dual credit course with Moraine Park Technical College for 2 credits upon completion with a C or better.**

**STUDENT COSTS:** Students need a scientific calculator with the ability to calculate trigonometric functions among other operations. A good example would be the Texas Instruments TI-30X IIS Scientific Calculator (approximate cost of \$20). Students also may wish to purchase a copy of the workbook style text in order to be able to write in it.

### **FUNCTIONS, STATISTICS, AND TRIGONOMETRY**

1 credit

**PREREQUISITES:** Algebra II

2 trimesters

**COURSE CONTENT:** Functions, Statistics, and Trigonometry is a course designed for students who have taken Algebra II, but are not planning on pursuing either AP Statistics or Precalculus. The course will include all function families, especially trigonometric, and also elementary statistics. This course replaces probability and statistics with greater focus on preparing students for all math at the postsecondary level.

**STUDENT COSTS:** Graphing calculator. Although any calculator TI-83 or better will work, the math department recommends the Texas Instruments TI-Nspire CX non-CAS (approximately \$130) or the Texas Instruments TI-84 Plus (approximately \$100).

### **PRE-CALCULUS A & B**

1 credit

**PREREQUISITES:** Algebra II or Technical Math I and II

2 trimesters

**COURSE CONTENT:** Students will spend one term studying the twelve basic functions, their properties and how we can use them. The other term will be spent studying trigonometry, including the 6 basic trig functions, Law of Sines and Cosines and using trigonometric identities. We will also briefly touch on vectors and their applications.

**STUDENT COSTS:** Graphing calculator. Although any calculator TI-83 or better will work, the math department recommends the Texas Instruments TI-Nspire CX non-CAS (approximately \$130) or the Texas Instruments TI-84 Plus (approximately \$100).

### **ADVANCED PLACEMENT STATISTICS A & B**

1 credit

**PREREQUISITES:** Pre-Calculus A & B

2 trimesters

**COURSE CONTENT:** The purpose of the AP course in statistics is to introduce students to the major concepts and tools for collecting, analyzing and drawing conclusions from data. Students are exposed to four broad conceptual themes.

1. Exploring Data: Describing patterns and departures from patterns
2. Sampling and Experimentation: Planning and conducting a study
3. Anticipating Patterns: Exploring random phenomena using probability and simulation
4. Statistical inference: Estimating population parameters and testing hypotheses.

Students who successfully complete the course and exam may receive credit, advanced placement or both for a one-semester introductory college statistic course. Students will also be expected to complete precalculus before enrolling in the course.

**STUDENT COST:** Graphing calculator. Although any calculator TI-83 or better will work, the math department recommends the Texas Instruments T1-Nspire CX non-CAS (approximately \$130) or the Texas Instruments TI-84 Plus (approximately \$100).

**ADVANCED PLACEMENT CALCULUS AB A & B**

1 credit

**PREREQUISITES:** Pre-Calculus A & B

2 trimesters

**COURSE CONTENT:** Calculus is a branch of mathematics which provides methods for solving two classes of problems. The first involves finding the rate at which a variable quantity is changing. The second deals with finding a function when its rate of change is given. Units of study include analytic preparation, functions, limits, derivatives, applications of derivatives, integration, and applications of the definite integral. This course will prepare students for the AP Calculus AB exam. If students earn a score of 3 or better on the exam, they may earn college credit depending on where they enroll.

**STUDENT COSTS:** Graphing calculator. Although any calculator TI-83 or better will work, the math department recommends the Texas Instruments T1-Nspire CX non-CAS (approximately \$130) or the Texas Instruments TI-84 Plus (approximately \$100)

**ADVANCED PLACEMENT CALCULUS BC**

½ credit

**PREREQUISITES:** Successful completion of AP Calculus AB A & B

1 trimesters

**COURSE CONTENT:** This course is a continuation and extension of Advanced Placement Calculus AB. Students completing this course will be prepared to take the AP Calculus BC exam. If students earn a score of 3 or better on the exam, they may earn college credit depending on where they enroll.

**STUDENT COSTS:** Graphing calculator. Although any calculator TI-83 or better will work, the math department recommends the Texas Instruments T1-Nspire CX non-CAS (approximately \$130) or the Texas Instruments TI-84 Plus (approximately \$100)

# HEALTH & PHYSICAL FITNESS

Course Title	Open to	Credit	Page
Physical Education 9	9	½	33
Health Education	9, 10, 11, 12,	½	33
Physical Education 10	10	½	33
Performance Fitness	11, 12	½	34
Adventures in Fitness	11 12	½	34
Dance	11, 12	½	34
Fit for Life	11, 12	½	34
Lifetime Fitness	11, 12	½	34
Wellness & Community Health Connections	11, 12	½	35

Students will need to successfully complete 1.5 credits of Physical Education for graduation from Waupun Area Jr/Sr High School. During a student’s 9<sup>th</sup> grade year, a student must take 1 trimester of Personal Fitness-Physical Education. During a student’s 10<sup>th</sup> & 11<sup>th</sup> grade years, a student must take at least one trimester of Physical Fitness Education class from the elective list during each of these years. Sophomores, Juniors & Seniors may elect to take additional trimesters of Physical Fitness Education. Courses may not be repeated.

It is required that during a student’s 9<sup>th</sup> grade year, they take Health Education. Completion of a Health course is a state requirement.

## **PHYSICAL EDUCATION 9**

½ credit

**PREREQUISITES:** Grade 9 Required

1 trimester

**COURSE CONTENT:** This course will involve students in a wide variety of fitness activities which promote the Physical Fitness Principles. Both the health-related and skill-related components of fitness will be a course focus while developing Lifetime Fitness interests. Students will be assessed using the Fitnessgram health-related fitness assessment tool and learn how to analyze their data to better improve their own personal health. Students will also develop an understanding and the application procedures for the FITT formula to personal exercise. Students will learn to embrace an active lifestyle and how to promote health enhancing fitness for themselves and others.

