

OZAUKEE HIGH SCHOOL

Academic & Career

Planning Guide

2023-2024

Success

for a Lifetime

The Northern Ozaukee School District does not discriminate on the basis of sex, race, color, national origin, ancestry, creed, religion, age, pregnancy, marital/parental status, sexual orientation, or physical, mental, emotional or learning disability in its programs and activities and provides equal access to the Boy Scouts and other designated youth groups.

Academic & Career Planning

* Academic and Career Planning (ACP) refers to both a process that helps students engage in academic and career development activities as well as a product that is created and maintained for students' academic, career, and personal advancement.

ACP is a student-driven, ongoing process that actively engages students, enabling them to:

- Understand their own interests, strengths, values, learning styles,
- Create a vision of their future,
- Develop individual goals, and
- Prepare a personal plan for achieving their vision and goals.

A four stage process is utilized within the ACP process that includes:

- KNOW
 - Who Am I? Understanding your interests, skills and strengths
- EXPLORE
 - Where Do I Want to Go? Explore career pathways and educational opportunities
- PLAN
 - How Do I Get There? Set your course, plan goals, engage in clubs and activities
- GO
 - Recalculate as needed.

* Taken from the ACP in Wisconsin Guide – Wisconsin Dept. of Public Instruction

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Course Offerings

21

- English
- Mathematics
- Physical Education & Health
- Science
- Social Science
- Art
- Business & Technology
- World Language
- Music
- Technology Education

**Contents of this document may change without notice.*

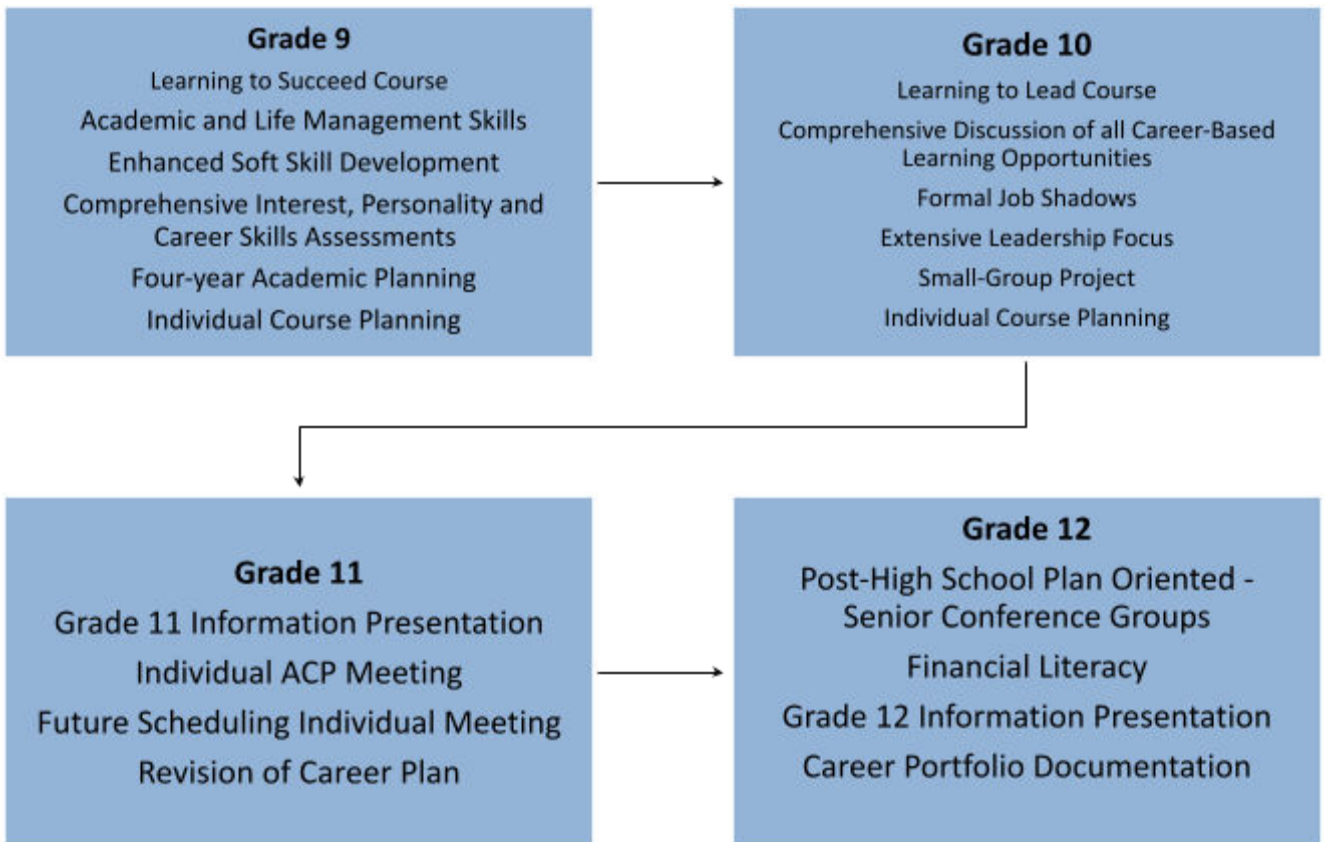
ACP at Ozaukee High School

Overview

Beginning in 9th grade, our students participate in a required course entitled Learning to Succeed. This is then followed by Learning to Lead in the 10th grade. These two courses provide a comprehensive ACP focus that allows students to make confident academic and career choices in the 11th and 12th grades.

Grade Level Programming

The following chart illustrates the ACP programming at each grade level.



Career Clusters

Overview

* The National Career Clusters® Framework provides a vital structure for organizing and delivering quality CTE programs through learning and comprehensive programs of study. In total, there are 16 Career Clusters in the National Career Clusters Framework, representing more than 79 Career Pathways to help students navigate their way to greater success in college and career.

As an organizing tool for curriculum design and instruction, Career Clusters provide the essential knowledge and skills for the 16 Career Clusters and their Career Pathways. It also functions as a useful guide in developing programs of study bridging secondary and postsecondary curriculum and for creating individual student plans of study for a complete range of career options. As such, it helps students discover their interests and their passions, and empowers them to choose the educational pathway that can lead to success in high school, college and career.

Clusters with Pathways

Agriculture, Food and Natural Resources

Agribusiness Systems

Animal Systems

Environmental Service Systems

Food Products and Processing Systems

Natural Resources Systems

Plant Systems

Power, Structural and Technical Systems

Architecture and Construction

Construction

Design/Pre-Construction

Maintenance/Operations

Arts, Audio/Video Technology and Communications

Audio and Video Technology and Film

Journalism and Broadcasting

Performing Arts

Printing Technology

Telecommunications

Visual Arts

Business Management and Administration

Administrative Support

Business Information Management

General Management

Human Resources Management

Operations Management

Education and Training

Administration and Administrative Support

Professional Support Services

Teaching/Training

Finance

Accounting

Banking Services

Business Finance

Insurance

Securities and Investments

Government and Public Administration

Foreign Service

Governance

National Security

Planning

Public Management and Administration

Regulation

Revenue and Taxation

Health Science

Biotechnology Research and Development

Diagnostic Services

Health Informatics

Support Services

Therapeutic Services

Hospitality and Tourism

Lodging

Recreation, Amusements and Attractions

Restaurants and Food/Beverage Services

Travel and Tourism

Human Services

Consumer Services

Counseling and Mental Health Services

Early Childhood Development and Services

Family and Community Services

Personal Care Services

Information Technology

Information Support and Services

Network Systems

Programming and Software Development

Web and Digital Communications

Law, Public Safety, Corrections and Security

Correction Services

Emergency and Fire Management Services

Law Enforcement Services

Legal Services

Security and Protective Services

Manufacturing

Health, Safety and Environmental Assurance

Logistics and Inventory Control

Maintenance, Installation and Repair

Manufacturing Production Process Development

Production

Quality Assurance

Marketing

Marketing Communications

Marketing Management

Marketing Research

Merchandising

Professional Sales

Science, Technology, Engineering and Mathematics

Engineering and Technology

Science and Math

Transportation, Distribution and Logistics

Facility and Mobile Equipment Maintenance

Health, Safety and Environmental Management

Logistics Planning and Management Services

Sales and Service

Transportation Operations

Transportation Systems/Infrastructure Planning, Management, and Regulation

Warehousing and Distribution Center Operations

Programs of Study

Overview

A program of study (POS) provides students with a framework that helps them to make academic, career and extracurricular choices that support their ACP goals. The initial colored charts provide a quick sequence of primary traditional courses offered within OHS. Additional courses, career experiences and clubs/organizations that relate directly to the POS are provided in detail under each chart. This information is very valuable for students/parents to review prior to making course requests each year.

CLUSTER: Architecture & Construction

PATHWAY:
Construction

PRIMARY COURSES:
Introduction to Woodworking
Introduction to Engineering Design
Cabinetry
Architectural Engineering & Design
Construction 1
Construction 2

PATHWAY:
Pre-Design & Construction

PRIMARY COURSES:
Introduction to Engineering Design
CAD
3D Modeling
Architectural Engineering & Design



CLUSTER: Arts, A/V Technology & Communications

PATHWAY:
Visual Arts

PRIMARY COURSES:
Art Foundations
2D Art
Print Media
Art Development

CLUSTER: Business, Management & Administration

PATHWAY:
General Management

COURSES:
Introduction to Business
International Business
Entrepreneurship (CAPP)
Accounting (CAPP)

CLUSTER: Finance

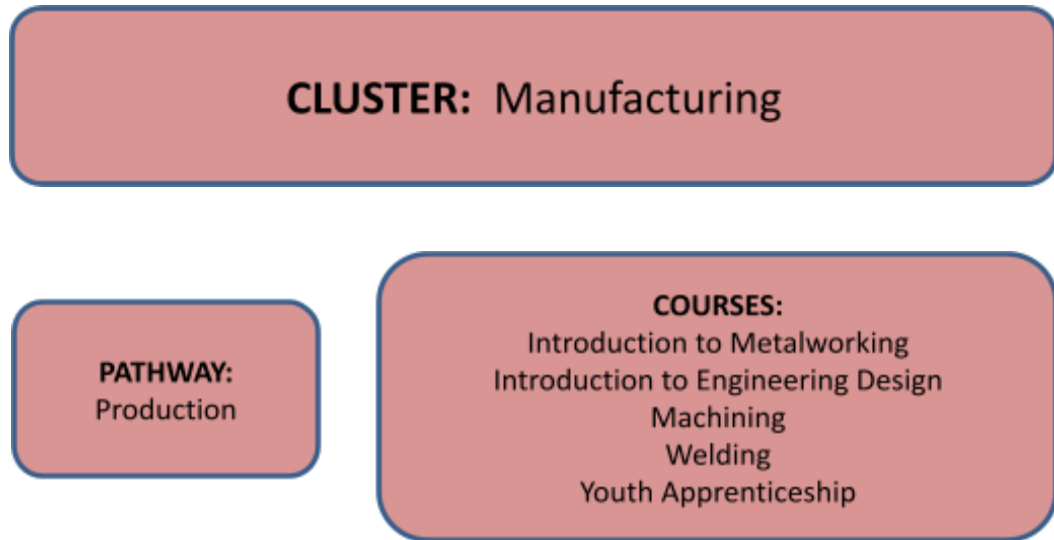
PATHWAY:
Accounting

COURSES:
Introduction to Business
Financial Literacy
Accounting (CAPP)
Youth Apprenticeship

CLUSTER: Health Science

PATHWAY:
Therapeutics

COURSES:
Biology
Anatomy & Physiology (AS w/LTC)
Nursing Assistant (TC w/MPTC)
Youth Apprenticeship (MATC)



Regional Career Pathways (RCP)

Wisconsin has identified various career areas of our economy that are in highest demand to have specialized RCP maps created to help provide students and parents with a guide. These comprehensive maps help students move from career pathways to related sectors to specific careers that require varying levels of education and/or training. Students are then able to identify coursework and career experiences offered through OHS that can support their interests.

Our region has developed five RCP maps. Given our course options at OHS, the following four maps are linked below:

- [Advanced Manufacturing](#)
- [Architecture & Construction](#)
- [Finance](#)

Graduation Requirements

General Credit Information

- Ozaukee High School requires 28 credits for graduation.
- All students in grades 9-12 must take eight classes each semester in order to be considered a full-time student.
- Course credit value:
 - ½ credit courses
 - meet every other day for one semester
 - 1 credit courses
 - meet every other day for two semesters or
 - meet every day for one semester
 - 2 credit courses
 - meet every day for two semesters

Subject Specific Requirements

- The credits earned while in grades 9 through 12 shall be earned within the following subjects:

Subject	Credits
English	4
Mathematics	3
Science	3
Social Sciences	3
Physical Education	1.5
Health	0.5
Economics & Financial Literacy	1
Learn to Succeed (2026 +)	0.5
Learn to Lead (2026 +)	0.5
Electives	11
Total Required	28

- **English Requirements:**
 - English 1, 2, English 3 or AP English Language, and English 4A and 1 (one) additional .5 credit English elective or AP English Literature are required for graduation
- **Mathematics Requirements:**
 - Algebra 1 and Geometry are required for graduation
- **Social Sciences**
 - World History, U.S. History or AP U.S. History, American Government and 1 (one) additional .5 credit of a Social Science elective or AP U.S. Government and Politics are required for graduation
- **Science**
 - Biology, Physics & Chemistry are required for graduation
- **Personal Finance**
 - Economics and Financial Literacy are required for graduation

Transfer Students

- o Students who transfer into our high school are expected to meet all of the graduation requirements established by this policy. Special considerations may be made for those students who come from schools that have lesser standards.

