Tomahawk High School

1048 E. King Road
Tomahawk, Wisconsin 54487
(715) 453-2106

2025-2026 Course Guide

Tomahawk High School

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Tomahawk, Wisconsin 54487
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School Counseling Department:
(715) 453-2106, Ext. 1

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All courses, including Career and Technical Education courses, are available without discrimination based on race, color, religion, national origin, ancestry, creed, pregnancy, marital status, parental status, sexual orientation, sex, (including transgender status, change of sex or gender identity), or physical, mental, emotional, or learning disability, any other characteristic protected by law in any of its student programs, activities, and employment ("Protected Classes").

TOMAHAWK HIGH SCHOOL
Course Description Book

Table of Contents

This guidebook has been prepared by the administration and staff to assist you in planning your educational progress for the **2025-2026** school year. Study the entire book before making decisions on courses you plan to request. It is your responsibility to select the courses that best meet your needs based on your interests, aptitudes, abilities, and future plans. Teachers, counselors, and parents will help you in your selection. Before making your decisions, you will want to consider the following:

1. Know what the requirements are for graduation from Tomahawk High School. Are you meeting these in your planning?
2. Before selecting a course, check the course description. Does it meet your needs based on your future plans? Do you have the proper prerequisites for each selected course?
3. If in doubt about credits for graduation, universities, technical colleges, apprenticeships, or careers, see a counselor for assistance.
4. Plan ahead—not just for next year but for your entire high school career and your future educational plans.
5. Students must maintain a course schedule that has a minimum of 6 credits per school year. Students may request to change courses by the end of Day 2 of each semester by appointment with your counselor and with parent/guardian approval. Only one credit of course changes will be allowed per academic school year and the new course requested must be listed as an Alternate Course on your original course registration form. All course request changes will be dependent upon room availability and meeting any course prerequisites. Year-long courses may not be added at the end of Semester 1. Courses that are approved to be dropped after Day 2 of the semester will result in a Failing (F) grade on the student transcript, unless approved by students, parents, teacher and counselor. Transcript grades will apply to student privileges and co-curricular eligibility.
6. Any exemptions to meeting prerequisites for a class must be approved by the instructor and the counseling department.
7. Selecting courses does not guarantee that you will actually be scheduled into those courses. Every effort will be made to honor your requests, but it is impossible to make a 100% perfect schedule. When conflicts occur, the counselors will help the student to make alternate choices.
8. Early Graduation: Students wishing to explore the option of Early Graduation must plan for this with the guidance department. Requirements for early graduation may be obtained from the guidance office and are included in the student handbook. All applications for early graduation must be turned into the guidance office by March 15th of the student's junior year.
9. Graduation Year: Students who complete graduation requirements during the 1st and 2nd semester of their senior year or during summer school following their 4th year of high school will be listed as a current year graduate. Any student extending their high school education into their fifth year (starting September 1st) will be listed with the next graduating class.

Please take advantage of the many resources available to you: teachers, counselors, parents, and others in planning your schedule so that it is the best possible one for you. Do a thorough job. If you have any questions, please call the counseling office at (715) 453-2106.

TOMAHAWK HIGH SCHOOL GRADE ADVANCEMENT POLICY

Grade level advancement is determined by the number of credits earned. **For the Class of 2026, a total of 22 credits is required for graduation. Beginning with the Class of 2027, 23 credits are required.**

The following credit accumulation will determine grade level advancement:

A student of **sophomore** status must have earned **five** credits by the end of the freshman year.

A student of **junior** status must have earned a total of **ten** credits by the end of the sophomore year.

A student of **senior** status must have earned a total of **sixteen** credits by the end of the junior year.

EDMENTUM ONLINE LEARNING POLICY

Edmentum is a learning platform that allows a student to take a class online. Tomahawk High School students are allowed to take Edmentum classes for learning (enrichment) but not for credit. The class will be recorded on the student's transcript with a corresponding grade. Teacher support will not be assigned. However, a student may contact a content specialist for assistance. Students taking an Edmentum course for enrichment learning will be given one week to drop an undesirable Edmentum course to select a new approved Edmentum course. Students who enroll in an Edmentum class for enrichment learning will not be assigned a class period during the school day to complete the coursework.

Students who have failed a course required for graduation may take an Edmentum class for credit recovery if approved by administration. Credit will be awarded upon successful completion of the course. A grade will be recorded on the high school transcript. Students taking an Edmentum class for credit recovery of a failed course required for graduation will be assigned to a class period during the school day to complete the coursework along with a teacher to provide support.

ZERO HOUR COURSES

The Academic & Career Planning (ACP) process is part of the core vision for all students to graduate Tomahawk High School career and college ready. To support the individual needs of students, various options are being created to support student needs. Zero Hour courses are designed to meet the same academic standards and rigor as courses offered during the regularly scheduled school day and term. Zero Hour courses occur during the regular academic year and meet in the morning prior to the school day start.

*Depending on the course, students will meet each day or on specific dates throughout the term. See course descriptions for details.

*Students enrolled in a Zero Hour course are responsible for providing their own transportation to school.

*All absences and work completion policies apply to Zero Hour courses.

*All add/drop policies apply to Zero Hour courses.

*Students requesting Zero Hour courses are required to attend an informational meeting to review course and attendance requirements.

ZERO HOUR COURSES

EARLY BIRD PHYSICAL EDUCATION

Length of course: Fall - Semester 1
Days and times class will meet: M, T, W, TH, F 7:00 - 7:50 a.m. **PLEASE SEE COURSE DESCRIPTION FOR ATTENDANCE POLICY.**
Eligible grade levels: 9-10-11-12
Prerequisites for this course: None. ***This course may be repeated multiple semesters.
Course credit: .5 credit Course fee: None

ZERO HOUR STRENGTH & CONDITIONING

Time/Length of Course: Year-long - Monday, Wednesday, Friday from 6:30 a.m. to 7:20 a.m. when school is in session. **PLEASE SEE COURSE DESCRIPTION FOR ATTENDANCE POLICY.**
Eligible Grade Levels: Incoming 9-12 grade students
Prerequisites for this course: None
Course Credit: .5 PE credit (.25 per semester)
Course Fee: None
Additional Info: Students will need reliable self-transportation to school every day. This course may be repeated multiple times for Physical Education Credit.

NURSING ASSISTANT

Length of course: Semester
***Days class will meet: To be determined**
***Class time: 7:00 a.m. through first period**
Eligible grade levels: 11-12
Prerequisites: None, but Anatomy & Physiology and Medical Terminology are highly recommended
Course credit: 0.5 credit
Course fee: $10 fee for background check paid directly to Nicolet Area Technical College. College tuition is paid by the school district if the student passes the course. Please see page 9 for further information. Students will be responsible for the testing fee.
Additional information: Student must meet the eligibility requirements for the Start College Now program outlined on page 9.