## **HEALTH EDUCATION – “Healthy Teen Habits”**

½ credit

**PREREQUISITES:** Grades 9 Required

1 trimester

**COURSE CONTENT:** This course is designed to teach beneficial knowledge and skills that encourage students to think critically about how decisions they make will affect their lives today and in the future. Students will be given the opportunity to investigate, discuss, understand, and apply current health concepts and issues which will lead to a healthier, happier life. This is an interactive class that you will enjoy . . . because it is about YOU! Course topics include: Mental and Emotional Health; Family and Social Health; Growth and Development; Nutrition; Personal Health and Physical Activity; Alcohol, Tobacco, and Other Drugs; Communicable and Chronic Diseases; Consumer and Community Health; Environmental Health; Injury Prevention and Safety.

**STUDENT COST:** CPR/AED fee

## **PHYSICAL EDUCATION 10**

½ credit

**PREREQUISITES:** Grades 10 Required

1 trimester

**COURSE CONTENT:** This Physical Education course is designed to lead the students into a healthy lifestyle that they can create and perform on their own. This course will fill them with all kinds of enjoyable activities that they can perform over their lifetime leading them into a world of health and happiness. It may include such activities as volleyball, badminton, both outdoor and indoor sports, proper weightlifting techniques, a variety of aerobic workouts from yoga to high intensity cardio activities. It will make sure they know how to work some of the new technology tools like heart rate monitors, pedometers, etc. We hope this course is an enjoyable one so that they continue to perform these activities throughout their lives

**PERFORMANCE FITNESS**

½ credit

**PREREQUISITES:** Grades 11-12

1 trimester

**COURSE CONTENT:** Are you looking for ways to stay in shape during the off-season? Are you a highly self-motivated person looking to maintain/enhance athletic ability? This course is for anyone that enjoys the “high” achieved through exercise! Expect to be challenged! In addition to the 5 health-related parts of fitness, this course will concentrate on enhancing/improving the 6 skill-related parts of fitness. (Agility, balance, coordination, power, speed, and reaction time). Student’s will also explore the dimensions of sports nutrition and athletic performance. Activities will include: plyometrics, speed ladders, power training, medicine balls, core training, circuit training, cross training, flexibility training, speed ropes, etc. Students will be assessed using the Fitnessgram health-related fitness tool.

**STUDENT COSTS:** Field trip fees.**ADVENTURES IN FITNESS**

½ credit

**PREREQUISITES:** Grades 11-12

1 trimester

**COURSE CONTENT:** This course will have students exploring ways to enhance fitness while participating in Experiential Based Adventure Education activities. Students will improve their skills of: problem solving, cooperation, communication, team building, etc. Students will participate in cooperative games, problem solving initiatives, as well as have the opportunity to experience the low and high indoor/outdoor Rope Challenge Course! Climb the Vertical Playpen, jump from the Power Perch, ride the Giant Swing, and more! Students in this course will be taught proper use and maintenance of RCC equipment as well as the skills of knot tying and belaying. Students will be assessed using the Fitnessgram health-related fitness tool.

**STUDENT COSTS:** Field trip fees.**DANCE YOUR WAY TO FITNESS**

½ credit

**PREREQUISITES:** Grades 11-12

1 trimester

**COURSE CONTENT:** This course will use a variety of dance styles/techniques to assist students in achieving and maintaining a health-enhancing level of physical fitness. This course will demonstrate to students the value of physical activity for health, enjoyment, challenges, self-expression and social interaction. Dances taught will include Ethnic Dances, Country, Folk, Hip-Hop, Salsa, Line Dances, Swing, etc. Students will be assessed using the Fitnessgram health-related fitness tool.

**STUDENT COST:** Field trip fees**FIT FOR LIFE**

½ credit

**PREREQUISITES:** Grades 11-12

1 trimester

**COURSE CONTENT:** This course is for those that would like to achieve the benefits of a “personal trainer” without incurring the cost!! This course will expose students to lifestyle enhancement equipment they may come in contact with after leaving high school and pursuing fitness activities on their own. (examples: Health Clubs, YMCA’s, Fitness Centers, personal purchases, etc.) The students will be introduced to the nutritional skills one should demonstrate for their body to perform proficiently. The following will be used to assist students in reaching their health-related fitness goals; Step benches, X-er Slides, Stability Balls, Geo-Mats, a variety of fitness related tapes, Rollerblades, Resistance tubing, etc. Students will be assessed using the Fitnessgram health-related fitness tool.

**STUDENT COSTS:** Field trip fees.**LIFETIME FITNESS**

½ credit

**PREREQUISITES:** Grades 11-12

1 trimester

**COURSE CONTENT:** This course will focus on health-related & skill related personal fitness by utilizing activities that incorporate individual, dual and team concepts. The fitness activities for this course will prepare students for lifetime fitness. Unit possibilities may include, but are not limited to the following: Flag football, soccer, speedball, tag rugby, softball, Lacrosse, ultimate golf, cricket, frisbee games, fitness, and other low-organization ball games. Students will be assessed using the Fitnessgram health-related fitness tool.

**STUDENT COSTS:** Field trip fees.

**WELLNESS & COMMUNITY HEALTH CONNECTIONS**

½ credit

**PREREQUISITES:** Grades 11, 12, Satisfactory Completion of Health Education

1 trimester

**COURSE CONTENT:** This Health Education course is open to juniors and seniors who have successfully completed Healthy Teen Habits with a C or better. (Healthy Teen Habits is a required freshman health education course.)