Grading, Class Rank, Academic Awards

Grade Point Average (GPA)

Cumulative **Grade Point Average** will be calculated at the conclusion of each semester. The final grade for each class will be used to calculate cumulative G.P.A.

Un-weighted GPA Scale		
Standard Grade	Letter Grade	Grade Points
4.0	A	4.000
3.7	A-	3.667
3.3	B+	3.333
3.0	B	3.000
2.7	B-	2.667
2.3	C+	2.333
2.0	C	2.000
1.7	C-	1.667
1.0	D	1.000
0	F	0.000

Weighted GPA Scale		
Standard Grade	Letter Grade	Grade Points
4.0	A	5.000
3.7	A-	4.667
3.3	B+	4.333
3.0	B	4.000
2.7	B-	3.667
2.3	C+	3.333
2.0	C	3.000
1.7	C-	2.667
1.0	D	2.000
0	F	0.000

- **Transcripts will display both GPA values.**
- **Rank in class is based on a weighted scale.**

Courses with Weighted Grades

It is important to understand that the courses listed below are not appropriate for all students. These courses are typically taken by students who have earned grades of a B+ or higher in the prerequisite course through demonstration of consistently strong school success skills. Teacher recommendation is a critical component utilized when assessing student readiness for these challenging courses.

- **Advanced Placement (AP)**
 - o AP U.S. History and AP Psychology are available to Grade 10 - 12 students
 - o All other courses are available to Grade 11 & 12 students

AP Courses Offered

Art History
Biology
Calculus AB

English Literature & Composition
Physics (Algebra-based)
Psychology

Calculus BC
 Chemistry
 English Language & Composition

Statistics
 Studio Art: 2D & 3D Design, Drawing
 U.S. Government & Politics
 U.S. History

● **Cooperative Academic Partnership Program (CAPP) & College Course in High School (CCIHS)**

- Partnership with UW-Oshkosh and UW-Green Bay
- College course curriculum taught by OHS instructors
- Students pay for college credit at beginning of course – a significantly reduced rate (approx. \$100 per college credit)
- Grade earned in class is the grade that shows on the UW transcript
- Formally begins college transcript – grades transfer to college

CAPP Courses Offered at OHS

OHS Course Name	CAPP Course Name	College Credit	OHS Credits
CAPP Accounting	Financial Accounting (ACCT 206)	3	1
CAPP Entrepreneurship	Introduction to Business (BUS 198)	3	0.5
CAPP Financial Literacy	Personal Finance (BUS 231)	3	0.5
CAPP Macroeconomics	Principles of Macroeconomics (ECON 201)	3	0.5
CAPP Microeconomics	Principles of Microeconomics (ECON 202)	3	0.5

CCIHS Courses Offered at OHS

OHS Course Name	CCIHS Course Name	College Credits	OHS Credits
CCIHS Spanish 4	Int Spanish Lang II (Spanish 202)	3	0.5
CCIHS Intro to Education	Intro to Education	3	0.5

Academic Excellence Scholarship

Provided by the State of Wisconsin, the Academic Excellence Scholarship is a \$9000 (\$2250 per year) award. The recipient is determined by class rank (weighted cumulative GPA) at the end of the first semester of senior year. If two or more students share the top class rank, the following tiebreaker procedure will be utilized:

- The first tiebreaker is the scholar with the highest ACT composite score
- The second tie breaker is the total number of high school graduation credits earned while enrolled in the district
- The third tie breaker is the highest ACT sub-score
 - a scholar may choose from English, Math, Reading or Science to determine the highest sub-score
 - the second, third, and fourth highest sub-scores chosen by the scholar in that order will be utilized as additional tie breakers
- The final tie breaker, if needed, is a coin flip.

Determination of Class Valedictorian & Salutatorian

- Determined on the sixth school day prior to the graduation ceremony
- Based on weighted class rank
- Class valedictorian will be the top ranked student of the senior class
- Class salutatorian will be the second ranked student of the senior class
- Students with an identical weighted class rank will be honored as co-recipients of the appropriate designation

Honor Roll and Honor Cords

Ozaukee High School utilizes the honor roll system to recognize the academic achievements of our highest performing students as measured by the weighted semester GPA. This designation is identified at the end of each semester.

Honor cords are awarded to our seniors who have earned a weighted cumulative GPA that signifies a high level of academic achievement. This achievement is recognized by the receiving of an honor cord at the Senior Awards Night that is worn by the recipient during the graduation ceremony.

The following chart illustrates the honor roll and honor cord systems.

Honor Roll	
Honor Level	Semester GPA Range (weighted)
Honors	3.000 – 3.499
High Honors	3.500 and above

Honor Cords		
Honor Level	Cumulative GPA Range (weighted)	Cord Color
Honors	3.000 – 3.499	Silver
High Honors	3.500 and above	Gold

Scheduling Guidelines

Scheduling Process

Ozaukee High School begins the scheduling process for the next year toward the end of the first semester. 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 April each year what electives will be offered, based on student enrollment.

Important Considerations

Course selection is a very important task. The following elements should be considered when choosing courses:

- **Graduation Requirements**
 - Review requirements in this guide
 - Appropriate timing and sequence
 - Review course prerequisites carefully
- **Intended Career Path**
 - Identified Career Cluster(s) within Xello
 - Identified saved careers in Xello
- **Appropriate Educational Path**
 - Best educational approach for career
 - Technical College
 - Four year College/University
 - Trade School
 - Apprenticeship

- Direct employment with subsequent training
- **Course Rigor**
 - Continued academic/skills growth throughout high school
 - Choose level that provides challenge, avoids failure
 - Weighted credit with increased GPA growth potential
- **Post high school benefits**
 - College credit while in high school (ECCP and/or Start College Now)
 - Advanced Placement - potential college credit earned through AP exam success
 - Youth Apprenticeship, Coop provides direct employment experiences and enhanced career awareness

It is important to know that student course selection directly determines the Master Schedule and teacher assignments. **Careful selection is critical.** The more accurate the course requests in the beginning, the smaller the number of schedule conflicts and changes later.

Scheduling Timeline

The scheduling process from providing student/parent information sessions through receiving a finalized individual schedule takes many months. The following chart provides a general timeline of the process:

Date	Activity
October/November	Students engage in ACP lessons that develop, focus, or update appropriate Career Cluster choices in Xello that help guide their course requests for the upcoming year.
	Provide student/parent information presentation at the 11 th grade level that assists appropriate course requests.
December	Individual 11 th grade conferences to help with student course requests
January	Individual 9th & 10th grade meetings to help with student course requests
	Large group grade 8 scheduling orientation and course request sessions
	Grade 8 scheduling assistance night is offered
Mid-February	Course Requests are finalized and the building of the Master Schedule begins
March	Master Schedule Building and student schedule creation
April	Student schedules are distributed and students/parents are given an opportunity to review and edit schedules.
End of April, early May	All student schedules are finalized to allow all students the ability to finish school year with a fully completed schedule.

Schedule Changes

Every effort will be made to honor each student's request for courses; however, conflicts between courses do arise. When that occurs, the school counselor will contact the student and help them resolve the problem prior to the end of the school year.

With our enhanced course request communication process, we are able to have students and parents feeling confident about their completed schedule prior to leaving for summer break. This eliminates the

need for schedule changes in the fall, allowing students and teachers the ability to focus on learning from the first day of class.

College & Career Based Learning

College Level Coursework

Start College Now (SCN)

High school students in good academic standing and who have no record of significant disciplinary problems may have the opportunity to take college courses at their local technical college. If our local school board determines a college course is eligible for high school credit and it is not comparable to any course offered by the school district, the school district will pay for the course. Once you graduate from high school, you can transfer those credits to any of the Wisconsin Technical Colleges.

Program Guidelines

- Available to Grade 11 & 12 students (Grade 10 students would apply in the spring of their 10th grade year for the upcoming Junior year)
- March 1st application deadline for fall semester
- October 1st application deadline for spring semester

Steps to Follow

- Meet with school counselor to discuss career plans and Start College Now program eligibility
- If appropriate, obtain Start College Now application from high school counselor
- Finish and turn in completed application to the high school counseling office by program deadlines
- Pay close attention to emails sent by technical college
- Register for college courses by deadlines established by technical college

Early College Credit Program (ECCP)

The ECCP allows Wisconsin public and private high school students to take one or more courses at an institution of higher education for high school and/or college credit. Under this program, "institution of higher education" means an institution within the University of Wisconsin System, a tribally controlled college, or a private, nonprofit institution of higher education located in the state.

Steps to Follow

- Talk with your high school counselor to see if it's a good fit for you. They will consider how the class aligns with academic plans and whether you meet the pre-requisite for taking a college level class.
- Obtain an ECCP participation form from your high school counselor
- Submit your completed form to your school officials by the following deadlines:
 - February 1st for summer
 - March 1st for fall courses

- October 1st for spring courses
- Follow the application or registration requirements at the campus or program you'd like to take classes with.
- Make sure to submit any required documentation (i.e. high school transcripts along with any prerequisite documentation (AP scores)).
- Enroll in your class.

In addition to the multiple options offered for courses, OHS also provides students with multiple career experiences that serve to foster their future development. These options include Work Based Learning (WBL), Industry Recognized Certifications (IRC's) and Career and Student Technical Organizations (CTSO's).

Career Based Learning

Ozaukee Youth Apprenticeship (OYA) - www.ozaukeeya.com

- Open to grade 11 & 12 students (Grade 10 students would apply in the winter of their 10th grade year for the upcoming Junior year)
- Available in numerous career areas
- Requires a minimum commitment of 450 hours of paid work within a calendar year
- Related education is provided for student as part of apprenticeship if required
- Students receive high school credit, release time, and a state certification
- Application deadline is February 1st of previous school year

OYA is the Cadillac of WBL's. It provides students with a comprehensive career experience that helps students fully understand what employment is like in the career they selected. It also creates solid connections with an employer that often leads to future employment and training opportunities after graduation.

A primary consideration for whether an OYA is appropriate for students is time to work in their schedule. If students are taking a rigorous academic course load and engaging in extracurricular activities, room for an OYA may not be available. As valuable as a WBL can be, a student only has one shot at high school. Sometimes the appropriate alternative is a work study WBL.

Work Study WBL

- Open to grade 11 & 12 students
- Requires a minimum of 90 hours of work or career awareness activity
- Requires taking a career related course during the semester student is employed
- Student receives high school credit for employment and potential state employability skills certificate

Both education and employment are valuable learning experiences in a student's life. When these experiences are combined, they create an enhanced learning opportunity that resonates with relevance. We are developing a broader range of WBL options at OHS that will engage more students in career specific experiential learning. Examples of these WBL opportunities are listed below.

Course	Employment
CCIHS: Introduction to Education	Teacher Aide
WVL Principles of IT	IT Assistant
WVL Culinary or Restaurant Management	Food Service
Employability Skills, other related courses	Work Study

Standard Work Study (Non - WBL Version)

- Open to grade 11 & 12 students
- Requires a minimum of 135 hours of paid work per semester
- Employer must engage students in work during school hours to qualify for early release
- Students earn 0.5 credit for every 135 hours worked within a semester
- Grade 11 students can earn up to one credit of work study, grade 12 students can earn up to two credits

This option does not require students to take a career related course and therefore does NOT qualify as a WBL experience.

Industry Recognized Certifications (IRC's)

Students are provided access to a number of certifications that are recognized by industry as valuable. These certifications require students to demonstrate an understanding of valuable standards and skills through the passing of an examination or performance assessment. Students receive specific skills and knowledge that prepare them for these exams by taking specific courses offered at OHS. The specific courses and the IRC's associated with them are listed below.

Course	IRC
Introduction to Engineering Design	SolidWorks Associate
Independent Engineering Design	Autodesk AutoCAD
Architectural Engineering	Autodesk REVIT
Construction	Career Connections - Level 3
Welding	AWS - Level I SENSE/Entry Welder
Machining	HAAS CNC Certification
Robotics (Near Future)	FANUC Certified Robot Operator 1
Nursing Assistant	CNA (Certified Nurse Aide)

Every IRC that a student earns is indicated on the student's transcript to be recognized by both colleges and employers. Depending on students' educational and career choices, these IRC's can be a sign of distinction.

Career & Technical Student Organization (CTSO)

OHS offers students the opportunity to be part of the following CTSO's:

Future Business Leaders of America - This club is advised by our business teacher and provides students with a rich amount of educational and professional opportunities to develop skills and knowledge related to business. More information on the Wisconsin FBLA can be found [here](#)

SkillsUSA - A partnership of students, teachers and industry working together to ensure America has a skilled workforce. SkillsUSA provides educational programs, events and competitions that support career and technical education in the nation's classrooms. More information on Wisconsin SkillsUSA can be found [here](#)

Career Resources

Career Information

Xello

Xello is the site that we use at OMS/OHS for the development of our 6th – 12th grade student's Academic and Career Plan (ACP). Each student creates an electronic version of their ACP Portfolio within their Xello account. Xello is the starting point when looking to find out information about colleges, universities, careers, resume writing, career inventories and more.