What you will learn in this course:
Students learn to communicate and interact effectively with clients, family, and co-workers; maintain and protect client rights; report information and record observations; demonstrate the ethical and legal responsibilities of the NA/HHA; assist with client rehabilitation and restorative care, promoting independence; assist clients with long-term, disabling conditions including dementia; provide safe care to a diverse population to meet the physical and psychological needs of the client; work cooperatively in a team environment; and employ critical thinking as conditions change.

How you will learn in this course:
The instructional program for the Nursing Assistant technical diploma consists of lectures with laboratory practice and supervised clinical experience in local health care facilities. This program is approved by the Wisconsin Department of Health as a nurse aide training program. A technical diploma is granted for successful completion of 120 hours of instruction. Completion of this course leads to eligibility to take the Wisconsin Nurse Aide Competency Evaluation. This is a college course which will require approximately 2 hours of reading or studying for every hour spent in class with the instructor. The student will be required to complete some of the course work independently and/or online. Students receive 0.5 high school credit for this semester-long elective.

Why this course is important:
The nursing assistant is a vital member of the healthcare team. The nursing assistant carries out assigned duties under the direction of the professional nurse. Responsibilities include bathing, dressing, toileting, assisting with feeding, taking vital signs, ambulating, lifting and moving clients, and performing other selected nursing procedures. Through a partnership program between the WI DPI and WI Technical Colleges called Start College Now, this 3.0 credit Nicolet Area Technical College course is offered to THS students at our high school. Students will also complete a technical diploma through Nicolet Area Technical College and will have a college transcript at the successful completion of this course.

Fire Fighter I

Length of course: Semester
Eligible Grade Levels: 10 - 12 (must turn 16 by 1/20/26)
Prerequisites: None.
Course credit: 0.5 credit
Course fee: None. College tuition is paid by the school district if the student passes the course. Please see page 9 for further information.
Additional information: This course is open to 10th, 11th and 12th graders who will turn sixteen by Jan. 20, 2026. Student must meet the eligibility requirements for the Start College Now program outlined on page 9.

What you will learn in this course: This 96-hour course prepares the participant to be able to perform firefighting functions at the nationally recognized minimum levels under direct supervision.

How you will learn in this course: This course is designed to provide the Fire Fighter I candidate with the information needed to meet the job performance requirements (JPRs) defined in NFPA 1001, Standard for Fire Fighter Professional Qualifications, Current Edition. The participant must also complete the Hazardous Materials Operation level course in order to meet the remainder of the NFPA Fire Fighter I JPR requirements. Course curriculum is based on the Jones and Bartlett Fundamentals of Firefighter Skills and Hazardous Materials Response, current Edition.

Why this course is important: A written and practical skills certification exam is available to participants who successfully complete this course. A participant who completes this course and wishes to become certified has two years from the completion of the course to pass the exams. Participants must also pass a written exam for Hazardous Materials Operations in order to receive Fire Fighter I certification. Participants who successfully pass the certification exams will receive a State of Wisconsin Certificate with an IFSAC (International Fire Service Accreditation Congress) seal.

START COLLEGE NOW - WI Technical Colleges
EARLY COLLEGE CREDIT - UW Colleges

Start College Now Program

Any student in 11th or 12th grade may enroll in a course at a Wisconsin Technical College System campus through the Start College Now Program providing the student meets the requirements established by law and by the District and subject to approval of the Board of Education on an annual basis. A student or their parent/guardian must also complete the application form and submit it to the high school Guidance Office by March 1st if the student intends to enroll in the next fall semester or by October 1st if they intend to enroll in the spring semester. Any interested student should contact the Guidance Department to obtain the necessary information. (Board Policy 2271.01 – Start College Now Program)

Early College Credit Program

Any student in 9th, 10th, 11th, or 12th grade may enroll in the Early College Credit Program providing the student meets the requirements established by law and by the District and subject to the approval of the Board of Education on an annual basis. A student or their parent/guardian must also complete and submit the Intent To Participate Form available from the Guidance Office or the Department of Public Instruction to the high school administration by February 1st if the student intends to enroll in the summer session, by March 1st if the student intends to enroll in the next fall semester, and by October 1st if they intend to enroll in the spring semester. Any interested student should contact the Guidance Department to obtain the necessary information. (Board Policy 2271 – Early College Credit Program)

GRADUATION REQUIREMENTS AND GUIDELINES

It is the student's responsibility to complete all graduation requirements. For the Class of 2026, 22 credits are required for graduation. Beginning with the Class of 2027, 23 credits are required. Graduation requirements will be reviewed each year with the student and school counselor. Counselors, teachers, and parents will assist students in planning their programs so that they meet the following graduation requirements. Tomahawk High School graduation standards meet or exceed the graduation requirements established by the State of Wisconsin.

English	**4.0 credits**
English 9	1.0 credit
English 10	1.0 credit
English 11	1.0 credit
English 12 or Advanced Placement English	1.0 credit
Social Studies	**3.0 credits**
Global Studies	1.0 credit
United States History	1.0 credit
Economics	0.5 credit
Political Science	0.5 credit
Mathematics	**3.0 credits**
Pre-Algebra or Algebra I	1.0 credit
Algebra I or Geometry A	1.0 credit
Intermediate Algebra or Algebra II	1.0 credit
Science	**3.0 credits**
Biology	1.0 credit
Science Electives: Earth Science, Physical Science, Chemistry, Environmental Science, Physics A, Anatomy & Physiology, Advanced Placement Biology, and Principles of Engineering	2.0 credits
Physical Education	**1.5 credits**
Health	**0.5 credit**
Personal Finance	**0.5 credit**
Electives	**6.5 credits/7.5 credits beginning with Class of 2027**

PREPARING FOR UNIVERSITY AND TECHNICAL COLLEGES

The Academic & Career Planning process plays a vital role in a student's preparation for attending a four-year university. **Students must personally investigate specific schools to determine admission requirements and prepare accordingly.**

University of Wisconsin System

The table below is a list of general requirements for UW-System admissions criteria and can be found at UW Help. A minimum of 17 credits is necessary and in general will adhere to the chart below.

Subject Area	Description	Units/Credits (minimum)
English	For example, the study of the English language and literature. Courses include Freshman English, composition, literature, rhetoric, and others. Most regular and advanced courses are accepted.	4
Social Studies	For example, the study of culture, history, political science, economics, sociology, and psychology, including world studies, United States history, economics, civics, and others.	3
Mathematics	For example, the study of mathematics, including algebra, geometry, and other mathematics courses with algebra or geometry prerequisites.	3
Natural Sciences	For example, the study of the theory and practice of natural sciences, including ecology, biology, chemistry, physics, astronomy, earth science, geology, and others. Courses often include a lab.	3
Electives	Classes in your personal interests, including world languages*, fine arts, computer science, and other areas. **UW-Madison recommends 2 credits minimum of a single World Language*	4 minimum
There may be additional requirements, such as ACT or SAT score minimums.		