Wellness & Community Health Connections is an experience and discussion based class that uses a variety of activities, projects and authentic learning opportunities to discover the world of health. This course provides curriculum and methodology that both challenge and enhance student awareness of strategies for prevention and intervention regarding their personal health. This trimester course will focus on the issues/challenges that young adults face today. Students will analyze their personal health choices and risks based on their decision making practices. The curriculum is composed of three major content areas according to the three aspects of health; mental, physical and social health. Topics include but are not limited to: building healthy communication skills, understanding health literacy, developing a personal plan of action, developing or refreshing CPR/AED training, recognizing addictive behaviors, relationship responsibilities including protecting oneself from dating violence, and basic human sexuality. Emphasis is placed on responsible decision making skills, which accompany factual information and student group analysis of health issues. Guest speakers from a variety of health care fields, addictions, and other life experiences are incorporated into the curriculum to give it authenticity. The entire course-work leads to a class generated community service project.

**STUDENT COSTS:** CPR/AED fee & field trip fees

# SCIENCE

Course Title	Open to	Credit	Page
Biology A & B	9	1	36
Earth Science A & B	9, 10, 11, 12	1	36
Principles of Biomedical Sciences A & B **	9, 10, 11, 12	1	37
Chemistry A & B	10	1	37
Botany/Zoology	10, 11, 12	½	37
Environmental Science	10, 11, 12	½	37
Human Anatomy/Physiology A & B	10, 11, 12	1	37
Human Body Systems A & B **	10, 11, 12	1	37
Physics A & B	11, 12	1	38
AP Chemistry A, B, C	11, 12	1.5	38
Medical Explorer ##	11, 12	½	38

\*\* Project Lead the Way (PLTW) Biomedical Sciences Class

## Health Science Academy-specific action learning course – **Application process for admission**

## **BIOLOGY A & B**

1 credit

**PREREQUISITES:** Grade 9

2 trimesters

**COURSE CONTENT:** Biology is the study of life. Biology A: ecology, cell structure and function, energy for life. Biology B: cell division, genetics and heredity, biological evolution and natural selection, taxonomy, and a brief introduction to the human body.

## **EARTH SCIENCE A & B**

1 credit

**PREREQUISITES:** Grades 9-12

2 trimesters

**COURSE CONTENT A:** The topics of geology and how earth processes change the earth will be studied. The course will attempt to give the student an understanding of the processes affecting the earth and their relationship to the student's life.

**COURSE CONTENT B:** Topics of study include earth history, plate tectonics, earthquakes, volcanism, and current environmental topics.

**STUDENT COSTS:** A field trip to Devil's Lake requires a bus fee that varies with student enrollment

### **OVERVIEW OF PLTW BIOMEDICAL SCIENCES**

The **PLTW Biomedical Sciences (BMS)** program is a sequence of courses, which follow a proven hands-on, real-world problem-solving approach to learning. Students explore the concepts of human medicine and are introduced to topics such as physiology, genetics, microbiology, and public health. Through activities, like dissecting a heart, students examine the processes, structures and interactions of the human body – often playing the role of biomedical professionals. They also explore the prevention, diagnosis and treatment of disease, working collaboratively to investigate and design innovative solutions to the health challenges of the 21<sup>st</sup> century such as fighting cancer with nanotechnology. Throughout BMS, students acquire strong teamwork and communication practices, and develop organizational, critical-thinking, and problem-solving skills. Along the way students investigate a variety of careers in biomedical sciences. BMS courses complement traditional science courses and serve as the foundation for STEM-centered or specialized academics.

**PRINCIPLES OF THE BIOMEDICAL SCIENCES A & B (PBS)**

1 credit

**PREREQUISITES:** 9 - 12

2 trimesters

**COURSE CONTENT:** Students investigate various health conditions including heart disease, diabetes, sickle-cell disease, hypercholesterolemia, and infectious diseases. They determine the factors that led to the death of a fictional person, and investigate lifestyle choices and medical treatments that might have prolonged the person's life. The activities and projects introduce students to human physiology, medicine, and research processes. This course provides an overview of all the courses in the Biomedical Sciences program and lays the scientific foundation for subsequent BMS courses. (This course is designed for 9<sup>th</sup> or 10<sup>th</sup> grade students (but open to 11<sup>th</sup> and 12<sup>th</sup> grade students as well.)

**CHEMISTRY A & B**

1 credit

**PREREQUISITES:** Grades 10

2 trimesters

**COURSE CONTENT:** Chemistry is the science of matter at or near the atomic scale. We will observe and interact with the properties of matter, as well as the transformation and interactions of matter and energy. Chemistry primarily studies atoms and collections of atoms such as molecules, crystals, and metals that make up ordinary matter. Central to chemistry is the interaction of one substance with another, such as in a chemical reaction where a substance or substances are combined into others. Emphasis will be on a variety of fundamental chemistry concepts that will acquaint students with the physical and chemical world around them, as well as guide them to an understanding of how, and why, chemicals react. This will include utilizing and developing problem solving techniques, critical thinking skills, and laboratory techniques. In the first term, we will discuss atomic history, modern chemistry, periodicity, chemical nomenclature, chemical bonding, and chemical reactions. In the second term, we will focus our learning on chemical quantities, stoichiometry, solutions, states of matter, and thermochemistry.

**BOTANY/ZOOLOGY**

½ credit

**PREREQUISITES:** Grades 10-12; Biology

1 trimester

**COURSE CONTENT:** Botany portion: taxonomy, anatomy and physiology of the nonvascular plants, seedless vascular plants, and the seeded plants. Zoology portion: taxonomy, anatomy and physiology of the chordates, with the main emphasis on the vertebrates: fish, amphibians, reptiles, birds, and mammals. Ecological concepts will be reviewed and cycled through all portions of the class.