Xello Website: [Xello Student Login](#)

InspireWI

InspireWI is a web-based career experience organization made up of numerous partners from companies (employers and employees) and school districts. Every partner pays for the services provided by the InspireWI staff. This agreement has enabled them to become a very effective career experience organizer. Through InspireWI, students are able to engage in the following activities:

Students utilize Xello and the InspireWI website to learn about careers and the local companies that employ them. They are able to engage in the following activities:

- ❖ **Huddles with Employee Mentors** – Through InspireWI, students are able to connect virtually with specific career mentors. They can begin by reading through the current discussion board posts, and choose to ask additional questions.
- ❖ **Company Profiles** - When students select a career, they are able to click on the Companies box and discover a variety of Wisconsin companies that employ that career. They are able to read a company profile and see other careers that the company employs.
- ❖ **Career Experiences (Job Shadows, Company Tours, Career Education Activities)** - Students are able to register and participate in a variety of scheduled activities. They are also able to request a specific experience if they do not see a career listed.
- ❖ **Co-op Work Experiences** – Grade 11 & 12 students who are interested in primarily the [Manufacturing area](#) have another paid work exploration opportunity. Co-ops are a 90 hour work exploration experience tied to a student's concurrent participation in a Tech Education course at

OHS. The Co-op experience involves students in a hands-on exploration of various careers within specific company divisions. This exposure to multiple careers within a single Co-op is an exceptionally efficient method. Interested students should contact the OHS Counseling Office for more information.

- ❖ To access **InspireWI**, [Click here](#). Students may also access InspireWI through their Xello account.

TEACHER AIDE PROGRAM

Overview

Grade 11 & 12 students are provided an opportunity to serve as a teacher aide. Depending on the placement, students may assist the teacher with various classroom prep activities and may provide student tutoring services with the younger grades. The following information details specific elements of the teacher aide program.

Elements

- A student can serve as a teacher aide for one (1) class period per academic year
- A teacher aide earns .25 non-GPA credit
- A student needs to be accepting of whatever position is selected for them – personal requests will not be honored
- A contract is signed that describes the participant's and teacher's roles

Early Graduation

Rationale

The Board and professional staff of NOSD want parents and students to know that they believe students will receive the greatest benefit from our school system by attending four full years of high school. Even though there may be reasons to graduate early, parents should think carefully about the welfare of their student before making this decision. The student should seriously consider the pros and cons of early graduation. Both parents and students should realize that some of the most beneficial courses and rewarding experiences are offered in the last semester of the senior year. With all of these things considered, if it is in the best interest of the student, the following procedure is established:

Program Guidelines

- The student must have completed the first semester of their senior year and earned all the credits necessary for graduation.
- The student must meet one of the following reasons for considering early graduation:
 - To permit students to begin advanced, formal education
 - To permit students entry into apprenticeships or on-the-job training programs
 - To permit entry into the armed services of the United States.
 - To accommodate significant personal or family needs
 - To permit students to offer exceptional service to society.
- The process of application:
 - The student must meet with the school counselor to discuss early graduation and review Early Graduation Request Checklist

- The student must submit a written letter requesting early graduation to the high school principal by October 15 of his/her senior year. The letter must include:
 - An explanation of the student's reason for early graduation.
 - Signatures of the student and at least one parent/guardian to approve and verify the letter.
- In the case of an apprenticeship or on-the-job training scenario, students must obtain a letter of recommendation from their employer confirming the advanced training level of the employment.
- The Board must be informed of students who are eligible and have applied for early graduation. Students may be required to make a presentation to the board justifying their reasons for seeking early graduation.

The early graduate is welcome to participate in commencement exercises if he/she desires and must inform the high school principal of this desire. If they choose not to participate in the commencement exercise, the early graduate may pick up his/her diploma anytime after graduation.

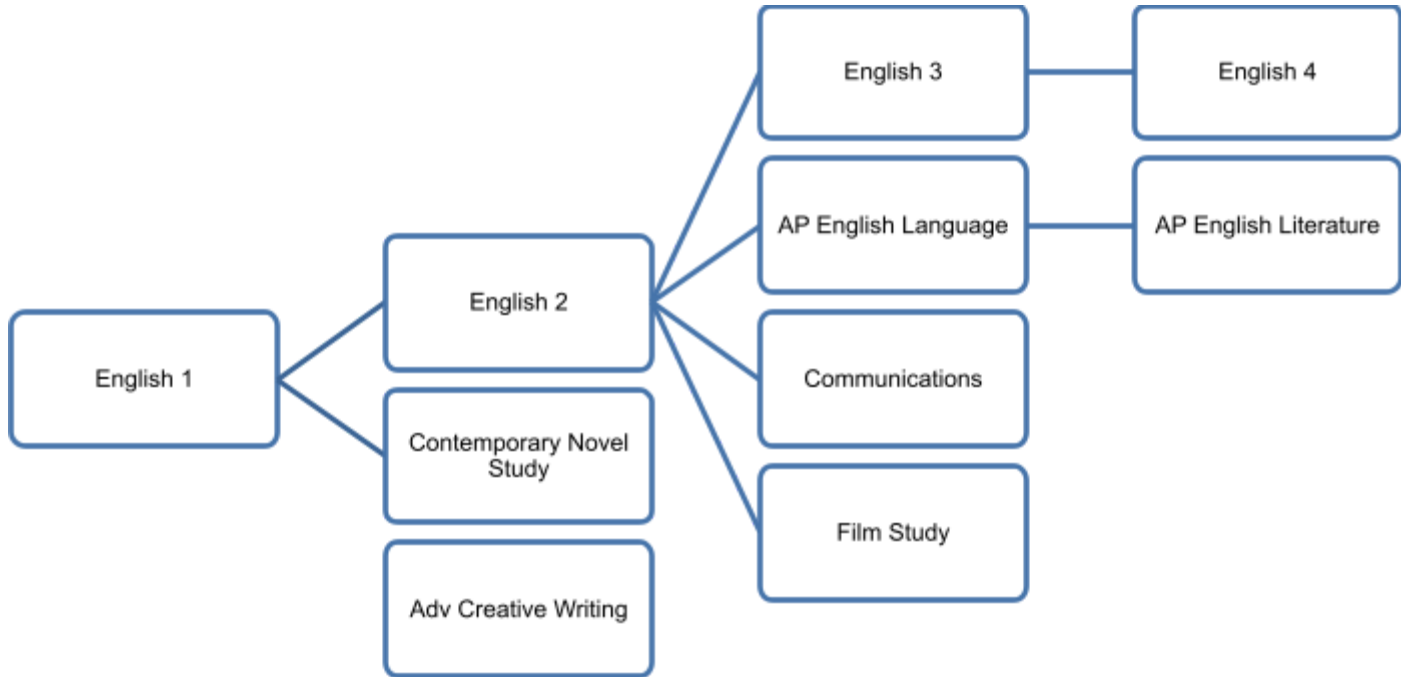
The early graduate will not be permitted to take part in organized school activities during the remainder of his/her senior year.

High School Course Offerings

ENGLISH

Graduation Requirements: 4.0 credits

(including English 1, English 2, English 3 or AP Eng. Lang., & English 4A or AP Eng. Lit.)



English 1

203 A & B

Credit: 1.0

Grade Level: 9

Prerequisite: None

This required course introduces students to various literary selections, to improve writing techniques, and to strengthen language and grammar skills. Students learn how to integrate the writing process into a variety of written forms, including analytical and expository essays, poetry and narratives. Students will also practice research skills and write a research paper. The course is intended to acquaint students with a variety of genres, including the short story, novel, epic, poetry, drama, and nonfiction.

English 2

205 A & B

Credit: 1.0

Grade Level: 10

Prerequisite: English 1

This required course focuses on exploring diverse cultures and literary genres. Aimed at increasing their cultural, intrapersonal, and language arts competencies, students will read contemporary multicultural prose and poetry, become acquainted with today's major authors, and discuss how these literary works reflect the problems, values, and issues of contemporary society. Students will have an opportunity to express themselves both creatively and analytically. In addition to analogy readings, students will examine supplementary novels and nonfiction texts.

English 3 **207 A & B**
Credit: 1.0
Grade Level: 11
Prerequisite: *English 2*

This required course is designed to further develop critical thinking skills, expository writing techniques, and strengthen language and grammar skills introduced in English 1 and English 2. This course surveys American literature (from pre-colonial to the present), diverse genres, authors, and themes. In addition to anthology readings, students will examine supplementary novels, dramas, and nonfiction texts. Students in this course will write for a variety of audiences and purposes with an emphasis on critical writing. Students will continue to develop proficiency in oral communication, grammar, and research skills.

English 4 **209A**
Credit: 1.0
Grade Level: 12
Prerequisite: *English 3*

This required course extends the literacy skills established in the previous English courses through analysis of literature, research writing, and formal speaking activities. This course focuses on a variety of literature, including the analysis of selections from the world literature anthology and supplementary novels, plays, and nonfiction texts. Students in this course will focus on expanding skills necessary to student success in further secondary and post-secondary English classes. In addition, students will study editing, grammar skills, oral communication, non-print media, and vocabulary from texts.

AP English Language & Comp **297 A & B**
Credit: 1.0
Grade Level: 11
Prerequisite: *English 2 & Teacher Recommendation*

The purpose of AP English Language is to provide talented high school students with college-level material. The AP examinations given in May of each year provide a standardized method of evaluating a student's ability to read prose written in a variety of rhetorical contexts and to become skilled writers who compose for a variety of purposes. With this in mind, students will be reading texts from various disciplines and periods. Also, the class writing and reading is designed to make students aware of the interactions among a writer's purposes, audience expectations, and subjects as well as the way generic conventions and the resources of language contribute to effectiveness in writing. This class will emphasize expository, analytical, and argumentative writing. This is a weighted course.

AP English Literature & Comp **299 A & B**
Credit: 1.0
Grade Level: 12
Prerequisite: *English 3, AP English Lang & Teacher Rec*

The purpose of AP Literature is to provide talented high school seniors with college-level material. The AP examinations given in May of each year provide a standardized method of evaluating a student's ability to read, interpret and analyze both prose and poetry. The exam stresses analytical skills and strong literary background. The AP Exam in mid-May is optional but recommended. The course is further designed to provide skills in critical thinking, advanced writing, seminar style discussion, college reading, and appreciation for literature. This is a weighted course.

Principles of Literacy **223 A & B**
Credit: 1.0
Grade Level: 9-12
Prerequisite: *Placement Only*

This is a course designed to raise student achievement in reading comprehension skills as well as improving skills relevant to their core English classes. Individualized instruction targets reading and writing skills to support student learning in all content areas. Other literacy-building activities include independent engaged reading, oral reading fluency, reading/writing workshops, and review of challenging vocabulary from your core area classes. Students will be enrolled concurrently in their grade level English class.

Advanced Creative Writing **215**
Credit: 0.5
Grade Level: 9-12
Prerequisite: *Creative Writing*

This class is for those students interested in continuing to polish their creative writing skills, with emphasis on building daily writing practice. Through direct instruction, as well as a workshop approach, students will study voice, style, tone, audience, and syntax in both their writing as well as others' writing. Along with a variety of writing assignments, focus will be on the following: editing and revising, writing techniques, studying various authors and their writing styles, and manuscript preparation.

Film Study **217**
Credit: 0.5
Grade Level: 11-12
Prerequisite: *English 2*

In film study, students will study several types of films including documentaries, short films, and major feature-length films. Students will **write** film reviews, analysis essays, as well as read supplementary material, give presentations, and take quizzes/exams. The course will include a study of American film history, techniques, structure, censorship, racism, sexism, and innovation. The course is intended for students interested in serious film analysis.

Communications **219**
Credit: 0.5
Grade Level: 11-12
Prerequisite: *English 2*

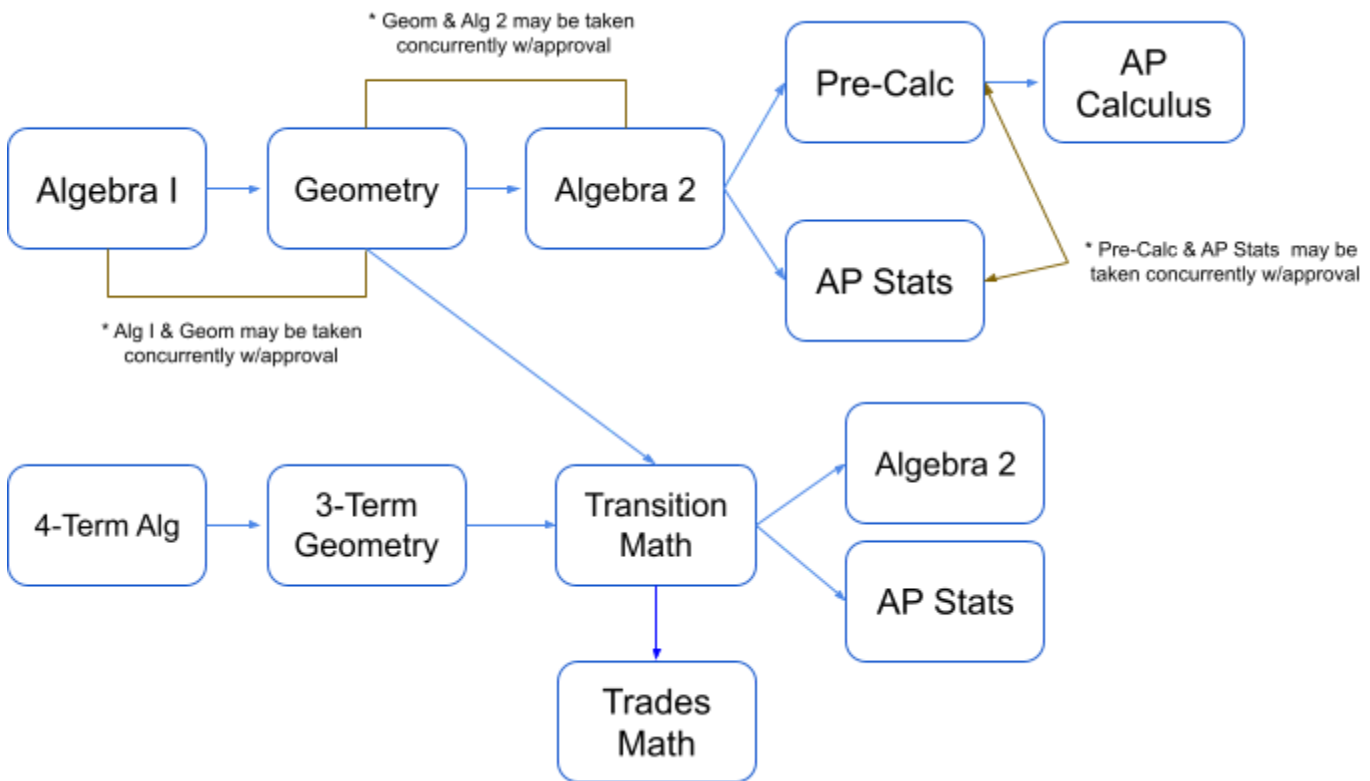
This lively course is designed for the student who wishes to develop and improve his or her verbal and nonverbal communication skills. Class activities will focus on delivery of various types of speeches (wedding toasts, eulogies, awards, etc.), analysis of the rhetorical techniques used in persuasion, media analysis, and the dynamics of group discussion. Furthermore, students will create blogs, papers, advertisements, and other forms of visual communication.