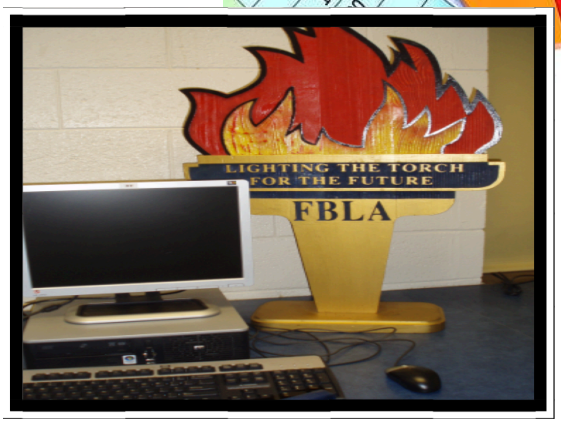
Wisconsin Technical College System
Common Criteria: Asset or Compass, ACT, Accuplacer
Technical College programs often have additional requirements for acceptance. (Math, Science, etc.) Example: Many associate degree programs at the technical colleges require one year of Algebra, and many may require Geometry and Algebra II as well. Medical programs at the technical colleges require Chemistry and Biology with a grade of **C** or higher.

Advanced Placement (AP) & Dual Credit Courses: Enrollment in AP and Dual Credit courses is an opportunity for all students to gain experience in advanced and rigorous coursework. This experience will include a rigorous curriculum and skill development needed for post-high school education. Students will also have the opportunity to earn college credits for successful completion of the course and/or end of course exam. Data shows that success in AP and Dual Credit courses directly impacts the success level of students pursuing education after high school graduation.

Business Department

COURSES

- Intro to Business & Marketing
- Computer Applications
- Accounting I and II
- Management & Entrepreneurship
- Personal Financial Planning
- THS Incorporated
- Yearbook/Marketing



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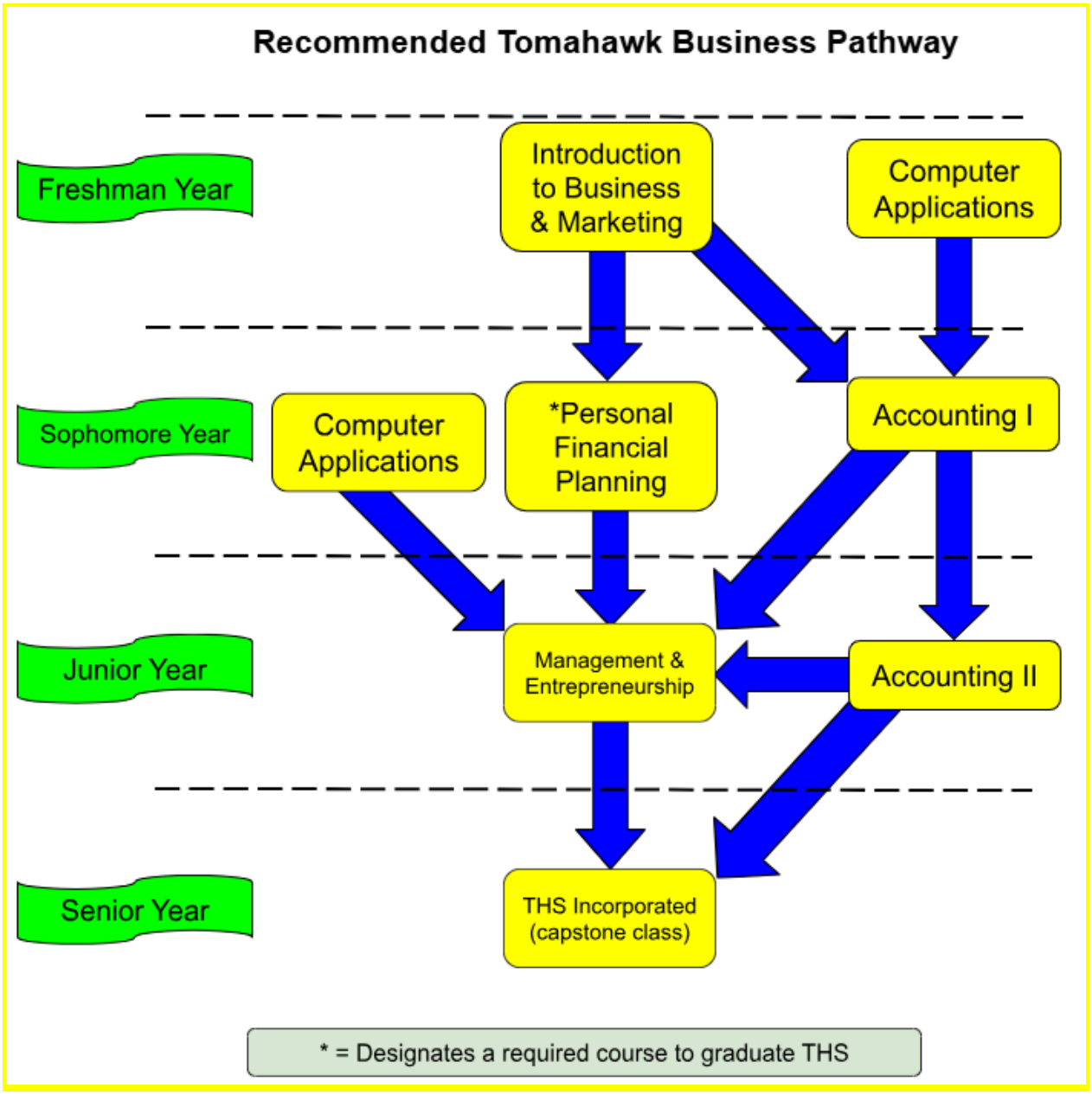
Recommended Tomahawk Business Pathway
Freshman Year
Introduction to Business & Marketing
Computer Applications
Sophomore Year
Computer Applications
*Personal Financial Planning
Accounting I
Junior Year
Management & Entrepreneurship
Accounting II
Senior Year
THS Incorporated (capstone class)
* = Designates a required course to graduate THS

General Career Field:	Business/Marketing	Management/ Entrepreneurship	Finance Manager
Description	Learn about management and promotion of brands, products, services and events related to personal, business and entrepreneurial success.	Learn concepts that prepare one for management careers as well as starting / operating your own business.	Learn money management concepts and assets related to personal, business and entrepreneurial success.
Relevant Courses (Grades you can take the courses)	Intro to BUSN & MKTG (9-12) Computer Applications (9-12) Personal Financial Planning (10-12) MGMT & Entrepreneurship (11-12) THS Incorporated (11-12)	Intro to BUSN & MKTG (9-12) Computer Applications (9-12) Personal Financial Planning (10-12) Accounting I (10-12) MGMT & Entrepreneurship (11-12) THS Incorporated (11-12)	Intro to BUSN & MKTG (9-12) Computer Applications (9-12) Personal Financial Planning (10-12) Accounting I (10-12) Accounting II (11-12) THS Incorporated (11-12)
Important Qualities	Marketing professionals are: *Future-thinking *Creative *Adaptable	Entrepreneurs and those in management are: *Future-thinking *Analytical *Creative *Risk-takers	Financial professionals are: *Analytical *Detail-oriented *Highly organized
Qualities in All	Those working in the fields of Marketing, Management, Finance, or who start & own their own businesses usually are: Organized, Responsible, Self-driven, Technology-literate, good with numbers, excellent people-persons, great communicators, work well individually and within teams.		