**ENVIRONMENTAL SCIENCE**

½ credit

**PREREQUISITES:** Grades 10-12; Biology

1 trimester

**COURSE CONTENT:** Environmental Science is a course designed to explain how humans have disrupted the environment and propose ways that we can rectify those problems. Major topics include maintaining ecology, maintaining biodiversity, and managing our resources.

**HUMAN ANATOMY/PHYSIOLOGY A & B**

1 credit

**PREREQUISITES:** Grades 10-12; Biology

2 trimesters

**COURSE CONTENT:** Human Anatomy and Physiology will address the language unique to anatomy, physiology and medicine; apply, in great detail, biological concepts to the human body systems: skeletal, muscular, nervous, endocrine, circulatory, respiratory, digestive, and reproductive systems; along with diseases/treatments of the body systems.

**HUMAN BODY SYSTEMS A & B (HBS)**

1 credit

**PREREQUISITES:** Principles of the Biomedical Sciences (PBS)

2 trimesters

**COURSE CONTENT:** In the second course of the three BMS course sequence, students examine the interactions of human body systems as they explore identity, power, movement, protection, and homeostasis. Students design experiments, investigate the structures and functions of the human body, and use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration. Exploring science in action, students will build organs and tissues on a skeletal mannequin, work through interesting real world cases, and demonstrate the roles of a variety of biomedical professionals to solve various medical mysteries. This course is designed for 10<sup>th</sup>, 11<sup>th</sup>, or 12<sup>th</sup> grade students. (Open to any student who has already successfully completed PBS.)



**PHYSICS A & B**

1 credit

**PREREQUISITES:** Grades 11-12; Algebra II or concurrently enrolled

2 trimesters

**COURSE CONTENT:** Physics is a study of the natural phenomenon and laws of nature. The specific topics investigated in Physics are: measurement – large and small, motion and Newton’s laws, vectors and force, vectors and motions, momentum and its conservation, projectile motion, universal gravitation, work and power and the conservation of energy. The 2<sup>nd</sup> part of this course will consist of the following general topics: heat and the calorimeter, kinetic theory, waves and energy, optics, the nature of light, quantum theory, the nucleus and radioactivity, the stellar life cycle and Kepler’s laws of planetary motion. If time and material permit, additional topics will be included.

**STUDENT COSTS:** Scientific calculator is required.

**AP CHEMISTRY**

1½ credit

**PREREQUISITES:** Grades 11-12; Biology, Chemistry, & Algebra II

3 trimesters

**COURSE CONTENT:** The AP Chemistry course is designed to be the equivalent of the general chemistry course usually taken during the first college year. Students cultivate their understanding of chemistry through inquiry-based investigations, as they explore topics such as: atomic structure, intermolecular forces and bonding, chemicals reactions, kinetics, thermodynamics, and equilibrium. This course requires that 25 percent of the instructional time provides students with opportunities to engage in laboratory investigations. This includes a minimum of 16 hands-on labs, at least six of which are inquiry based. **Students who take this course are encouraged to take the AP Chemistry Exam. For students who pass the spring AP Exam, a score of 3, 4, or 5 will enable them to take, as a freshman, a higher level chemistry and receive college credit for the work done here. (Check with your specific college to learn how your AP Exam score will be granted credit.)**

**STUDENT COSTS:** Scientific calculator is required.

**MEDICAL EXPLORER**

½ credit

Medical Explorers is a Health Science Academy – Specific Action Learning course

1 trimester

**PREREQUISITES:** Successful completion, or concurrent enrollment in, at least one of the following Health Science Academy courses: Human Anatomy & Physiology, Medical Terminology, Human Body Systems (PLTW Biomedical Sciences Year 2 class). **To register for this class, students must see Mr. Burchardt for an application.** Students will attend an orientation session and be expected to adhere to the dress code, attendance requirements, and cell phone limitations placed forth by Waupun Memorial Hospital staff.

**COURSE CONTENT:** Medical Explorer is a Health Sciences Career Exploration cooperative effort between Waupun Area Jr/Sr High School and Waupun Memorial Hospital. The course will consist of department rotations at Waupun Memorial Hospital and supervised individual work time at the Waupun Area Jr/Sr High School, along with scheduled meeting time with the Health Sciences mentor. Department rotations will include: Medical/Surgery, Emergency Department, Respiratory Therapy, Social Work, Physical Therapy, Medical Imaging, Clinic, Lab, Registration, and Wellness. (Rotations may change or be added to at discretion of WMH staff). In school building work will consist of work time devoted to the written and presentation requirements: journaling: research and writing a paper; designing (and ultimately presenting) a summary presentation for the hospital staff. Additional elective opportunities may exist such as: EMT shadow, shadowing an athletic trainer at events, clinic shadowing, CPR/First Aide training, lectures or presentations related to the health field, community outreach activities.

# SOCIAL STUDIES

Course Title	Open to	Credit	Page
History of Democracy	9	½	39
World Geography	9	½	39
U.S. History A & B	10	1	39
American Problems	10, 11, 12	½	39
Current Events and Issues	10, 11, 12	½	40
Global Historical Connections A & B	11	1	40
AP Psychology /Psychology 102 A & B	11, 12	1	40
AP US Government & Politics	11, 12	1	40
AP US History A, B, C	11, 12	1.5	40
Economics	11, 12	½	41
Social Issues	11, 12	½	41
Introduction to Psychology A & B	11, 12	1	41
Senior Democratic Seminar	12	½	41

## **HISTORY OF DEMOCRACY**

½ credit

**PREREQUISITES:** Grade 9

1 trimester

**COURSE CONTENT:** This is a course that all freshmen are required to pass and is the foundation for the Senior Democratic Seminar. Its intent is to introduce students to the many aspects of civics, especially government, the Constitution, and the founding of our country. Critical thinking and problem solving skills will be emphasized to stimulate students to analyze and evaluate the diverse nature of civics. An emphasis will also be placed on Current Events. Students must pass History of Democracy in order to graduate from Waupun Area High School.