Contemporary Novel Study	225
Credit:	<i>0.5</i>
Grade Level:	<i>10-12</i>
Prerequisite:	<i>English 1</i>

This course is designed for the student who already enjoys reading and analyzing quality literature. This course stresses becoming a life-long reader. The student will improve analytical reading skills and writing skills through exposure to a wide variety of genres. Class time will be spent in journaling, responding to essay prompts, and discussing literature (primarily in small group settings).

MATHEMATICS

Graduation Requirements: 3.0 credits
(including Algebra and Geometry)



Algebra 1 (4 term)

303 A, B, C & D

Credit: 1 Math Credit, 1 Elective Credit

Grade Level: 9-10

Prerequisite: 8th grade teacher recommendation

Supplies: A scientific calculator is **REQUIRED**.

This course is the foundation of all future math courses. Preparation for future math classes through the understanding of abstract concepts is developed. The series of Algebra 1, Geometry, and Algebra 2 is our minimum recommendation to be prepared to attend a university. Algebra 1 four term is a **full year** course earning 1 math credit and 1 academic elective credit. Over the course of the year students will explore algebraic fundamentals including, evaluating, creating, solving, factoring and graphing linear, quadratic, and polynomial functions. On a daily basis, students will use problem solving strategies and think critically. Students will learn in collaboration with others, share ideas, justify solutions and critique the reasoning of others, in alignment with the Common Core Standards.

Algebra 1 (2 term) **305 A & B**
Credit: 1.0
Grade Level: 9-10
Prerequisite: *None, but concurrent enrollment with
Geometry allowed*
Supplies: *A scientific calculator is REQUIRED.*

This course is the foundation of all future math courses. Preparation for future math classes through the understanding of abstract concepts is developed. The series of Algebra 1, Geometry, and Algebra 2 is our minimum recommendation to be prepared to attend a university. Over the course of the year students will explore algebraic fundamentals including, evaluating, creating, solving, factoring and graphing linear, quadratic, and polynomial functions. Students will use problem solving strategies and think critically. Students will learn in collaboration with others, share ideas, justify solutions and critique the reasoning of others, in alignment with the Common Core Standards.

Geometry (3-term) **306 A, B & C**
Credit: *1 Math Credit, 0.5 Elective Credit*
Grade Level: 10-11
Prerequisite: Algebra 1, teacher recommendation
Supplies: *A scientific calculator is REQUIRED.*

This course prepares students to understand and use logical reasoning procedures through plane geometry concepts. The series of Algebra 1, Geometry, and Algebra 2 is our minimum recommendation to be prepared to attend a university. In Geometry students will build spatial visualization skills, conceptual understanding of geometry topics, and an awareness of connections between different ideas. Students will investigate, conjecture, and then prove to develop their reasoning skills. A strong foundation in Algebra skills is essential as students will be expressing geometric properties with equations. The key concepts addressed in this course are: transformations, similarity and congruence, properties and measurements of plane figures, right triangle trigonometry, investigation and proof, and geometric constructions, in alignment with the Common Core Standards.

Geometry (2 term) **307 A & B**
Credit: 1.0
Grade Level: 9-11
Prerequisite: Algebra 1 (*concurrent enrollment allowed*)
Supplies: *A scientific calculator is REQUIRED.*

This course prepares students to understand and use logical reasoning procedures through plane geometry concepts. The series of Algebra 1, Geometry, and Algebra 2 is our minimum recommendation to be prepared to attend a university. In Geometry students will build spatial visualization skills, conceptual understanding of geometry topics, and an awareness of connections between different ideas. Students will investigate, conjecture, and then prove to develop their reasoning skills. A strong foundation in Algebra skills is essential as students will be expressing geometric properties with equations. The key concepts addressed in this course are: transformations, similarity and congruence, properties and measurements of plane figures, right triangle trigonometry, investigation and proof, and geometric constructions, in alignment with the Common Core Standards.

Transitional Math**321 A & B****Credit:** 1.0**Grade Level:** 11-12**Prerequisite:** Geometry**Supplies:** *A graphing calculator is recommended. TI-84 Plus is recommended.*

Transitional Math is a mathematics course for high school students who have successfully completed algebra and geometry. This course will present new concepts and provide additional reinforcement of elements previously learned in order to enhance success in Algebra 2. The materials in this course integrate the topics of algebra, geometry, probability, and statistics. Throughout the course, students will practice algebraic thinking and use algebra to model and solve real world problems. Students are exposed to several branches of mathematics and will explore ways in which each one can be used as a mathematical model in understanding the world.

Trades Mathematics**331 A & B****Credit:** 1.0**Grade Level:** 12**Prerequisite:** Geometry**Supplies:** *A graphing calculator is recommended. TI-84 Plus is recommended.*

This course follows a standard technical college introductory math course path: apply basic arithmetic, Algebra, and Geometry to the various trades. Application problems will also include those of facilities, staffing, and materials management to provide a more well-rounded and supportive experience. As in all other OHS courses, students will be asked to articulate their solution processes and analysis results.

Algebra 2**309 A & B****Credit:** 1.0**Grade Level:** 10-12**Prerequisite:** *A minimum grade of 2.7 in Geometry***Supplies:** *A graphing calculator is REQUIRED. TI-84 Plus is recommended.*

This course builds upon algebraic principles developed throughout Algebra 1. This course prepares students for Pre-Calculus and college level mathematics. The series of Algebra 1, Geometry, and Algebra 2 is our minimum recommendation to be prepared to attend a university. Algebra 2 will review analyzing, graphing, and solving linear and quadratic equations, transitioning into higher-degree, polynomial equations. Additional topics include solving systems of equations, exploring and analyzing functions, radical expressions and trigonometry and statistical analysis of data, in alignment with the Common Core Standards.

Pre-Calculus**313 A & B****Credit:** 1.0**Grade Level:** 11-12**Prerequisite:** A minimum grade of 2.7 in Algebra 2**Supplies:** A graphing calculator is **REQUIRED**. TI-84 Plus is recommended.

This course will prepare students for college level mathematics and serve as a foundation for Calculus. Pre-Calculus is designed to provide a comprehensive study of functions, which are the basis of calculus and other higher mathematics courses. Students will explore the properties and graphs of polynomial, rational, inverse, exponential, logarithmic and trigonometric functions. Students will study analytical trigonometry, conics, matrices, probability, and limits. Graphing calculators are essential for the in depth study of analyzing graphs, graphical regressions, solving complex equations, and for operations with matrices.

AP Calculus AB & BC **399 A & B and 397 A & B****Credit:** 2.0 weighted credits**Grade Level:** 12**Prerequisite:** Pre-Calculus**Supplies:** A graphing calculator is **REQUIRED** and needed for the AP exam. TI – 84 Plus preferred.
AP Exam Fee (Optional)

AP Calculus follows the curriculum prescribed by the College Board for AP Calculus BC. A college level curriculum will be experienced and college credit may be earned by taking the AP Calculus Exam in early May. This course emphasizes a multi-representational approach to calculus, with concepts, results, and problems being expressed graphically, numerically, analytically, and verbally. The graphing calculator is integrated into the course to give the students a multi-dimensional approach to the concepts, results, and problems that will be a precursor to future calculus studies. Functions, graphs, limits, derivatives, and integrals are the main focus areas of the course, as well as additional topics in differential and integral calculus, such as parametric, polar & vector functions, and series.

AP Statistics**395 A & B****Credit:** 1.0 weighted credit**Grade Level:** 11-12**Prerequisite:** Algebra 2 (Concurrent Enroll Allowed)
OR A minimum grade of 2.7 in
Transition Math

The AP Statistics course is equivalent to an introductory, non-calculus-based college course in statistics. The course introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. There are four themes in the AP Statistics course: exploring data, sampling and experimentation, anticipating patterns, and statistical inference. Students use technology, investigations, problem solving, and writing as they build conceptual understanding.

PHYSICAL EDUCATION & HEALTH

Graduation Requirements: 1.5 credits of Phy Ed, 0.5 credits of Health



Physical Education 9-10 **603**
Credits: *0.5*
Grade Level: *9-10*
Pre-requisite: *None*

Concentration will be on physical fitness and individual and team sport activities that contribute to lifetime fitness. An emphasis will be placed on muscular and cardio-respiratory activities that lead to a healthy lifestyle. A variety of team sports and cooperative activities will be played with emphasis placed on teamwork, sportsmanship, and the physical benefits of exercise.

Physical Education 11-12 **605**
Credits: *0.5*
Grade Level: *11-12*
Pre-requisite: *None*

A course designed for improving physical fitness levels with an individual and team emphasis. There will be a focus on cardio-respiratory fitness activities that include fitness testing, volleyball, badminton, ultimate Frisbee, and a wide variety of games and cooperative activities.

Personal Fitness **607**
Credits: *0.5*

Grade Level: 10-12
Pre-requisite: None

Personal Fitness is designed to help students develop an understanding of cardiovascular and muscular training. Each student will participate in a variety of strength and conditioning activities and will participate in circuit training, along with developing and implementing a personalized fitness program. Proper techniques and self-discipline will be emphasized.

Yoga Fitness 613
Credits: 0.5
Grade Level: 10-12
Pre-requisite: None

The Yoga Fitness course is designed to help students develop an understanding of lifetime fitness and stress management. Students will participate in a variety of lifetime fitness activities, but the course will focus on the foundations and practice of Yoga. Each student will participate in fitness activities including Yoga, Pilates, Zumba, and Resistance Training while also exploring various stress management techniques. Individualized fitness goal setting and progress will be emphasized.

Health 615
Credits: 0.5
Grade Level: Required for all 9th grade students
Pre-requisite: None

This course focuses on the role of an individual's lifestyle as it pertains to his/her personal health and wellness. Topics include: Personality and Stress, Teen Suicide and Depression, Health Promotion, Substance Use and Abuse, Nutrition and Eating Disorders, Physiology, Fitness and Sports Medicine, First Aid and CPR, Abstinence, and Human Growth and Development.