Introduction to Business and Marketing
Length of course: Semester
Eligible grade levels: 9-12
Prerequisites for this course: None
Course credit: .5 credit
Course fee: None
Additional info: This course is eligible for transcripted credit through Nicolet College at no additional cost to the student.

What you will learn in this course: Business makes our community and country a great place to live. Students will be introduced to the changing world of business and marketing in this course. A wide variety of foundations will be explored, including business terms and concepts, basic marketing principles, business careers, simple accounting, international business, human resources and e-commerce. This course will have a business focus. While there may be some small overlap with some curriculum in Economics, the business focus will give depth to material relating to business operations, differentiating it from Economics and its broader focus.

How you will learn in this course: Reading, discussion, instructor-guided, small groups, and project-based learning.

Why this course is important: A course focused on an introduction to basic business functions (global business, accounting, marketing, management, human resources, business law) is a proper introductory level course as well as serving to open the door to other courses that are currently offered (Management & Entrepreneurship, Accounting I & II, Leadership, and THS Incorporated).

Computer Applications
Length of course: Semester
Eligible grade levels: 9-12
Prerequisites for this course: None
Course credit: .5 credit
Course fee: None
Additional info: Students will have the opportunity to earn industry recognized software certifications in Microsoft Word, Excel, and PowerPoint. This course is eligible for transcripted credit through Nicolet College at no additional cost to the student.

What you will learn in this course: Students will begin by learning and implementing email management, email signatures, and creating business professional emails. Students will become proficient users of industry recognized software systems including Microsoft Word, Excel, and PowerPoint. Students will learn real world applications for these Microsoft software suites while completing various exercises and projects with the goal of earning industry recognized software certifications.

How you will learn in this course: Computer based learning, instructor-guided, independent learning, project-based learning, and cooperative learning.

Why this course is important: This course is essential for students to develop computer software skills necessary for various computer applications including but not limited to; professional presentations, data analyzing, data organization, financial reports, planning, making and formatting documents, presentations, and emails. All invaluable skills for further success in high school and future success in higher education and industry.

Accounting I

Length of course: Semester
Eligible grade levels: 10-12
Prerequisites for this course: None
Course credit: .5 credit
Course fee: None
Additional info: This course is eligible for transcripted credit through Nicolet College at no additional cost to the student.

What you will learn in this course: The goal of this challenging course is to provide accounting skills necessary for accounting and business careers. Enrolled students will understand the fundamentals of accounting, nature of business and accounting, generally accepted accounting principles, the accounting equation, business transactions and the accounting equation, financial statements, using accounts to record transactions, double entry accounting systems, posting journal entries to accounts, trial balance, discovery and corrections of errors, the adjusting process and completing the accounting cycle.

How you will learn in this course: Instructor-guided, independent learning, computer based learning, project based learning.

Why this course is important: Accounting is considered the international language of business and this class will help students interested in entrepreneurship or any business related careers. Students completing both Accounting I and II can earn advanced standing at Nicolet Technological College in Accounting.

Accounting II

Length of course: Semester
Eligible grade levels: 10-12
Prerequisites for this course: Successful completion of Accounting I
Course credit: .5 credit
Course fee: None
Additional info: This course is eligible for transcripted credit through Nicolet College at no additional cost to the student.

What you will learn in this course: The goal of this course is to provide accounting skills necessary for accounting and business careers. Enrolled students will be taught how to use a computerized accounting system, accounting for merchandising businesses including financial statements, merchandising transactions, the adjusting and closing process and financial analysis and interpretations. Students will also learn payroll accounting.

How you will learn in this course: Instructor-guided, independent learning, computer based learning, project-based learning.

Why this course is important: Accounting is considered the international language of business and this class will help students interested in entrepreneurship or any business related careers further their knowledge of the accounting cycle and using a computerized accounting system. Successful completion of Accounting I is required to enroll in Accounting II.

Management & Entrepreneurship

Length of course: Semester
Eligible grade levels: 10-12
Prerequisites for this course: Successful completion of Intro to Business & Marketing
Course credit: .5 credit
Course fee: None
Additional info: This course is eligible for transcripted credit through Nicolet College at no additional cost to the student.

What you will learn in this course: This course focuses upon topics within Management and Entrepreneurship including owning and operating a business, rewards and challenges of entrepreneurship, developing a business plan, business ownership and operations, business management, management functions, management structures, leadership in management, leadership qualities, leadership styles, technology and business, e-commerce, human resources management, culture and diversity in business, financial and technological resources, managing business finances, technology in the workplace, information technology, business Internet basics, and evaluating computer hardware and software for business.

How you will learn in this course: Project-based learning, instructor-guided, independent learning, computer-based learning, cooperative learning.

Why this course is important: The goal of this course is to help students understand economic concepts and develop business entrepreneurial and leadership skills as workers, consumers, and citizens. This course builds a foundation for essential 21st century skills for students interested in entrepreneurship, computers, business, and finance career pathways.

Personal Financial Planning

Length of course: Semester
Eligible grade levels: 10-12
Prerequisites for this course: None
Course credit: .5 credit
Course fee: None
Additional info: This course is eligible for transcripted credit through Nicolet College at no additional cost to the student. This course is required for graduation.

What you will learn in this course:
Students gain knowledge and practice using banking services including checking account management, automobile and home loans, student financial aid, how to use credit wisely, plan savings and investments, select appropriate insurance coverage, and develop techniques for personal financial management.

How you will learn in this course:
Instructor-guided, project based learning, independent learning, computer based learning, cooperative learning, and some simulation.

Why this course is important:
This course is essential for students to develop financial skills for personal and family well-being; balancing work and family; management of resources; financial services and responsibilities; responsible use of credit; consumer decisions; and rights and responsibilities of consumers.

THS Incorporated

Length of course: Year
Eligible grade levels: 11-12
Prerequisites for this course: Student MUST have previously passed AT LEAST ONE business department course (NOT including Personal Financial Planning). It is highly recommended, but not required, that students have previously taken Computer Applications and Accounting I.
Course credit: 1 credit
Course fee: None
Additional info: Students taking this course should be prepared to commit to this course for the entire school year (two semesters). This course is eligible for transcripted credit through Nicolet College at no additional cost to the student.