## **WORLD GEOGRAPHY**

½ credit

**PREREQUISITES:** Grade 9

1 trimester

**COURSE CONTENT:** This is a course that all freshmen are required to pass. Students will be introduced to many aspects of geography with a focus on cultural geography. An emphasis will also be placed on Current Events. Critical thinking and problem solving skills will be emphasized to stimulate students to analyze and evaluate the diverse nature of Geography. Students must pass World Geography in order to graduate from Waupun Area High School.

## **US HISTORY A & B**

1 credit

**PREREQUISITES:** Grade 10; fulfills the US History requirement.

2 trimesters

**COURSE CONTENT:** This course examines the History of the United States starting with a review unit covering the period of Exploration to the Civil War. Tri A continues onward and is completed ending with WWI. Tri B starts out with a unit on the 1920's and is completed by the study of events in the late 20<sup>th</sup> Century. The emphasis in both terms is on skill development through engaging in various eras of U.S. History. Students must pass either U.S. History A & B or two of three Advanced Placement U.S. History trimesters in order to graduate from Waupun Area High School.

## **AMERICAN PROBLEMS**

½ credit

**PREREQUISITES:** Grades 10-12 (Sophomores should have a GPA of 3.0 or higher)

1 trimester

**COURSE CONTENT:** This elective course is recommended to all juniors and seniors and is concerned with current topics confronting American society, including the criminal justice system, the education system, and many other controversial issues. A variety of sources are used including face-to-face discussion with prisoners from the Burke Center, readings, videos, discussions, debates, websites, and in class speakers. This class focuses on student involvement in the classroom.

**CURRENT EVENTS & ISSUES**

½ credit

**PREREQUISITES:** Grades 10-12 (Sophomores should have a GPA of 3.0 or higher)

1 trimester

**COURSE CONTENT:** This elective course is recommended to all juniors and seniors and focuses on events and issues that are currently making news headlines in our society, local, state, national, and international issues will be discussed, analyzed, debated, researched, and investigated. Various news media sources will be used such as: television, newspapers, magazines, and the internet. A face-to-face discussion with prisoners from the Burke Center is part of the curriculum. This course will have a n emphasis on student interaction in class discussions.

**GLOBAL HISTORICAL CONNECTIONS A & B**

1 credit

**PREREQUISITES:** Grade 11

2 trimesters

**COURSE CONTENT:** This class will help you gain a greater understanding of the world. You will analyze and evaluate people, places, and historical events in history and create connections to the present. We will look at philosophies, thoughts, and actions that have left an impact on today and the future. History will become relevant to your everyday life. Students must pass Global Historical Connections A & B in order to graduate from Waupun Area High School.

**AP UNITED STATES GOVERNMENT & POLITICS**

1 credit

**PREREQUISITES:** Grades 11-12

2 trimesters

**COURSE CONTENT:** Recommended for college-bound students, especially those planning for liberal arts degrees or careers in law or business. This course will give students an analytical perspective on government and politics. It includes both the study of general concepts used to interpret U.S. government and politics and the analysis of specific examples. It also requires familiarity with the various institutions groups, beliefs, and ideas that constitute U.S. government and politics. Students will be able to interpret basic data and explain typical patterns of political processes and behavior and their consequences. **For students who pass the spring AP Exam, a score of 3, 4, or 5 will enable them to take, as a freshman, a higher level course and receive college credit for the work done here. (Check with your specific college to learn how your AP Exam score will be granted credit.)**

**AP PSYCHOLOGY/PSYCHOLOGY 102 A & B**

1 credit

**PREREQUISITES:** Grades 11-12

2 trimesters

**COURSE CONTENT:** This course is recommended for college bound juniors and seniors. Students will be introduced to major subfields of psychology including consciousness, learning, memory, personality, abnormal psychology, research methods, perception, biological influences on behavior, therapy, motivation, developmental psychology, testing and individual differences, and social psychology. **For students who pass the spring AP Exam, a score of 3, 4, or 5 will enable them to take, as a freshman, a higher level course and receive college credit for the work done here. (Check with your specific college to learn how your AP Exam score will be granted credit.)** Psychology 102 is a UW-Green Bay course worth 3 undergraduate credits. **Student have to register and pay tuition to earn credits.**

**AP UNITED STATES HISTORY A, B, C**

1.5 credit

**PREREQUISITES:** Grades 11-12 3 Trimesters (need to have instructor's approval)

3 trimesters

**COURSE CONTENT:** This course is designed to encourage students to become apprentice historians who are able to use historical facts and evidence in the service of creating deeper conceptual understandings of critical developments in US History. This course is taught at the college level based on the College Board curriculum. Students will be helped to prepare for the Advanced Placement exam held in May. Most colleges and universities grant up to six college credits to students who achieve a passing grade on the AP exam. Classroom activities will include discussion seminars, debates, projects, performances, presentations, and analysis of outside readings and documents. Intensive reading. **For students who pass the spring AP Exam, a score of 3, 4, or 5 (based on specific college requirements) may earn from 3 to 6 college credits.**

**ECONOMICS**

½ credit

**PREREQUISITES:** Grades 11-12

1 trimester

**COURSE CONTENT:** This elective course is a study of how the economic system operates and the factors that can influence the economy. You will come away with a new perspective of our country. A variety of topics are studied including greed, money, the US's role in the world, as well as supply and demand. Readings, videos, websites, debates, and computer simulations are used throughout the tri. Students looking at some type of business major/minor in college should take this course.