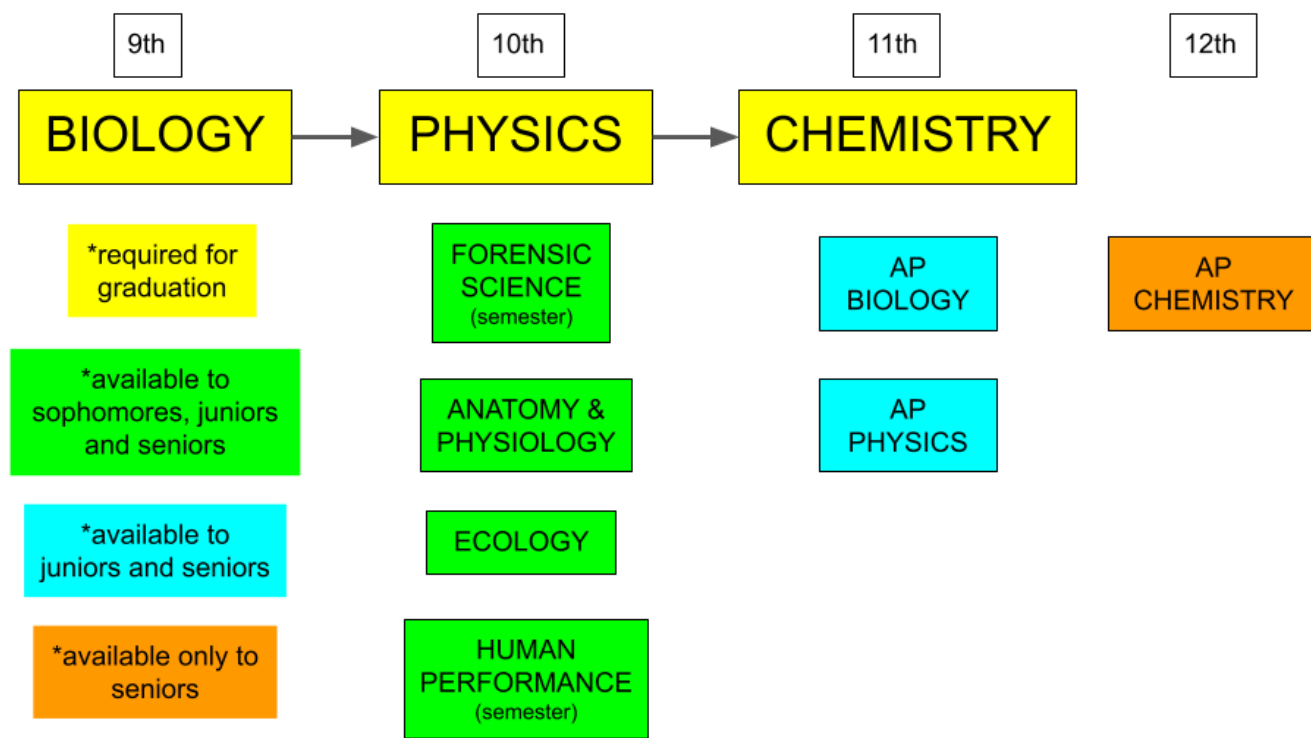
A Health course is required for graduation from OHS. Students who fail the Health course offered will be required to repeat the course. Students who enroll at Ozaukee High School after their freshman year will be required to complete the required course or provide evidence of successful completion at their previous school.

Advanced Nutrition 617
Credits: 0.5
Grade Level: 10-12
Pre-requisite: Health

This course emphasizes nutrition and its effects on an individual's wellness throughout the life cycle. Course content will be rigorous and focused on students strongly interested in nutrition and potential careers in the food industry. Students will: 1) Evaluate factors that influence the nutrition and health of individuals, families, and communities. 2) Synthesize principles of food acquisition, handling, preparation, and service to meet long term nutrition and food needs. 3) Evaluate factors that affect food safety and sanitation from production through consumption. 4) Evaluate impacts of science and technology on nutrition and food related issues. 5) Integrate knowledge, skills, and practices required for careers in the nutrition and food industry.

SCIENCE

Graduation Requirements: Biology, Physics & Chemistry



Biology

405 A & B

Credit:

1.0

Grade Level:

9

Prerequisite:

None

The focus of this course is to better understand the unity and diversity of life. Scientific models will be to take complex concepts and make them easier to understand. Topics include macromolecules, enzymatic activity, transport across membranes, energy, cell cycle, response to stimuli, genetics, inheritance, evolution, and ecology. In addition to content, this course deeply emphasizes science skills especially data analysis and experimental design.

Physics

409 A & B

Credit:

1.0

Grade Level:

10

Prerequisite:

Algebra

Supplies:

Scientific Calculator Required

This course is going to dive into all major physics topics at varying depths. Students will spend time investigating topics that include motion, forces, energy, momentum, atomic energy, waves, electricity and magnetism, circuits, thermodynamics, and optics. Learning will occur through classroom discussion, inquiry based lab investigations, and

individual research. This class focuses on conceptual physics, and uses algebra level math to verify concepts. Students that complete the second semester will receive 1-Credit of “Energy Generation” from LTC .

Chemistry **407 A & B**
Credit: 1.0
Grade Level: 11
Prerequisite: *Physics*
Supplies: *Scientific Calculator Required*

The study of Chemistry focuses on matter at the atomic level and requires a problem solving mindset with a math focus. The math that is taught in this class expands upon the math skills taught in Physics. We discuss scientific concepts that exist on such a small scale that they are not possible to see on their own. Students verify how these concepts work by using lab techniques as well as mathematical and data analysis. Topics studied include: Periodic table analysis, bonding, properties of chemical reactions, intermolecular forces, molecular geometry, calculating for product and reactant, acids and bases, and thermodynamics.

Ecology **413 A & B**
Credit: 1.0
Grade Level: 10-12
Prerequisite: *Biology*

This class places a major emphasis on hands-on activities in which the interrelationship between the abiotic and biotic systems will be explored. The course is designed for students with an interest in continuing biological studies or interested in pursuing a career in an environmental field. Content areas include the four major areas of ecology: behavioral, population, community, and ecosystem. In addition to the nature center, class will also center around the greenhouse, hydroponics, and “testing the waters” with Riveredge Nature Center. Students will be expected to spend time outdoors working on both individual and group projects related to environmental education.

Human Performance **427**
Credit: 0.5
Grade Level: 10-12
Prerequisite: *Biology*

While the scientific research that forms the basis of this class is from athletes, this course is aimed at anyone who is interested in increased human performance. Topics covered include achievement goal theory, motivation, stress, locus of control and attribution, attentional focus and concentration, self-talk, imagery, and flow. Students will develop generalized knowledge on each topic based on real research followed up with a specific focus on individualized reflection and application. Students will perform a personal inventory of psychological skills and learn how to regulate levels of anxiety/excitement to find individual zones of optimal performance. Ultimately students will develop a personal psychological skills training plan to enhance performance, increase enjoyment, or achieve greater self-satisfaction.

Forensic Science **415**
Credit: 0.5

Grade Level: 10-12
Prerequisite: Biology

The course will provide an outline for students to better understand the processing of crime scenes, evidence and forensic science in general. In Forensic Science, various topics will be considered including testimonial evidence and various types of physical evidence such as; faceprints, fingerprints, hair and fibers, DNA, blood splatter, casts and impression, ballistics, and handwriting analysis. Students will first learn how specific evidence is gathered and what information can be obtained from it. Students will learn the importance of observations of minor details and detailed record-keeping. A base understanding of chemistry, biology and anatomy will be reinforced throughout our study.

Anatomy & Physiology 423 A & B
Credit: 1.0
Grade Level: 10-12
Prerequisite: Biology

Anatomy and Physiology encompasses a review of the human body, its functions and pathologies. This course takes a holistic approach to the study of the human body, with the goal of preparing students for a university program in the medical sciences. Structure and function will be investigated in units moving from biochemistry, cellular mechanisms, tissues and body systems. The basic body systems include the muscle, skeletal, cardiovascular, nervous, reproductive, lymphatic, endocrine, urinary, integumentary, respiratory, and digestive systems.

AP Biology 499 A & B
Credit: 1.0 (weighted)
Grade Level: 11-12
Prerequisite: Biology (minimum of a 3 grade) & Teacher Recommendation
Cost: AP Test Fee

AP Biology is a course that is taught in accordance with guidelines prescribed by College Board. All students that are motivated, ask questions, and are willing to work hard outside of class will have the opportunity to earn college level biology credit. The AP test is not required, and the course is encouraged to be taken by anyone seeking a science related career. The course will cover a wide array of topics including cellular biology, genetics, evolution, biodiversity, kingdom characteristics, plant and animal anatomy and physiology, and ecology. Students looking to take this course should consider taking Anatomy and Physiology concurrently or previous to AP Biology.

AP Chemistry 497 A & B
Credit: 1.0 (weighted)
Grade Level: 12
Prerequisite: Chemistry (minimum of a 3 grade) and Teacher Recommendation
Cost: \$14/\$20 – Lab Notebook, AP Test Fee

AP Chemistry is a rigorous and demanding course that will require full commitment on the part of the student. AP Chemistry expands on the basic material taught in previous Chemistry courses with a greater focus on theory. This course also uses calculations as explanations for phenomena and to make predictions. An emphasis is placed on the laboratory experiences as well. Students taking AP Calculus concurrently will find the math in this class to be helpful for this course, however calculus is not necessary for AP Chemistry.

AP Physics 1

495 A & B

Credit:

1.0 (weighted)

Grade Level:

11 & 12

Prerequisite: Physics (minimum of a 3 grade) and Teacher Recommendation, Pre-Calculus (can be taken concurrently)

Cost:

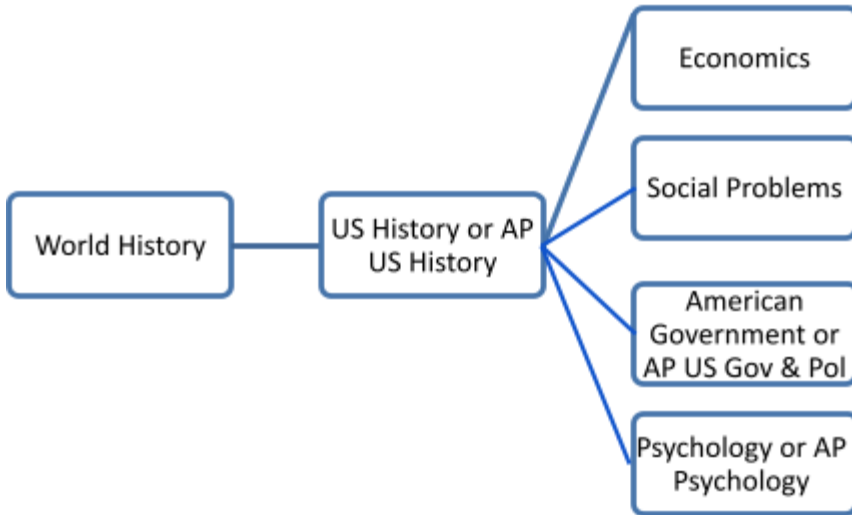
AP Test Fee

AP Physics is an algebra based course that allows students to receive college credit in Physics after successfully completing the AP Exam in May. Our units covered include Acceleration, Forces, Circular Motion and Gravitation, Energy, Momentum, Waves, and Rotational Motion. We use a combination of in class labs, homework, sample problems, and in class discussion to analyze the many phenomena that surround us. Students taking this course should have a strong math and physics foundation.

SOCIAL SCIENCE

Graduation Requirements: 3.0 credits

(Incl. World History, US History or AP US History, Economics, American Government or AP US Government)



World History

503 A & B

Credit: 1.0

Grade Level: 9

Prerequisite: none

World History covers major cultures and events from the age of absolutism to world movements in the 20th century. Students will develop an understanding of how past events, people, and ideas contributed to their time period and impact the future. This course focuses more on the cause/effect relationships of historical events rather than on specific dates. A focus of the first semester will be building a familiarity with world geography. The second semester will address major world wars from a global perspective.

US History

505 A & B

Credit: 1.0

Grade Level: 10

Prerequisite: none

This course will examine themes and topics in United States history, beginning with the Westward Expansion (making connections to the Civil War from middle school) through to the end of World War II and possibly into the Korean and Vietnam wars. The course will examine topics and themes including, but not limited to, the development of the US identity through westward expansion, slavery, the Civil War and Reconstruction era, industrialization and immigration, imperialism, World War I, the "Roaring Twenties", the Great Depression, World War II, the Cold War, and as far as we can get to present day. Skill emphasis is put on writing a persuasive 5-paragraph essay along with interpreting primary documents, political cartoons, and propaganda.

AP US History

599 A & B

Credit: 1.0 (weighted)

Grade Level: 10-12

Prerequisite: 3.3+ in World History (or US History), 3+ or above in English 1 (or subsequent English class). **Summer reading and homework are required and can affect class enrollment.**

**Note: Recommendations will be made by Freshmen World History teacher (currently Ms. Kaas)*

Cost: \$27 Personal Textbook cost (AMSCO) AP Exam Fee (Optional)

This course is a survey of American history, emphasizing the development and changing nature of American society. The students learn the lion's share of factual knowledge through their own reading and review. Class time is spent examining analytical and interpretive issues in American history – how and why the course of history went the way it did. By the end of the course students will be familiar with the basic chronology of American history; and understand its principal themes, including changes in political organization, long-term social trends, the interaction of various ideas, cultures, and social practices, and the trends in American literary and cultural expression. **Beyond content, students have to be fluid and efficient writers and be able to quickly interpret primary documents (many) they have never seen before.** Even the best content learners struggle relating this information in a formulaic way in a short amount of time in “Lone Essay Questions” and “Document Based Questions.” BE WEARY: An AP phrase goes: “If you aren’t crying, you aren’t trying.” THIS COURSE IS NOT FOR THE FAINT OF HEART or an overly busy student. The reward; though, is great, saving thousands of dollars on college credits IF you can pass the May College Board Exam. **This course, though very interesting and challenging, is term and content intensive and will require a considerable amount of independent study and work.**

Social Problems

507

Credit: 0.5

Grade Level: 11-12

Prerequisite: None

This course is designed to give the student an introduction to the study of social problems. It will present views from numerous perspectives within sociology, with special emphasis of the social psychological aspects of the individual and society. The purpose of this course is to make the student aware of his/her own social environment, as well as that of others within our social system. One of the goals of the course is to give the student a wide base of knowledge of the different aspects of society. Topics in the course are subject to change to keep the information fresh and relevant to our changing society. Topics covered may include drug abuse, crime, juvenile delinquency, divorce and other family problems, mental illness and other health problems, social class, and other selected social issues. This course may contain adult content that might be offensive. Please note that by enrolling in this course you understand and recognize that to be the case.