What you will learn in this course: Real-world application of the wide variety of business content students have learned about in previous business department courses (inventory management, accounting, personnel and operations management, marketing and sales, website management and e-commerce, etc.) through operation of the school store. Students will learn and implement the role of marketing in our economy and society, characterize consumer and customer decision making, use the four principles of marketing, various methods of marketing media, utilize marketing segmentation and target markets, instill marketing ethics, implement selling and sales management, and monitor product life cycles, profit goals, and pricing of products.

How you will learn in this course: Project-based learning, hands-on learning, instructor-guided, independent learning, computer-based learning, and cooperative learning.

Why this course is important: This course gives students the opportunity to apply what they have learned in previous business courses through running a school-based enterprise. To be successful and achieve the different goals of operation, students will have to apply for various positions through an interview process after registering, then set up and follow processes and procedures to grow and diversify the goods and services offered by the store, both in face-to-face sales and online. Student teams will set various goals and operational aspects of the store, which students will be held accountable for achieving. All of these activities and skills apply directly to various opportunities in business fields.

Yearbook/Marketing
Length of course: Semester
Eligible grade levels: 9-12
Prerequisites for this course: None
Course credit: .5 credit
Course fee: None

What you will learn in this course: This course is devoted to the production of the school yearbook and the development of general publishing skills. Students will learn all phases of yearbook production: page layout, creative photography (you will be issued a professional grade camera for the semester), copywriting, editing, and publicity. Together we plan a yearbook ladder, complete various page topics and photo assignments, learn to write short but interesting captions, and use computer programs to produce the book. Yearbook students are considered staff of this small, non-profit business, and are expected to be responsible, self motivated, and prompt in meeting deadlines. In doing so, students learn how to create lasting memories and to express a story through the use of words and pictures.

How you will learn in this course: Project based learning, instructor-guided, independent learning, computer based learning, and cooperative learning.

Why this course is important: While the primary objective of the yearbook class is to produce the annual school yearbook, students will gain much more. Students will derive an incredible sense of accomplishment, will develop as members of a team, develop business and computer skills, and will expand their social perspective as they strive to meet the diverse needs of every student on the Tomahawk High School campus.

English Department

COURSES

- English Language Arts 9
- English Language Arts 10
- English Language Arts 11
- English Language Arts 12
- AP English Literature & Composition

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English Language Arts 9
Length of course: Year
Eligible grade levels: 9
Course credit: 1 credit
Course fee: None

What you will learn in this course:
English Language Arts 9 focuses on developing literacy appreciation through reading, writing, listening and speaking. Successful students will develop confidence and advance their ability to express ideas, emotions and experiences. Quarter one involves reading and responding to narrative texts such as short stories and poetry, as well as composing a short narrative about an imagined experience that reveals insight into the human experience. Students will also self-select and read several informational texts about a significant international figure, conduct research, collaboratively discuss their findings and produce and publish a narrative about that significant international figure. In quarter two we read Shakespeare's *Romeo and Juliet* while tracing its development of theme, analyzing characters, determining meaning of phrases and analyzing the play's structure. Students form collaborative work groups and investigate how themes are represented in a variety of literature and informational texts. They will analyze how theme is presented, and draw evidence from texts and discussions to write a reflective analysis. Finally, they will choose a global topic, create an inquiry question, conduct research, summarize findings and promote global awareness to their peers by presenting their findings using technology. During the third quarter, student groups select and read a novel on the same timeless theme and write a literary analysis. They then analyze arguments from mentor texts, including seminal U.S. documents, and write an argumentative essay. Finally, students will create a presentation based on their argument and share with others. In the fourth quarter student groups select and read a realistic fiction novel to discuss and analyze. They conclude by creating a research-based realistic narrative with embedded research.

How you will learn in this course:
This course is theme-based, encouraging students to read and analyze critically to determine authors' purposes and writing techniques, which they can then apply to their own writings. To accommodate diverse learning styles, interests and abilities, students are given a great deal of choice in their readings, learning activities, presentations and group projects.

Why this course is important:
Upon successful completion, students will have built a solid foundation of knowledge, skills, and strategies that will be refined, applied, and extended as students move through the high school curriculum where they must engage in more complex ideas, texts, and tasks. ELA 9 students will connect with and respond to texts by analyzing relationships within and across families, communities, societies, governments, and economies. They will begin to consider how they build relationships, how their relationships impact others, and their responsibility to society.

English Language Arts 10
Length of course: Year
Eligible grade levels: 10
Prerequisites: English Language Arts 9
Course credit: 1 credit
Course fee: None

What you will learn: We will cover the following components of the tenth grade Curriculum Companion that our district has adopted: Reading and Responding to Narrative Texts, Writing Narrative Texts, Reading and Responding to Journalistic Texts, Writing Journalistic Texts, Mythology in Words and Art, Analyzing a Topic Related to Morals and Ethics, Transcending Themes in Literature, Analyzing and Writing an Argument, Presenting an Argument: A Call for Change, Reading Historical Fiction, and Writing Historical Fiction.

How you will learn: You will learn by reading, researching, and analyzing the written word; by applying grammar, spelling, and vocabulary to the writing process; and by speaking, listening, and interacting with others.

Why this course is important: In order to be a high-functioning, literate, and intelligent member of society, you need to be able to read; effectively analyze and problem solve; cooperate and communicate with others; and understand and apply the basics of grammar, literature, spelling, vocabulary, and speech communication in whatever you do. No matter what course your life ends up following, you will use the skills you acquire in an English classroom every single day.

English Language Arts 11
Length of course: Year
Eligible grade levels: 11
Course credit: 1 credit
Course fee: None

What you will learn in this course: Successful students in this course will advance their skills in critical thinking, reading, writing, listening and speaking as we cover all of the grade 11 English Language Arts state standards. Unit One: Survival involves reading and analyzing short stories and the novel *Call of the Wild*, then composing a research-based survival guide. In Unit 2: Conflicts and Courage, student groups select and read an apocalyptic novel to discuss and analyze, and they each write a research-based apocalyptic narrative. For Unit 3 we read and analyze Shakespeare's *Macbeth*, following up with a *Macbeth* script writing project. Unit 4: Myths and Monsters explores the major characters and stories of ancient Greek mythology through short stories, poems and reader's theater. Student groups write and read their own reader's theater script for the class. Unit 5: The Price of Deviance and Conformity begins with student-chosen historical fiction novels and closes with presentations on important historical events that continue to shape our world. The final unit--comedy--allows students to explore the art of humor through short stories, stand-up comics, and a funny project of their own to share with the class.

How you will learn in this course: This course is theme-based, encouraging students to read and analyze critically to determine authors' purposes and writing techniques, which they can then apply to their own writings. To accommodate diverse learning styles, interests and abilities, students are given a great deal of choice in their readings, learning activities, presentations and group projects.

Why this course is important: Upon successful completion students will have advanced their skills in critical reading, interpretive analysis, effective writing and communication to aid in their post-secondary schooling, careers and personal lives.