**SOCIAL ISSUES**

½ credit

**PREREQUISITES:** Grades 11-12

1 trimester

**COURSE CONTENT:** This is a term course that is open to and recommended for all juniors and seniors. The first part of the course will study the basic concepts of Sociology. From there, controversial and thought provoking issues will be chosen and covered in depth. This course utilizes movies, video clips, websites and other media that will encourage discussion and will challenge students to examine their perspective on Social Issues.

**INTRODUCTION TO PSYCHOLOGY**

1 credit

**PREREQUISITES:** Grades 11-12

2 trimesters

**COURSE CONTENT:** This course is recommended for college and technical school bound juniors and seniors. Students will be introduced to major subfields of psychology including consciousness, learning, memory, personality, abnormal psychology, research methods, perception, biological influences on behavior, therapy, motivation, developmental psychology, testing and individual differences, and social psychology.

**SENIOR DEMOCRATIC SEMINAR**

½ credit

**PREREQUISITES:** Grades 12

1 trimester

**COURSE CONTENT:** This class can be described as an applied Service Learning course that will focus on the roles that young people have and must take to effect positive change. Students will help select areas of interest, conduct research based on their curiosities, and make practical plans to address problems that we care about. The focus of this class will be student involvement in taking action on solving present day problems. (Assessed as Pass/Fail)

# SPECIAL EDUCATION

Course Title	Open to	Credit	Page
IP Language Arts	9, 10, 11, 12	½	42
IP Math	9, 10, 11, 12	½	42

## **IP LANGUAGE ARTS**

½ credit

### **PREREQUISITES:**

3 trimesters

**COURSE CONTENT:** IP Language Arts students will build upon and master the learning targets assigned to 9-12<sup>th</sup> grade in the areas of reading, writing, language (vocabulary and conventions), speaking and listening. The targets will be approached through various activities using literature and informational text.

**SUPPLIES:** Notebook for daily Journal writing, folder, pen and pencil

## **IP MATH**

½ credit

### **PREREQUISITES:**

3 trimesters

**COURSE CONTENT:** IP Math class focuses on solving problems and communicating their reasoning to others. There are four units: Number Sense, Properties and Operations; Patterns, Functions and Algebraic Structures; Data Analysis and Probability; Shape Dimension and Geometric Relationships.

**SUPPLIES:** Notebook, folder, pencil, 4 operational calculator

# TECHNOLOGY

Course Title	Open to	Credit	Page
General Woodworking I	9, 10, 11, 12	½	43
General Woodworking II	9, 10, 11, 12	½	43
Home Maintenance	9, 10, 11, 12	½	43
Introduction to Engineering Design A & B	9, 10, 11, 12	1	44
Introduction to Warrior Fabrication	9, 10, 11, 12	½	44
Mechanical Design	9, 10, 11, 12	½	44
Small Engines/Transportation	9, 10, 11, 12	½	44
Advanced Small Engines	10, 11, 12	½	44
Metal Processing Technology I	10, 11, 12	½	45
Basic Welding Fabrication	10, 11, 12	½	45
Principles of Engineering A & B	10, 11, 12	1	45
Cabinet and Furniture Production	11, 12	½	45
Civil Engineering and Architecture (CEA)	11, 12	½	45
Computer Assisted Drafting & Machining	11, 12	½	45
Digital Electronics (DE) PLTW A & B	11, 12	1	46
Introduction to Auto	11, 12	½	46
Introduction to Building Trades I	11, 12	½	46
Metal Processing Technology II	11, 12	½	46
Advanced Welding Fabrication	11, 12	½	46
Warrior Fabrication	11, 12	1.5	46

## **GENERAL WOODWORKING I**

½ credit

**PREREQUISITES:** Grades 9-12

1 trimester

**COURSE CONTENT:** This course is designed to allow students to learn to safely use woodworking hand/power tools. Each student will learn to follow plans and build a series of projects that will allow them to gain basic skills in the use of this equipment. The machines that are used in this class include; table saw, jointer, planer, band saw, drill press, lathe, surface sander, sanders, power miter box, router, panel saw and scroll saw. Job opportunities related to the use of these skills will be studied.

**STUDENT COSTS:** \$25.00 or material cost

## **GENERAL WOODWORKING II**

½ credit

**PREREQUISITES:** Grades 9-12; General Woodworking I

1 trimester

**COURSE CONTENT:** An expansion of General Woodworking I, this course is designed to allow students to learn to safely use of woodworking power equipment and focuses on more extensive woodworking techniques. Each student will learn to follow plans and build a series of projects that will allow them to gain advanced skills in the use of this equipment.

**STUDENT COSTS:** \$30.00 or material cost

## **HOME MAINTENANCE**

½ credit

**PREREQUISITES:** Grades 9-12

1 trimester

**COURSE CONTENT:** This course is designed to provide the student practical knowledge in maintaining a home through repair and routine maintenance. Areas of focus include remodeling, renovating, electrical wiring and plumbing systems. Other areas of discussion and activity will include financing, renting, building codes, and ordinances.

**STUDENT COST:** \$15.00

**INTRODUCTION TO ENGINEERING DESIGN (IED) A & B**

½ credit

**PREREQUISITES:** Grades 9-12

1 trimester

**COURSE CONTENT:** Designed for 9<sup>th</sup> or 10<sup>th</sup> grade students, the major focus of IED is the design process and its application. Through hands-on projects, students apply engineering standards and document their work. Students use industry standard 3D modeling software to help them design solutions to solve proposed problems, document their work using an engineer's notebook, and communicate solutions to peers and members of the professional community.