Economics

513

Credit: 0.5

Grade Level: 11-12

Prerequisite: none

This course is required for graduation. The goal of this course is to have students learn how the “system” works to eventually make logical and “economical” decisions for the future. Unit 1: Studies how to use scarce resources in the best way possible with the economic problem of alternative uses of their limited resources. Unit 2: Analyzes the affect supply and demand has on our economy and business and personal decisions. Unit 3: Compares and contrasts varying political and economic systems. From pure capitalism to communism, students will understand both the origins and theories of

these systems as well as the statistical realities of their economies. Unit 4: Examine both personal and federal banking: how the flow of the economy works and how loans, money supply, the government, and the Federal Reserve influence and react to the economy. Unit 5: Introduces basic concepts associated with personal finance and investing. This will serve as a foundation and/or review of financial literacy.

Psychology

509

Credit: 0.5

Grade Level: 11-12

Prerequisite: *None, students wanting to take Virtual AP Psychology as a senior must take Psychology as a junior.*

The aim of this course is to examine the mental processes and behaviors of individuals in society today. Students will learn to “step back” and take both an objective and subjective look at both individual and human behavior. Topics include the physiological workings of the brain and nervous system to the abstract workings of the mind. Historical study is included, focusing on the works of a variety of early psychologists. Segments on infant and child development, as well as abnormal psychology, are included. An emphasis on critical analysis of human behavior and critical application of higher-order thinking skills are emphasized. Students are expected to read, retain, and analyze material at a much higher level than in traditional core classes that may focus more on established fact.

AP Psychology

597

Credit: 1.0 (weighted)

Grade Level: 10-12

Prerequisite: *There are no prerequisites for AP Psychology (other than being in 10th grade or higher). **Regular Psychology (in house or online will prove to be very helpful).** Students should be able to read a college-level textbook and write grammatically correct, complete sentences. **Summer reading and homework are required and can affect class enrollment.***

Cost: \$27 Personal Textbook cost (AMSCO) AP Exam Fee (Optional)

Other: *This course was designed to be a potential **online only course** as well. This option **needs approval by both administration and teacher PRIOR to enrollment.***

The AP Psychology course introduces students to the systematic and scientific study of human behavior and mental processes. While considering the psychologists and studies that have shaped the field, students explore and apply psychological theories, key concepts, and phenomena associated with such topics as the biological bases of behavior, sensation and perception, learning and cognition, motivation, developmental psychology, testing and individual differences, treatments of psychological disorders, and social psychology. Throughout the course, students employ psychological research methods, including ethical considerations, as they use the scientific method, evaluate claims and evidence, and effectively communicate ideas. The AP Psychology course is designed to be the equivalent of the Introduction to Psychology course usually taken during the first college year. There are no prerequisites for AP Psychology. Students should be able to read a college-level textbook and write grammatically correct, complete sentences. **This course, though very interesting and applicable to everyday life, is term and content intensive and will require a considerable amount of independent study and work.**

American Government

515

Credit: 0.5

Grade Level: 11-12

Prerequisite: American Government or AP US Government is required for graduation

It is very important that you, as an American Citizen, learn about how our government works and how you fit into it. It is your duty and responsibility as an American citizen to understand the structure and how it operates to serve its citizens. The beginning stages of the class will focus on the historical background of how we came to be the United States of America. Once we are clear with the structure and basis, emphasis will be placed on the United States Constitution, state and local government and their interaction with other branches of government, and the students' responsibility as citizens of the United States in general. We will also examine our government and its place in current events.

AP US Government & Politics

593 A & B

Credit: 1.0 (*weighted*)

Grade Level: 11-12

Prerequisite: American Government or AP US Government is required for graduation

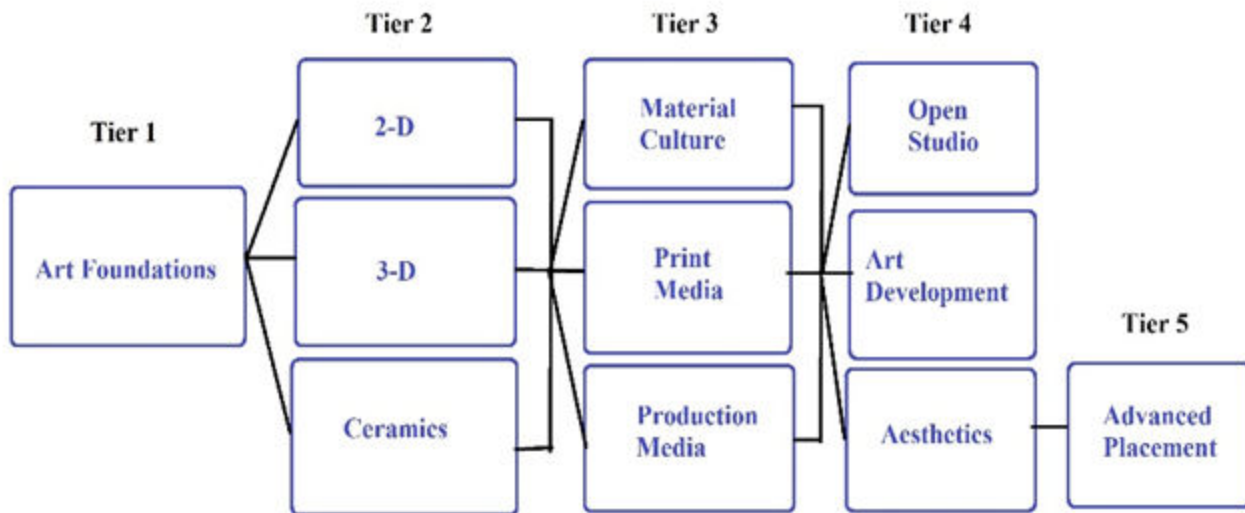
Cost: AP Exam Fee (Optional)

This course will give students an analytical perspective on government and politics in the United States. This course 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.

ART

Graduation Requirements: None

High School Art Program



Tier 1

Art Foundations

001

Credit:

0.5

Grade Level:

9-12

Prerequisite:

None

Cost:

\$20 for Art Project + sketchbook (spiral bound, hard cover, minimum 9" x 12"- recommend Pentalic)

Art Foundations is the first class that every student must take before they are offered any other art classes (exceptions may be made for students who excel in the 8th grade elective class or who have transferred in from other schools and have taken foundational classes). Art Foundations addresses the basics of drawing, painting, ceramics, and artwork idea development. The first unit focuses on the basics of drawing specifically: shading, human proportions, facial proportions, facial features, self-portraits, one and two-point perspective, iconography, the principles of design, with a culminating "self-portrait" project where they utilize the artwork idea development process. The second unit focuses on painting specifically, color mixing, layering, size, and distance, with two culminating projects- one addressing "combinator play" and a second as an art history study. Finally, the final unit focuses on ceramics or the use of clay. The students will learn the basics of clay, the three basic forms, and culminating in a project utilizing the three basic forms.

Tier 2

2D Art	003
Credit:	0.5
Grade Level:	9-12
Prerequisite:	<i>Art Foundations with a 2.0 or better</i>
Cost:	<i>\$20 for Art Project + sketchbook (spiral bound, hard cover, minimum 9" x 12"- recommend Pentalic)</i>

The 2D Art class provides a more in-depth development of two-dimensional art media. The students will have sketchbooks focusing on the elements of art: texture, shape (geometric and organic), line (rhythm and flow), form (tinting and shading), space (positive/negative, big, medium, small), color (monochromatic, complementary, analogous, warm and cool), and typography (calligraphy) The projects and media change with each class but may involve layering (shadowboxes, doll house, house layering), three or four-point perspectives, and foreshortening, Image enlarging or downsizing (gridding), pixelating (inch x inch or grid paper Pixelating), animation cells (paper doll), positive/negative (symmetry, scratchboard), calligraphy and illumination, stained glass, and watercolor, to name a few. By the end of the class the students will be able to demonstrate different techniques to make two-dimensional design.

3D Art Media	005
Credit:	0.5
Grade Level:	9-12
Prerequisite:	<i>Art Foundations with a 2.0 or better</i>
Cost:	<i>\$20 for Art Project + sketchbook (spiral bound, hard cover, minimum 9" x 12"- recommend Pentalic)</i>

The 3D Art class provides an in-depth development of three-dimensional art media. The students will address the idea of 3D space using the idea of three axes (XY and Z) and how things are viewed in space. The students will have "sketchbooks" that unlike a literal sketchbook will be exercises for working in 3D space such as: textures, cross-sections, armatures, forms, etc.) The projects and media change with each class but may involve: product design (things, clothing, shoes, and accessories), papier-mache, plaster casts (hand and masks), plaster carving, cardboard (busts, sculpture), wood carving, wire, popsicle, foam-core, stained-glass, collage, to name a few. By the end of the class the students will be able to demonstrate different techniques to make three-dimensional forms.

Ceramics Art	006
Credit:	0.5
Grade Level:	9-12
Prerequisite:	<i>Art Foundations with a 2.0 or better</i>
Cost:	<i>\$20 for Art Project + sketchbook (spiral bound, hard cover, minimum 9" x 12"- recommend Pentalic)</i>

The Ceramics Art class provides an in-depth development of the use of clay and clay techniques. Students will exercise different strategies for the use of clay and the use of glazes. The students will use the basic forms of clay: coil, slab, and sphere, and the techniques of hand building, use of forms and armatures, and wheel throwing. By the end of the class students will be able to demonstrate the different stages of molding, glazing, firing and finishing clay.

Tier 3

Material Culture

007

Credit: 0.5

Grade Level: 10-12

Prerequisite: *Art Foundations, a choice of a Tier 2 class, all with a 2.0 or better*

Cost: \$20 for Art Project + sketchbook (spiral bound, hard cover, minimum 9" x 12"- recommend Pentalic)

Media Culture- Material Culture is a career-oriented class designed for the introduction of students looking to go into the field or related fields of product design, interior design, or architecture. The focus of this class is on the basics of the different design processes. The primary focus will be the students ability to develop articles for a design portfolio. The students will learn basic design processes for the three different areas of design as well as some of the fundamental skills such as sewing, scale modeling, spatial recognition, etc.

Print Media

015

Credit: 0.5

Grade Level: 9-12

Prerequisite: *Art Foundations, a choice of a Tier 2 class, all with a 2.0 or better*

Cost: \$20 for Art Project + sketchbook (spiral bound, hard cover, minimum 9" x 12"- recommend Pentalic)

Print Media is a career-oriented class designed for the introduction for students looking to go into the field or related fields of advertisement, graphic design, or professional illustration or animation. The focus of this class is on basics of graphic design and other print medias. The primary focus will introduce students to graphic design using photoshop. The students will learn basic and trending techniques used in photoshop and then learn different production medias such as block printing, screen printing, and other ways the students can produce their own media products.

Production Media

019

Credit: 0.5

Grade Level: 9-12

Prerequisite: *Art Foundations, a choice of a Tier 2 class, all with a 2.0 or better*

Cost: \$20 for Art Project + sketchbook (spiral bound, hard cover, minimum 9" x 12"- recommend Pentalic)

Production Media is a career-oriented class design for the introduction of students looking to go into the field or related fields of "time-based" media (stop motion, animation, video editing, filmography). The focus of this class is on the basics of story writing/plot formula/ story arcs/ scripting, character development/archetypes/casting, setting/set design, story boarding/staging, stop motion, camera shots and angles, lighting, camera/filming functions, trailers, and production.

Tier 4

Aesthetics (AP Route)

011

Credit: 0.5

Grade Level: 10-12

Prerequisite: *Art Foundations, a choice of a Tier 2 class, all with a 2.0 or better and Teacher's approval*

Cost: \$20 for Art Project + sketchbook (spiral bound, hard cover, minimum 9" x 12"- recommend Pentalic)

The Aesthetics class is required for students interested in taking the Advanced Placement (A.P.) Art Class for college credit as it introduces valuable concepts. Aesthetics is an art philosophy class designed for an in-depth look at the purpose of art and asks the question, "What is Art?" The class focuses on student recognition of self, how they fit into the world, how art relates to self, and how art has both been influenced and has influenced throughout human existence. The Aesthetics class combines projects that develop student artistic thought and involves readings that introduce different thoughts about art.

Art Development

013

Credit: 0.5

Grade Level: 10-12

Prerequisite: *Art Foundations, a choice of a Tier 2 class, and a choice of a tier 3 class, all with a 2.0 or better*

Cost: \$20 for Art Project + sketchbook (spiral bound, hard cover, minimum 9" x 12"- recommend Pentalic)

The Art Development class is for students who are ready for an independent class but need to develop technical skills or want to explore different media. This is a sketchbook heavy class where the primary focus of the class is using different techniques and medias to work develop their own subject matter. The students may opt to turn their sketchbooks into major works but are not required. A major aspect of the class is developing an "artist" work mentality and ethic. The students will be responsible for developing a work ethic where they work on something for the class, every class period, for the whole semester.

Open Studio

017

Credit: 0.5

Grade Level: 10-12

Prerequisite: *Art Foundations, a choice of a Tier 2 class, and a choice of Tier 3 class, all with a 2.0 or better*

The Open Studio class is for students who are ready for an independent class but do not want to take the Advanced Placement route. The students are responsible for a minimum of 5 major works and 8 sketchbooks. A major aspect of the class is developing an "artist" work mentality and ethic. The students will be responsible for developing a work ethic where they work on something for the class, every class period, for the whole semester.