English Language Arts 12
Length of course: Year
Eligible grade levels: 12
Course credit: 1 credit
Course fee: None

What you will learn in this course: Successful students in this course will advance their skills in critical thinking, reading, writing, listening and speaking as we cover all of the grade 12 English Language Arts state standards. Unit one involves reading and analyzing poems and essays, and in unit two we study personal essay writing, with the chance to write your THS scholarship essay (so you don't have to in the spring). For unit three students produce a formal research paper using APA documentation. In the fourth unit students select and read a science fiction novel to discuss and analyze, then create a research-based science fiction narrative. In unit five we read, discuss and analyze Shakespeare's *Hamlet*. Students create social awareness of a *Hamlet* theme through a scene mock-up. For the final unit, student groups select and read a novel of constitutional significance, develop an analysis of it, then create a presentation concerning their constitutional issue in our society.

How you will learn in this course: This course is theme-based, encouraging students to read and analyze critically to determine authors' purposes and writing techniques, which they can then apply to their own writings. To accommodate diverse learning styles, interests and abilities, students are given a great deal of choice in their readings, learning activities, presentations and group projects.

Why this course is important: Upon successful completion, students will have advanced their skills in critical reading, interpretive analysis, effective writing and communication to aid in their post-secondary schooling, careers and personal lives.

Advanced Placement English Literature & Composition
Length of course: Year
Prerequisite for this course: Successful completion of ELA 9,10,11 and with teacher recommendation
Course credit: 1 credit
Course fee: Students will be encouraged to take the AP exam at the end of the course which requires a fee.

What you will learn in this course: **Reading:** Students will read literature from several genres and periods – from the 16th to the 21st century. More importantly, students will read deliberately and thoroughly to get to know a few works well. **Writing:** Writing assignments focus on the critical analysis of literature and include expository, analytical, and argumentative essays. Although critical analysis makes up the bulk of student writing for the course, well-constructed creative writing assignments may help students see from the inside how literature is written.

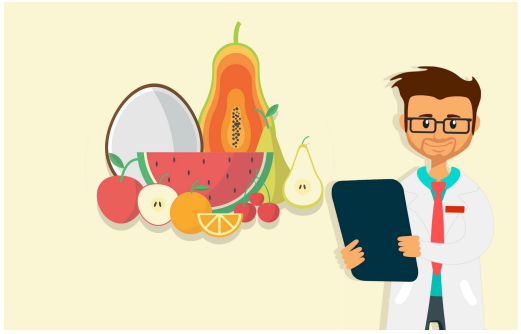
How you will learn in this course:
Students in an AP English Literature and Composition course read actively. The works taught in the course require careful, deliberative reading. The class will explore a variety of techniques and materials, ranging from the course textbook, novels, film study, discussion, debate, and a lot of writing.

Why this class is important:
For the motivated student in 12th grade, this class will offer a rigorous approach to your understanding of not only literature and writing, but how you can get better at each. A student presenting a score of 3 or higher on the AP English Literature and Composition Exam might expect to receive credit for both the composition course and the literature course at some colleges and universities.

Family & Consumer Science Department

COURSES

- Culinary Basics
- Culinary Creations
- Culinary Art
- Family Relations
- Working with Children
- Medical Terminology



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Culinary Basics: Basic Food Preparation Skills
Length of course: Semester
Eligible grade levels: 9-12
Prerequisites for this course: None
Course credit: .5
Course fee: $10.00 (must be paid by the end of the first week of class)

What you will learn in this course: Whether you like to cook and eat or have never cooked before, this course helps you learn the essential basics. You will learn how to help prepare foods for your family as well as for yourself once you are on your own. Students focus on the development of skills in food preparation and baking. Students will learn and practice safety and sanitation, basic knife skills, common recipe/measuring procedures, use and care of equipment/appliances, as well as some of the mother sauces. Students will take part in a project that teaches them cupcake decorating techniques.

How will students learn in this course: Students are expected to work cooperatively with a group while producing a variety of foods. Labs will take place one to two days a week. There will be occasional written work and group projects.

Why this course is important: This class will teach the inexperienced person new concepts while challenging the proficient cook in perfecting their skills. Additionally, you will learn lifelong skills to help you achieve a healthy lifestyle. For students interested in culinary arts as a career, this is the first of 3 courses that provide you with essential basics needed for future culinary classes and post-secondary education.

Culinary Creations: Creative Cooking/Intro. To Culinary Arts
Length of course: Semester
Eligible grade levels: 10-12
Prerequisite: Culinary Basics
Course credit: .5 credit and 3 credits with Nicolet College
Course fee: $10.00 (must be paid by the end of the first week of class)
Additional info: Students who complete the class with a "B" or higher will receive 3 transcripted credits to Nicolet Area Technical College 10-316-125 Food Theory Class.

So you think you know how to cook? Test your skills in this class as we move beyond the basics to learn more advanced concepts. Students will continue to learn about the mother sauces, practice knife skills, follow safety and sanitation procedures and to work effectively with others in lab. This course is meant to build upon the skills learned in Culinary Basics. Explore food science principles applied to professional culinary food preparation. Units studied include professional kitchen operation, recipe terminology, and cooking techniques for various food categories. There will also be units on regional and international cuisine as well as cake baking and decorating.

How will you learn in this course: Students are expected to work cooperatively with a group while producing a variety of foods. Labs will take place one to two days a week. There will be occasional written work and a major group project.

Why this course is important: This class will teach the person with basic skills new concepts while challenging the proficient cook to perfect their skills. Additionally, you will learn lifelong skills that will help you at home and in the world of work. This course is beneficial for anyone working in the foods industry or going into a foods-related career.

Culinary Art: Culinary Art/ServSafe

Length of course: Semester
Eligible grade levels: 10-12
Prerequisite: Culinary Basics
Course credit: .5 credit and 2 credits with Nicolet College
Course fee: $10.00 (must be paid by the end of the first week of class)
Additional info: Students who complete the class with a "B" or higher will receive 2 transcripted credits to Nicolet Technical College 10-316-121 Sanitation and Safety Fundamentals.

What will you learn in this course: Do you find that you really enjoy cooking or have you ever thought about pursuing a Culinary Arts degree? If so, this is the class for you! Culinary Arts is designed for students who are interested in the areas of foodservice and hospitality. Students will participate in mass production sales during a fundraiser. The class also applies sanitary, safety, and legal principles and practices in the foodservice industry. Successful completion of the course enables students to take a national sanitation certification examination. Students will have the opportunity to become ServSafe certified.

How you will learn in this course: Students are expected to work cooperatively with a group while producing a variety of foods. Labs will take place one to two days a week. There will be occasional written work and a major group project.

Why this course is important: This class builds on the skills learned in Culinary Basics and Culinary Creations. It provides valuable experience for any student interested in a foods-related job or career. ProStart and ServSafe are excellent programs that help a young person prepare for the world of work and further education after graduating from high school.