**Successful completion of this course can qualify for college credit at MSOE.**

**STUDENT COSTS:** \$5.00**INTRODUCTION TO WARRIOR FABRICATIONS**

½ credit

**PREREQUISITES:** Grades 9-12

1 trimester

**COURSE CONTENT:** Do you want to use state-of-the-art equipment to design and build products? Would you like to develop the technological, problem solving and hands-on skills desired by employers? If your answer is yes, then this course is for you. When you take Intro to Warrior Fabrication, you will be introduced to computer-controlled production technologies such as large-format/sublimation/3D printers, lasers, CNC (Computer Numerical Control) routers, vinyl cutters, and milling machines. These will be used by you to transform a product idea into reality. Students will explore many interrelated career fields, including engineering, science, mathematics, art, graphic design, computer aided design (CAD), electronics, and entrepreneurship. This course is a prerequisite for Warrior Fabrication.

**MECHANICAL DESIGN**

½ credit

**PREREQUISITES:** Grades 9-12

1 trimester

**COURSE CONTENT:** Introduces computer-aided drafting (CAD) using the latest AutoCAD 2D software. Students develop skills in drawing setup and organization, drawing, editing objects, creating complex shapes, dimensioning, using text, display and layer control, using symbols, drawing techniques, plotting, 3-Dimensional Printing of Computer designs. No previous computer experience is required.

**SMALL ENGINES/TRANSPORTATION**

½ credit

**PREREQUISITES:** Grades 9-12

1 trimester

**COURSE CONTENT:** This course is designed to introduce students to the understanding of how small engines work, and the theory of small engines. Students will also learn the importance of transportation and its changes in history. Students will tear down and rebuild a single piston OHV small engine, and learn to troubleshoot problems. **This is a dual credit course with Moraine Park Technical College for 2 credits upon completion with a C or better.**

**STUDENT COSTS:** \$10.00**ADVANCED SMALL ENGINES**

½ credit

**PREREQUISITES:** Grades 10-12; Small Engines/Transportation

1 trimester

**COURSE CONTENT:** This course is designed to take students to the next step in small engines and transportation. Students will be designing, building, and troubleshooting to make a single passenger vehicle. This vehicle will be used in at least one high mileage vehicle competitions at the state level. The skills used in this course will include engine building, welding, electrical troubleshooting, and understanding fuel economy. Alternative Fuels will also be discussed.

**STUDENT COSTS:** \$15.00**BASIC WELDING FABRICATION**

½ credit

**PREREQUISITES:** Grade 10-12

1 trimester

**COURSE CONTENT:** Instruction and training in the art of welding to assemble or fabricate consumer goods. Types of welding covered are flat position: arc welding, oxyacetylene (OAW), shielded metal arc welding (SMAW), gas metal arc welding (GMAW), gas tungsten arc welding (GTAW). Also, Two cutting processes: oxyacetylene and plasma arc will be covered.

**STUDENT COSTS:** \$30.00

**METAL PROCESSING TECHNOLOGY I**

½ credit

PREREQUISITES: Grades 10-12

1 trimester

COURSE CONTENT: Exploratory type course offering students an opportunity to: gain conceptual knowledge in cutting, forming, fabrication, and finishing of metal as employed by the metalworking industry in the manufacture of consumer goods; secure some fundamental skills in using tools and machines of the metal working industry; develop a knowledge and appreciation of employment opportunities in the metalworking industry; develop a vocational interest.

STUDENT COSTS: \$15.00**PRINCIPLES OF ENGINEERING A & B (POE)**

1 credit

PREREQUISITES: Grades 10-12

2 trimesters

COURSE CONTENT: Designed for 10<sup>th</sup> or 11<sup>th</sup> grade students, this survey course exposes students to major concepts they'll encounter in a postsecondary engineering course of study. Topics include mechanisms, energy, statics, materials, and kinematics. They develop problem-solving skills and apply their knowledge of research and design to create solutions to various challenges, document their work and communicate solutions. **Successful completion of this course can qualify for college credit at MSOE.**

STUDENT COSTS: \$5.00**ADVANCED WELDING FABRICATION**

½ credit

PREREQUISITES: Grade 11, 12; Basic Welding Fabrication

1 trimester

COURSE CONTENT: Advanced instruction and training in the art of welding to assemble or fabricate consumer goods. Types of welding covered are advanced flat and out-of-position shielded metal arc welding (SMAW), gas metal arc welding (GMAW) stainless and aluminum, gas tungsten arc welding (GTSAW) stainless and aluminum, Flux-core welding, pipe welding and specialty weld joints. Welding machine maintenance and basic repair will also be discussed.

**The combination of this course and Basic Welding will be articulated with the Introduction to Welding Course, at Moraine Park Technical College for a total of 2 technical school credits.**

STUDENT COSTS: \$30.00**CABINET AND FURNITURE PRODUCTION**

½ credit

PREREQUISITES: Grades 11-12; General Woodworking I and II

1 trimester

COURSE CONTENT: This course builds on skills and knowledge acquired in General Woodworking. This skill and knowledge will be used to design and fabricate cabinet and furniture pieces. Cabinet making processes will be discussed and practiced.

STUDENT COSTS: Materials cost**CIVIL ENGINEERING AND ARCHITECTURE (CEA) PLTW**

½ credit

PREREQUISITES: Grades 11-12; Mechanical Design is recommended

1 trimester

COURSE CONTENT: Students learn about various aspects of civil engineering and architecture and apply their knowledge to the design and development of residential and commercial properties and structures. In addition, students use 3D design software to design and document solutions for major course projects. Students communicate and present solutions to their peers and members of a professional community of engineers and architects.

**COMPUTER AIDED DRAFTING & MACHINING (CAD/CAM)**

½ credit

PREREQUISITES: Grades 11-12

1 trimester

COURSE CONTENT: CAD/CAM provides students with the opportunity to use and apply the skills learned working with MasterCam software. Most of the time will be spent using computer numerical controlled machines such as routers, mills, and lathes. Students will be required to construct a computer generated drawing and then machine that part. Student projects will include name plaques, cribbage boards, pen sets, and other instructor approved projects. All student work will be completed in class using a MasterCam workstation and CNC machine, and 3-Dimensional Printing of Computer designs.