Tier 5

Advanced Placement (AP)

049

Credit: 0.5

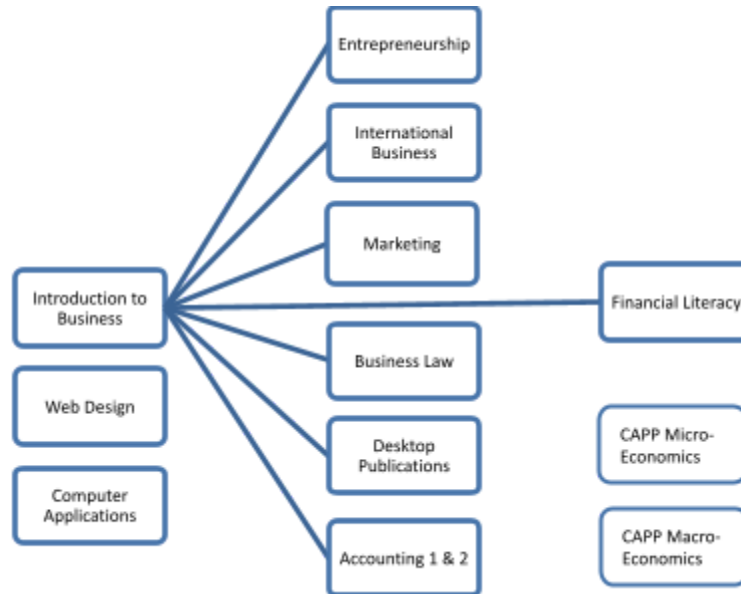
Grade Level: 10-12

Prerequisite: *Art Foundations, a choice of a Tier 2 class, a tier 3 class, and Aesthetics, all with a 2.0 or better. Teacher approval is required for this course.*

The Advanced Placement Art Class is a full year class that affords students the opportunity to earn college credit. The first quarter of the class (first half of the first semester) focuses on the full idea development process for making an artwork, how to document, and forming a “Topic Question” or “Sustained Investigation”. Once the students have worked through the process, they will need to repeat the process to make a minimum of 8 major works by March when they will need to submit their work for their college credit critique.

BUSINESS & TECHNOLOGY

Graduation Requirements: One credit
(including Computer Applications (10th grade) and Financial Literacy (12th grade))



Introduction to Business **103**
Credit: 0.5
Grade Level: 9-12
Prerequisite: None

This course is designed to provide students with a practical understanding of business including what it is, how it works, how it’s changing and how to be successful in the workplace. Students will learn the fundamentals of business related to management, marketing, operations, accounting, information systems, and finance. Students will learn about globalization, business ethics and industry outlooks. Students will gain a strong sense of our changing business world and what it will take for them to be successful in it.

Web Design **115**
Credit: 0.5
Grade Level: 9-12
Prerequisite: None

This course is designed to provide students with training and practice in a variety of web design tools. Students will learn how to apply industry web design principles as they design and create customized web pages. Students will be introduced to HTML and various web design tools including Weebly, Wix, Adobe DreamWeaver, and Fireworks. Students will create custom graphics for websites using Adobe Suite.

Computer Applications	105
Credit:	0.5
Grade Level:	10
Prerequisite:	None

In this course, students will be learning how to use MS Office products (Word, Powerpoint, Excel, Publisher and Access). These are programs that employers use daily and expect employees to use. In the course, students will learn how to use MS Office, how to apply it and how it compares to Google. Students will develop workplace readiness skills to ensure they are competitive in the workforce and in institutions of higher learning upon graduation from OHS. This course is designed to lead to MS Office certification.

Entrepreneurship	119
Credit:	0.5
Grade Level:	10-12
Prerequisite:	<i>Introduction to Business</i>

Special Note – Available college credit through UW-Oshkosh in the CAPP program and weighted credit

This course is designed to help students learn how to think strategically and to develop a detailed business plan. Students will be exposed to many different aspects of the world of business. A primary objective of the course is to broaden both the interests and horizons of students toward understanding the dynamics of business and business careers. Students will learn the essential elements of creating a business plan. Elements of entrepreneurship including market research, funding, market development, management team essentials and human resources will be covered in this course. As a culminating project, students will develop a detailed business plan covering multiple elements of a business.

This course can be taken for CAPP (college credit), which can earn you a weighted GPA in this course. The CAPP credit is offered through UW Oshkosh as a 3 credit course offering.

International Business	107
Credit:	0.5
Grade Level:	10-12
Prerequisite:	<i>Introduction to Business</i>
<i>Offered every other school year</i>	

This course is designed to provide students with an understanding of how business works in today's global marketplace. Additionally, students will be exposed to the career opportunities, the professional challenges, the personal risks and rewards of working in international business. Through this course, students will learn how international business differs from domestic business. They will be introduced to the impact of cultural differences, trade agreements, international organizations, laws, business customs and technology on international business.

Business & Personal Law	117
Credit:	0.5
Grade Level:	10-12
Prerequisite:	<i>Introduction to Business</i>
<i>Offered every other school year</i>	

This course is designed to provide students with an understanding of our legal system from a civil, criminal, and a corporate standpoint. Students will also be introduced to the career opportunities available in the legal profession.

Students will learn about the procedures and laws associated with civil, criminal, and corporate court systems. Topics will include: employee rights, consumer rights, contracts, lawsuits, juvenile vs. adult status in the legal system, sentencing options, and jury selection.

Marketing **108**
Credit: 0.5
Grade Level: 10-12
Prerequisite: *Introduction to Business*
Offered every other school year

Students will learn about the marketing mix, promotions, branding, licensing, marketing research, pricing decisions, and advertising campaigns. Students will evaluate how marketing strategies affect consumer buying patterns. Understanding these elements, students will be required to apply these concepts to a variety of products and services aimed at specific target markets.

Financial Literacy **131**
Credit: 0.5
Grade Level: 12
Prerequisite: *Required for Graduation*

Special Note – Available college credit through UW-Oshkosh in the CAPP program and weighted credit

Students will learn how to effectively manage their money and finances. Students will learn basic financial planning skills that will help them be successful when they are living on their own. Topics covered in the course include: planning for college or a career, managing a checking account, creating a personal budget, financing a car, insuring your assets, avoiding credit card debt, and establishing the savings habit early. Students will also cover retirement and estate planning, investing and investment strategies, ultimately culminating in a comprehensive financial plan for future financial success.

This course can be taken for CAPP (college credit), which can earn you a weighted GPA in this course. The CAPP credit is offered through UW Oshkosh as a 3 credit course offering.

Accounting **125 A & B**
Credit: 1.0
Grade Level: 11-12
Prerequisite: *Introduction to Business*

Cost: Student workbook will be approximately \$25

Special Note – Available college credit through UW-Oshkosh in the CAPP program and weighted credit

This course will introduce students to the vocabulary, concepts and procedures related to the accounting cycle, beginning with a focus on a service business operated as a proprietorship and advancing to a merchandise business operated as a corporation.

Students will first learn the business concepts and accounting practices used to analyze a service business for a proprietorship. Students will learn how to read the chart of accounts, how to record and analyze business transactions, and how to journalize and then post to the general ledger. Students will learn how to create a worksheet, income statement, balance sheet and post-trial balance sheet for a service business.

Students will then learn the business concepts and accounting practices used to analyze a merchandising business organized as a corporation. Students will learn the use of special journals, subsidiary ledgers, payroll records, and financial statements for a corporation.

This course can be taken for CAPP (college credit), which can earn you a weighted GPA in this course. The CAPP credit is offered through UW Oshkosh as a 3 credit course offering.

Desktop Publications **149**
Credit: 0.5
Grade Level: 9-12
Prerequisite: *Introduction to Business*

Students will learn how to use the Adobe Suite to create print ready publications for a variety of medium. Using programs like Photoshop, Illustrator and InDesign, students will manipulate graphics to create custom pieces promoting a variety of goods and services. Students will develop an understanding of effective graphic design and layout.

Macroeconomics **201**
Credit: 0.5
Grade Level: 11-12
Prerequisite: *Economics*

Special Note – Available college credit through UW-Oshkosh in the CAPP program and weighted credit

How do economists measure the health of the economy, explain its inner workings, and predict its future? In particular, how is the production of goods and services, employment, investment,

inflation, wages, and interest rates all related? We will attempt to understand these phenomena, and our economy as a whole, by making simplifying assumptions about our incredibly complicated world.¹ Do our assumptions help us understand the complex and interconnected things we see? Can the assumptions be used to accurately predict the consequences of large events such as financial crises, war and earthquakes? In this class, I will attempt to answer these questions among others.

Microeconomics **202**
Credit: 0.5
Grade Level: 11-12
Prerequisite: *Economics*

Special Note – Available college credit through UW-Oshkosh in the CAPP program and weighted credit

This course is a University Studies Program to introduce students to the concepts and values of a *Liberal Education*. We will focus on microeconomics, which provides the tools of economic decision-making by individuals, businesses, and government.

Topics include scarcity and choice, the price and market system, decision making by consumers, price-output decisions by firms, perfect and imperfect competition, government intervention, and the labor market. The knowledge gained in the course will allow students to understand the market economy, and thereby become a rational thinker in

everyday economic situations. Microeconomic theory is also an important tool to analyze economic issues in many areas such as labor market and trade. In short, students will be prepared to apply their knowledge in the real-world economic environment, from small scale units to the global economy.

FOREIGN LANGUAGE

Graduation Requirements: None



Spanish 1	703
Credit:	1.0
Grade Level:	9-12
Prerequisite:	None

This course will provide beginning Spanish students with a true flavor of the language through speaking, reading, writing, and listening. Students will also begin to explore the cultures of various Spanish-speaking countries. Throughout the course, students will learn to have basic conversations, describe themselves, their likes and dislikes, their school day, and discuss their families and more.

Spanish 2	705
Credit:	1.0
Grade Level:	9-12
Prerequisite:	Spanish 1

This course will continue to provide students with opportunities to speak, hear, read, and write Spanish. Students will gain a deeper understanding of Spanish-speaking countries. Throughout the course, students will learn to describe their house and home life, sports that they enjoy, having a healthy lifestyle, summer activities, vacations, and more.

Spanish 3	707
Credit:	1.0
Grade Level:	10-12
Prerequisite:	Spanish 2
Recommendation	– Students should have earned a grade of 3.0 or higher in Spanish 2

This course will provide students with more opportunities to speak, listen, read, and write Spanish. Students will continue to gain a deeper understanding of Spanish-speaking countries. Throughout the course, students will learn to discuss traveling and vacation activities, daily routines, shopping and clothing, food preparation, and more. Students will also learn about traditional Mexican legends and write their own legend.

CCIHS Spanish 4

709CCA & B

Credit:

1.0

Grade Level:

11-12

Prerequisite:

Spanish 3

Recommendation – *Students should have earned a grade of 3.0 or higher in Spanish 3*

Cost: To earn college credit, students must pay \$100/credit (\$300 total).

This course is a dual-credit college course offered through UW-Green Bay. The college course title is **Intermediate Spanish Language II (Spanish 202)**. As a dual credit course, students who earn a grade of 3 (B) or better will receive 14 college level credits for the following college courses: Spanish 101 (4 cr), Spanish 102 (4 cr), Spanish 201 (3 cr) and Spanish 202 (3 cr).

MUSIC

Graduation Requirements: None

Concert Band

Concert Choir

Band/Choir

Concert Band

051

Credit: 1.0

Grade Level: 9-12

Prerequisite: *Prior instrument training or Band teacher's approval*

Students will develop instrumental technique, music literacy and theory skills, and perform in a variety of music styles. Students will perform in Pep Band for athletic events, march in parades, attend small group lessons, and perform varied music literature in concerts throughout the school year. Students will also prepare either a solo or small ensemble that could be performed at a Solo and Ensemble festival. Additional opportunities are available for interested students such as joining the Jazz Band, performing at the Solo and Ensemble festival, and being selected for the Big East Honors Band or other honors bands.

Concert Choir

061

Credit: 1.0

Grade Level: 9-12

Prerequisite: *voice placement hearing if new to the choral program*

Students will develop vocal technique, music literacy and theory skills, and perform in a variety of choral styles. Students will work together as a choir, have small group lessons, perform in school concerts and for the community throughout the school year. Additional opportunities are available for interested students such as joining the A Cappella Choir, participating in Solo and Ensemble festival, being selected for the Big East Honors Choir, and taking private lessons. Choir is open to all students.

Band/Choir

071

Credit: 1.0

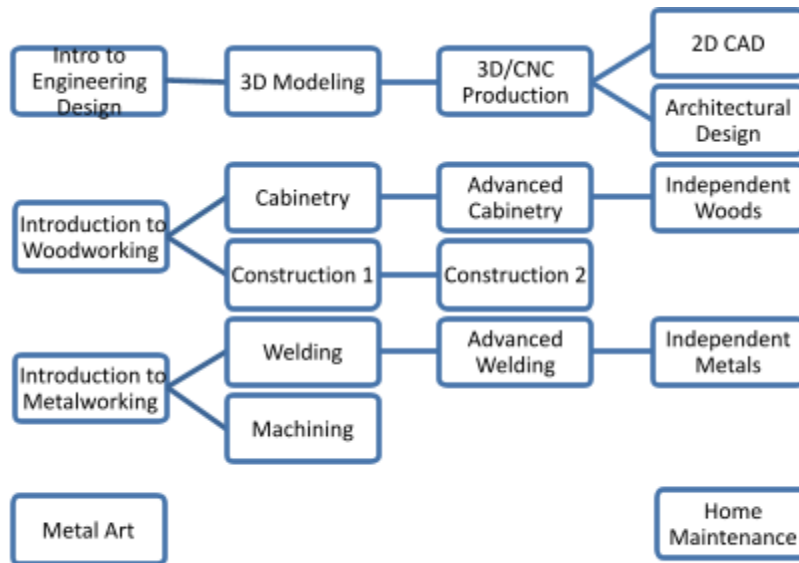
Grade Level: 9-12

Prerequisite: *Prior instrument training or Band teacher's approval, and voice placement hearing if new to the choral program*

Students may take both Concert Band and Concert Choir concurrently, meeting with each class for half of the block. The content of the course is a combination of the Band and Choir contents listed above.