Family Relations

Length of course: Semester
Eligible grade levels: 10-12
Prerequisites for this course: None
Course credit: .5 credit
Course fee: None

What you will learn in this course:
The goal of this course is to prepare both male and female students with the necessary knowledge and skills needed for successful personal and family relationships through discussion and evaluation. Different skills on how to handle what life gives you. Course content will include building relationships, communication skills, conflict solutions, living in families, changing lifestyles, family breakdown (death and divorce) and dealing with the aging process.

How you will learn in this course:
Large and small group discussion. Reading, writing, problem solving, and critical thinking.

Why this course is important:
This class is a handbook on life!

Working with Children
Length of course: Semester
Eligible grade levels: 11-12
Prerequisites for this course: None
Course credit: .5 credit and 3 credits with Nicolet College
Course fee: None
Additional info: Students who complete the class with a "B" or higher will receive 3 transcripted credits to Nicolet Technical College 10-307-148 ECE: Foundations of Early Childhood Education.

What you will learn in this course: Do you enjoy kids and find that they seem to like you? Have you ever thought about a career as a teacher, child care professional or a pediatric doctor? Do you plan on being a parent someday? If so, this class is for you! Learn about children and their development from prenatal through the fifth year. Learn techniques on what to do for the child who throws a temper tantrum, talks back, or simply won't listen. Learn basic teaching skills by writing and implementing simple lesson plans. Explore how family related issues affect a child's development. By the end of this class, you should know the rewards and responsibilities associated with caring for and educating young children. You will also receive the following Certifications/Training:

- Sudden Infant Death Syndrome (SIDS)
- Shaken Baby Syndrome (SBS)
- Mandated Reporter Training
- Assistant Childcare Teacher (ACCT)
- Infant/Toddler (IT)

How you will learn in this course: This project-based course will have you learning new skills through daily assignments, multimedia presentations, hands-on activities and various projects. We will also get the opportunity to observe and work with children in a daycare setting.

Why this course is important: This class will teach you about the responsibilities of caring for and educating children. It will also provide you with strategies for modifying a child's behavior and guiding their social, emotional, and intellectual growth.

Medical Terminology
Length of course: Semester
Eligible grade levels: 11-12
Prerequisites: None
Course credit: .5 credit and 3 credits with Nicolet College
Course fee: None
Additional info: Students who complete the class with a "B" or higher will receive 3 transcripted credits to Nicolet Technical College 10-501-101 Medical Terminology.

What you will learn in this course: This course will focus on the component parts of medical terms: prefixes, suffixes, and word roots. The students will practice formation, analysis, and reconstruction of terms. Emphasis on spelling, definition and pronunciation. Introduction to operative, diagnostic, therapeutic and symptomatic terminology of all body systems, as well as systemic and surgical terminology.

How will you learn in this course: Project Based learning, Instructor Led, Independent Learning, Computer Based Learning, Cooperative Learning.

Why this course is important: A basic requirement for entry into almost any healthcare-related career is a command of medical terminology. The ability to recognize, understand, spell, and pronounce basic medical terms, identify medical abbreviations, and decipher unfamiliar words using roots, suffixes and prefixes is a necessary tool to perform well in any medical setting.

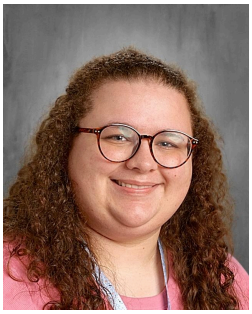
Fine Arts Department

ART COURSES

- Painting
- Drawing
- Intro to Ceramics
- Advanced Ceramics
- Digital Multimedia
- Graphic Design Concepts
- Advanced Digital & Graphic Applications*

**Advanced course offered beginning in 2026-27 school year*

MUSIC COURSES



- Chamber Choir
- Concert Band

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Concert Band
Length of course: Year
Eligible grade levels: 9-12
Prerequisites for this course: Successful completion of a previous band course or audition with instructor
Course credit: 1 credit
Course fee: None
Additional info: Band attire - Black dress pants, shoes and socks required for all. Black long-sleeved button up shirt for gentlemen, and black blouse/top for women.

What you will learn in this course: You will develop comprehensive musicianship that equips you to be a lifelong learner and passionate advocate for music. Through engaging in diverse musical experiences, you'll master instrumental techniques, refine your musical interpretation, and cultivate a deep understanding of music. This course empowers you to think critically about music and apply your skills creatively in various performance contexts.

How you will learn in this course: You will participate in large group rehearsals, focused sectional practices, and individual lessons that challenge you to hone your craft. Regular performances, both in-class and in community events, provide opportunities to apply your skills in real-world settings while receiving constructive feedback. This immersive environment fosters growth through collective learning, ensuring that every student thrives.

Why this course is important: Participating in a concert band is a unique and enriching experience that stimulates the brain and enhances cognitive abilities like no other activity. The discipline and teamwork required in band develop essential life skills such as collaboration and problem-solving. Moreover, performing alongside peers who share common artistic goals creates a supportive community and lasting friendships. Learning music not only deepens your appreciation for the arts but also contributes to a more balanced, fulfilling, and enriched life.