STUDENT COSTS: \$10.00

**DIGITAL ELECTRONICS (DE) PLTW A & B**

PREREQUISITES: Grades 11-12

1 credit

2 trimesters

COURSE CONTENT: Digital electronics is the foundation of all modern electronic devices such as mobile phones, MP3 players, laptop computers, digital cameras, and high-definition televisions. Students are introduced to the process of combinational and sequential logic design, engineering standards, and technical documentation. **Successful completion of this course can qualify for college credit at MSOE.**

STUDENT COSTS: \$15.00

**INTRODUCTION TO AUTO**

PREREQUISITES: Need a valid driver's license

½ credit

1 trimester

COURSE CONTENT: This course is designed to introduce students to basic auto repair, from changing all the different fluids, to completing brake replacements, and everything in between. Students will learn basic use of hand and power tools, including a simple plug-in scanner and the use of multimeters.

STUDENT COSTS: \$20.00 & parts cost

**INTRODUCTION TO BUILDING TRADES I**

PREREQUISITES: Grade 11, 12

½ credit

1 trimester

COURSE CONTENT: The first of three construction classes, this class focuses on basic construction standards and various trades/careers in the building construction industry. Students will design a house and construct it to a scale model size. Other areas of focus include acquainting the student with hand tools, power tools, measuring instruments and their uses. Blueprint reading, material estimating, construction safety and surveying will also be covered in this course.

STUDENT COSTS: \$10.00

**METAL PROCESSING TECHNOLOGY II**

PREREQUISITES: Grades 11-12; Metal Processing Technology I

½ credit

1 trimester

COURSE CONTENT: This course builds on knowledge and skills acquired in Metal Technology I with more emphasis placed on the development of metalworking skills. This course also broadens the students machining concepts by introducing a unit in CAM (Computer Aided Machining).

STUDENT COSTS: \$15.00

**WARRIOR FABRICATION**

PREREQUISITES: **To register for this class, students must see Mr. Seichter for an application.**

1.5 credits

3 trimesters

COURSE CONTENT: This class will operate a student run business. The class will focus on all aspects of today's manufacturing, fabrication, and design industries. Students will use previously learned skills from Metals, Woods, Intro to Engineering Design (IED), Graphics Arts, Art, Ag Mechanics, and Business for the various positions in Warrior Fabrication. The students will be responsible for quoting jobs, ordering materials, manufacturing projects and products, quality control, shipping, receiving, invoicing, customer service, accounting, maintaining equipment, and everything else it takes to run a business. The class will also be generating funds to help further our Tech Ed program. Pending the financial success of this class, the students could take advantage of profit sharing. The following positions are needed: Machinists, Welders, Fabrication Production Manager, Office Manager, Marketing Manager, CAD Designers, Graphic Designers, and Graphic Production Manager.

# WORLD LANGUAGES

Course Title	Open to	Credit	Page
Spanish I A & B	9, 10, 11, 12	1	47
Spanish II A & B	9, 10, 11, 12	1	47
Spanish III A & B	10, 11, 12	1	47
Spanish IV A & B	11, 12	1	47
Spanish V A & B	12	1	47

\*\* It is strongly recommended to begin studying a foreign language in 9<sup>th</sup> grade. Many 4 year colleges and universities require 2-4 years of a foreign language for admission/graduation. Some colleges also offer a free placement test that students can take to earn free college credits for their foreign language work that they completed in high school.

## **SPANISH I A & B**

1 credit

PREREQUISITES: Grades 9-12

2 trimesters

COURSE CONTENT: Spanish I is an introductory course to the Spanish language and culture of Spanish speaking countries. An emphasis is on vocabulary acquisition and grammar concepts that allow students to engage in everyday basic communication. Concentration will be focused on the skills of reading, writing, listening, and speaking. Cultural activities correspond to units being taught, holidays, and current events in the Spanish-speaking world.

## **SPANISH II A & B**

1 credit

PREREQUISITES: Spanish I

2 trimesters

COURSE CONTENT: Students will build on the basics learned in Spanish I and they will acquire more vocabulary to increase their ability to communicate through listening, speaking, reading, and writing. Cultural activities correspond to units being taught, holidays, and current events in the Spanish-speaking world.

## **SPANISH III A & B**

1 credit

PREREQUISITES: Spanish II

2 trimesters

COURSE CONTENT: Students will further build on their knowledge and skills acquired in Spanish II. Students will develop an ability to correctly apply the language to communicate in a wider variety of situations and in different time frames (past, present, future tenses). Emphasis will still be placed on improving the students' reading, writing, listening, and speaking abilities. Cultural activities correspond to units being taught, holidays, and current events in the Spanish-speaking world.

## **SPANISH IV A & B**

1 credit

PREREQUISITES: Spanish III

2 trimesters

COURSE CONTENT: Students will continue to expand their ability to communicate in Spanish and will gain a deeper understanding of Hispanic cultures. Cultural activities correspond to units being taught, holidays, and current events in the Spanish-speaking world. Emphasis will be placed on improving and refining the students' reading, writing, listening, and speaking abilities through discussions and authentic materials. This course can prepare students for the Advanced Placement exam and assist students in earning college credits.

## **SPANISH V A & B**

1 credit

PREREQUISITES: Spanish IV

2 trimesters

COURSE CONTENT: Students will continue to expand their abilities to communicate in Spanish and will gain a deeper understanding of Hispanic cultures. Cultural activities correspond to units being taught, holidays, and current events in the Spanish-speaking world. Emphasis will be placed on refining the students' reading, writing, listening, and speaking abilities through discussions of authentic materials. This course can prepare students for the Advanced Placement exam and assist students in earning college credit.