TECHNOLOGY EDUCATION

Graduation Requirements: None



ENGINEERING & DESIGN COURSES

Introduction to Engineering Design	835
Credit:	<i>0.5</i>
Grade Level:	<i>9-12</i>
Prerequisite:	<i>None</i>

This course is a prerequisite for many other Tech Ed courses and should be taken by *all* students who are considering *any* type of technical career that involves making or fixing things. This course is designed to teach students about basic engineering drawing & design by creating drawings in the following areas: Sketching, isometric, multi-view, geometric construction, auxiliary views, pattern development, sectioning, and 3-D modeling. About 40% of the drawings will be done on paper w/ pencil, and the rest using CAD software on computers. Math skills are developed and reinforced when creating the various technical drawings. Also, students will apply their newly acquired skills by designing and building a wooden, 3D puzzle, and 3D printing a small, individual project.

3D Modeling	839
Credit:	<i>0.5</i>
Grade Level:	10-12
Prerequisite:	<i>Introduction to Engineering Design</i>

This course builds on the Introduction to Engineering Design class and covers advanced 3D modeling techniques and applications. Students will create a series of selected models and assemblies using Autodesk Inventor software. These models & assemblies will then be used to generate various dimensioned production drawings. Students will apply their newly acquired skills by designing and building an engine, with moving parts, as a final project. Or, students may choose, with instructor approval, an alternate final project. Also, if time permits, students will create and 3D print a small model as an introduction to the 3D Production course.

3D/CNC Production **841**
Credit: 0.5
Grade Level: 10-12
Prerequisite: 3D Modeling

This course provides a brief review of the advanced 3D modeling techniques and applications that were taught in the 3D modeling course. Then, these techniques will be applied to create 3D models. These models, in turn, will be produced using a CNC (Computer Numerical Control) machine and/or a 3D printer. Students will use MasterCAM to create CNC routed projects, and Inventor to create 3D printed projects. Each project will involve a 3 step process: 1-Design, 2-Toolpath Creation, and 3-Production. Students completing this course should be prepared for the Autodesk Inventor certification test, an industry-recognized credential that looks good to prospective engineering programs and employers.

Computer Aided Drawing (CAD) **837**
Credit: 0.5
Grade Level: 11-12
Prerequisite: Introduction to Engineering Design

This course builds on the Introduction to Engineering Design class. Work begins with single view drawings and progresses rapidly through to more complex work. Students will complete a set of technical drawings in each of the following areas: orthographic projection w/ dimensions, auxiliary views, pattern development, sectioning, oblique pictorials, machine-threads, and machine-casting. All drawings are completed using AutoCAD software on computers. Students completing this course should be prepared for the AutoCAD certification test, an industry-recognized credential that looks good to prospective engineering programs and employers.

Architectural Engineering & Design **843**
Credit: 0.5
Grade Level: 11-12
Prerequisite: Introduction to Engineering Design

This course is devoted to learning about basic building construction and architecture through a project based approach. Students will work through step-by-step tutorial lessons in creating a single family residential project with REVIT software. The house plans will include elevations, sections, floor plans, construction sets, and photorealistic renderings. Once the initial house project is completed students can apply their newly acquired skills in creating a home of their own design using the same REVIT software.

BUILDING TRADES COURSES

Introduction to Woodworking **803**
Credit: 0.5
Grade Level: 9-12
Prerequisite: None
Cost: \$20 for project materials

This course is designed to teach students about general woodworking techniques and machine/tool operation. Students will learn to operate and complete performance tests on all of the following woodworking machines as they work on projects: table saw, radial arm saw, power miter saw, jointer, planer, band saw, jig saw, disc sander, drill press, and router.

Also, students will be introduced to CNC (Computer Numerical Control) routing. This course is a prerequisite for any student wishing to enroll in the Cabinetry or Construction courses. Currently, the projects being made by students in this class are a lamp and desk organizer.

Cabinetry **805**
Credit: 0.5
Grade Level: 9-12
Prerequisite: *Introduction to Woodworking. Intro to Engineering Design recommended*
Cost: *\$50 for night stand project materials*

This course builds on the Introduction to Woodworking class. Students will use equipment for more advanced woodworking techniques and joints to build a teacher-designed cabinet that will include a face frame, drawer, and doors. Students will briefly review woodshop safety, develop a set of working plans for the cabinet base with the instructor's guidance, and then produce the project. The students will then produce a set of working plans for both the drawer and doors, and then produce these parts to complete the project. The current project being used in this class is a night stand/end table.

Advanced Cabinetry **807**
Credit: 0.5
Grade Level: 10-12
Prerequisite: *Cabinetry*
Cost: *Costs will vary based on the materials required by each project*

This course is designed to teach students to apply what they have learned in the previous woodworking classes, to think and work independently, and problem solve. This course will allow students the freedom to challenge their woodworking skills as they develop and produce student-designed, instructor-approved project(s). Upon completing a detailed set of plans, students will seek help as needed while working independently in the cabinetry class on their individual project(s). An acceptable project will challenge the student's woodworking skills and include various elements such as advanced joints, a face frame, drawer, &/or doors.

Construction 1 **813A & B**
Credit: 1.0
Grade Level: 11-12
Prerequisite: *Introduction to Woodworking. Introduction to Engineering Design is highly recommended.*

This course is designed to teach students about the building construction trades through hands-on experiences. Students are exposed to building construction techniques involving rough framing, siding, roofing, and finish carpentry. Students will work in groups of 5 or less, on a storage shed. Each group will draw a set of plans for a storage shed, estimate the needed materials, get prices from local businesses to calculate a final cost, and then build it. Pertinent information will be provided as needed to aid/assist in the building process of the sheds. When completed, sheds will be delivered to the customer's home by the class.

Construction 2

814A & B

Credit: 1.0

Grade Level: 12

Prerequisite: *Construction 1 completed with a grade of 3 or higher and teacher approval.*

This course is designed to strengthen students' leadership, organizational, and management skills, as well as improve their carpentry skills, by placing them into a leadership role as a "crew foreman". The students will be exposed to advanced building construction techniques and calculations. Each student will be assigned as a foreman in charge of a construction crew. They will be responsible for assisting the instructor in overseeing the successful construction of a shed. Some of the specific duties will include ordering materials, teaching building construction techniques to crew-members, inspecting shed construction, communicating with the customers as needed, and monitoring/verifying the billing of materials. Construction 2 students will also be expected to research at least 1 trade found within the construction industry.

Independent Woods

812

Credit: 0.5

Grade Level: 11-12

Prerequisite: *Advanced Cabinetry completed with a grade of 3 or higher and teacher approval.*

Cost: *Costs will vary based on the materials required by each project.*

This course will allow students to demonstrate advanced woodworking, problem solving, project management, and quality control skills. Students will be required to complete a minimum of two independent projects during the term. Students will be required to create a contract/plan for each project, outlining their responsibilities and timelines. This contract/plan must be finished within the first week of class or the student will be required to drop the course and take an alternative (on-schedule) option.

WELDING & MACHINING COURSES

Introduction to Metalworking

815

Credit: 0.5

Grade Level: 9-12

Prerequisite: *None*

Cost: *Approximately \$20 for project materials*

This course is designed to teach students basic introductory principles of manufacturing, exposing them to practices and techniques for: machining, electric arc welding, gas welding, and sheet metal work. Students will learn about and practice metal shop safety, tool/ machine procedures, and welding processes while creating their metal projects. This will be done in a project oriented setting, maximizing "learning by doing." This is the prerequisite course for any student wishing to enroll in Welding or Machining.

Machining

817

Credit: 0.5

Grade Level: 9-12

Prerequisite: *Introduction to Metalworking*

Cost: *\$20 for project materials*

This course is designed to teach students basic principles of metal lathe, vertical milling machine, surface grinding, drill press use, and thread tapping, exposing them to applicable practices utilizing those machines through the use of exercises and in the development of their projects. Students will learn about machine tools as they work on their projects: a metal goblet, machinist cube and machinist's hammer. This will be done in a project oriented setting, maximizing "learning by doing."

Welding **823**
Credit: 0.5
Grade Level: 9-12
Prerequisite: *Introduction to Metalworking*
Cost: *\$20 for project materials*

This course is designed to teach students basic welding techniques/principles. Students will learn 4 types of welding; Oxy-Acetylene gas, stick, MIG, and TIG. Also, students will learn to use the Plasma-Arc Torch and Oxy-Acetylene Torch for cutting. Students will learn about welding safety and then begin working on practice welds. Students will perform a variety of required welds and testing for strength and consistency. Projects included are a metal dice, a shelf, and other projects.

Advanced Welding **825**
Credit: 0.5
Grade Level: 10-12
Prerequisite: *Welding*
Cost: *Costs will vary based on the materials required by each project.*

This course is designed to teach students advanced welding techniques/principles. Students will further develop their skill at performing 4 types of welding; Oxy-Acetylene gas, stick, MIG, and TIG, and at using the Oxy-Acetylene Torch for cutting. Students will learn how to make layouts and blueprints, join metals by the use of Stick, MIG, and TIG according to layouts, and cut metal to a given shape and size using gas cutting and plasma burning equipment. Basic elements of the course may include, but are not limited to, the recognition of welding symbols, blueprint reading, familiarity with melting and welding characteristics of various types of metals, making different welds from all angles, selecting the proper materials and equipment for the proper and safe operation.

Independent Metals **827**
Credit: 0.5
Grade Level: 11-12
Prerequisite: *Machining and/or Welding and teacher approval*
Cost: *Costs will vary based on the materials required by each project.*

This course is designed to provide students with the opportunity to develop advanced principles in the areas of machining (engine lathe, vertical milling machine, surface grinding, and drill press use) and/or welding (Gas, MMA (stick), GMAW (mig) and Gas Cutting Torch Practices, and Brazing, TIG, Stainless Steel (TIG), and Aluminum (GMAW)). Students will be required to complete a minimum of two independent projects during the term. Students will be required to create a contract/plan for each project with the Tech Ed teacher outlining their responsibilities and timelines. This contract must be finished within the first week of class or the student will be required to drop the course and take an alternative (on-schedule) option.

BONUS TECHNOLOGY CLASSES

Metal Art	851
Credit:	0.5
Grade Level:	9-12
Prerequisite:	None
Cost:	<i>\$20 for project materials</i>

This will be a project based course composed of three to five projects. This is an introductory class designed to explore a variety of metals and become familiar with techniques. Students will be introduced to the elements and principles of design and learn metal working techniques and processes. They will learn how to develop an idea, create patterns/layouts and execute said idea. Design will be incorporated into all aspects of the class. Students will learn how to create designs both on the computer and on paper. They will learn basic welding and soldering techniques. Students will be introduced to the laser and plasma cutters, various hand tools, the MIG welder & soldering tools. Students will fabricate metal yard art, decor, jewelry, and a variety of other projects based on skill sets and areas of interest.

Home Maintenance	809
Credit:	0.5
Grade Level:	11-12
Prerequisite:	None
Cost:	<i>\$20 for project materials</i>

This course is designed to teach students about the basic structure of a house and the various systems in it. Students will work in small groups completing activities and projects that will involve wiring up various electrical circuits, soldering copper tubing, cementing PVC pipe, applying asphalt shingle roofing, mixing/pouring concrete, and taping/patching drywall. The class will enable students to perform basic construction, maintenance, and repair of simple electrical, plumbing, drywall, roofing, masonry, and carpentry issues that a homeowner may face in purchasing or maintaining a home. Anyone planning to own a home someday will benefit from this course, as well as anyone considering a career in any of the construction trades.

Auto Service 1	847C
Credit:	0.5
Grade Level:	11-12
Prerequisite:	None
Cost:	<i>\$20 for project materials</i>

This is a comprehensive automotive course at an entry level. Auto Service 1 offers light/initial coverage of all eight ASE areas including: Engine Repair; Automatic Transmission; Manual Drive Train & Axle; Suspension & Steering; Brakes; Electrical Systems; Heating & Air Conditioning; and Engine Performance. This course will provide an excellent introduction to servicing the entire automobile. A hands-on, lab-oriented approach to the automobile makes this an enjoyable class for students.

INTRODUCTION TO EDUCATION

Graduation Requirements: None

CCIHS Introduction to Education **937CCA**

Credit: 0.5 for class, 0.5 for Field Experience

Grade Level: *11-12*

Prerequisite: Students looking at a career as an Educator

Cost: To earn college credit, students must pay \$100/credit (\$300 total).

This course is a dual-credit college course offered through UW-Green Bay. It teaches the practical skills and dispositions needed to work effectively with children, teachers, staff and administrators in the K-12 settings. The course will help you begin thinking in new and informed ways about teaching and learning. The course includes an arranged field placement and the students are required to schedule a separate class hour of Field Experience that meets in the same semester as the course. This experience hour connects the student with a cooperating teacher and provides them with direct educational experience, guidance and supervision.