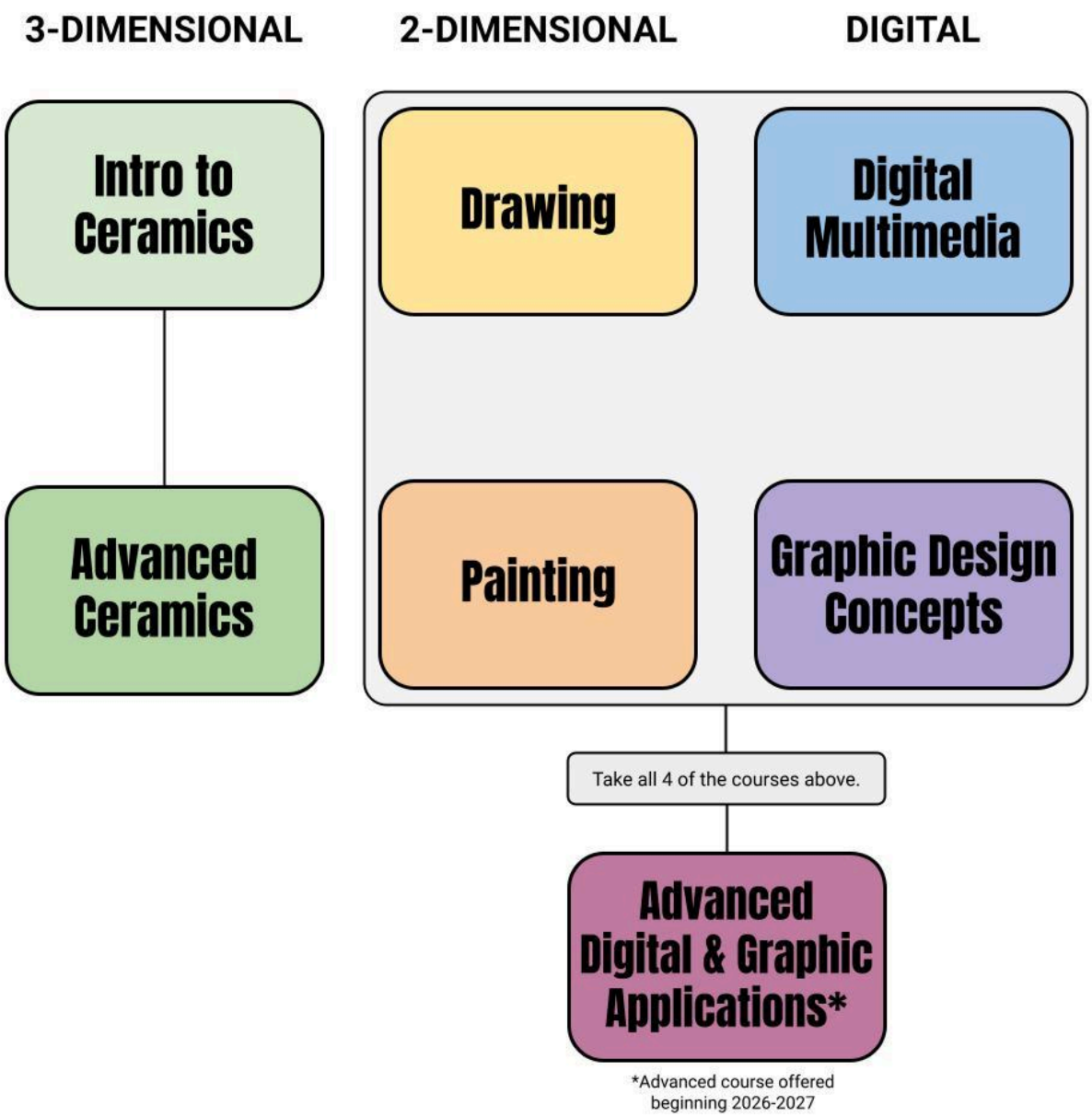
Chamber Choir
Length of course: Year
Eligible grade levels: 9-12
Prerequisites for this course: Successful completion of a middle school choir course OR audition with instructor.
Course credit: 1 credit
Course fee: None

What you will learn in this course: You will develop the skills to be a life-long singer. Chamber Choir takes the harmony-singing skills you learned in middle school choir and builds them, learning to sing pieces in 4- to 8- part harmony and a capella (voices only) music. You will keep building your knowledge of healthy singing technique so that you can use the full capability of your voice through your entire vocal range. Chamber Choir is designed to be a four-year experience. Our repertoire changes every year, giving us fresh challenges as we build skills. Chamber Choir isn't just a class--it's a community and a family.

How you will learn in this course: We sing. Specifically, we sing all styles of music from the early Renaissance (ca. 1400) to basically all the styles of our present era. Chamber Choir students participate in individual or small group lessons so that the learning is personalized for your needs and interests. In addition, there are many co-curricular opportunities open to students, such as Solo & Ensemble Festival (including State Festival), festival and honors choirs (All-Conference, Dorian, SIW, etc.), Carol Choir, and fine arts field trips.

Why this course is important: Students in a music ensemble course learn to think creatively and to put ideas together in new ways (synthesis). There is no more important "21st Century Skill" than creative thinking and problem-solving. Also, the Fine Arts wrestle with the big questions of who we are as individuals and what it means to be human. Musicianship gives a person a window into one's own self as well as an introduction to people in other times and places.

TOMAHAWK HIGH SCHOOL ART COURSES



3-DIMENSIONAL ART COURSES

Introduction to Ceramics
Length of course: Semester
Eligible grade levels: 9-12
Prerequisites: none
Course credit: .5 credit
Course fee: $10

What you will learn: This course provides students with an opportunity to create functional and decorative ceramic pieces while learning various ways to form and manipulate clay. Students will gain fundamental skills in both hand-building and wheel-throwing techniques. Hand-built projects will focus on the pinch, coil, and slab methods. The pottery wheel will also be introduced with expectations for basic levels of achievement, including cylinder and bowl forms. This entry level course will focus on basic glaze finishes. Clay works created in this class, whether functional or sculptural, will be enjoyed for a lifetime!

How you will learn: Students will learn by doing through teacher demonstrations, in-class discussions and projects.

Why this course is important: This course is important for developing three dimensional thinking and producing finished, functional and nonfunctional displayable work.

Advanced Ceramics
Length of course: Semester
Eligible grade levels: 9-12
Prerequisites: Intro to Ceramics
Course credit: .5 credit
Course fee: $15

What you will learn: This course will give students an opportunity to use their prior knowledge and experience to form a deeper understanding of clay. Students will explore and expand on a variety of ceramic techniques, including more complex hand-built and wheel-thrown forms. Emphasis for this class shifts from learning basic techniques to achieving a higher level of craftsmanship and personal expression.

How you will learn: Students will learn by doing through teacher demonstrations, in-class discussions and projects.

Why this course is important: Students will learn to be self-motivated, independent thinkers. Students will develop maturity and confidence with their ceramic and clay sculpture skills.

2-DIMENSIONAL ART COURSES

Drawing
Length of course: Semester
Eligible grade levels: 9-12
Prerequisites: None
Course credit: .5 credit
Course fee: $10

What you will learn: This course is for the student who would like to focus on creating two-dimensional artwork using various drawing mediums such as pencil, charcoal, pen & ink, and colored pencil. This course is designed to provide students with the foundations of artistic expression through drawing. Students will learn how to manipulate the design elements and principles of art, as well as use a variety of media to communicate ideas creatively.

How you will learn: Students will learn by doing through teacher demonstrations, in-class discussions and projects.

Why this course is important: This course is an important enhancement to creative problem solving and hands-on learning. It will teach students how to develop visual thinking skills needed in today's visually-oriented society.

Painting
Length of course: Semester
Eligible grade levels: 9-12
Prerequisites: None
Course credit: .5 credit
Course fee: $10

What you will learn: This course is for the student who would like to focus on creating two-dimensional artwork using various painting mediums such as watercolor, gouache, acrylic, and oil. This course is designed to provide students with the foundations of artistic expression through painting. Students will learn how to manipulate the design elements and principles of art, as well as use a variety of media to communicate ideas creatively.

How you will learn: Students will learn by doing through teacher demonstrations, in-class discussions and projects.

Why this course is important: This course is an important enhancement to creative problem solving and hands-on learning. It will teach students to think outside the box and enhance two dimensional visual thinking skills and confidence in producing finished artwork.

DIGITAL ART COURSES

Digital Multimedia

Length of course: Semester
Eligible grade levels: 10-12
Prerequisites: None
Course credit: .5 credit
Additional info: Students in Grades 11 and 12 who successfully complete this class will also have the opportunity to earn college credit through Northcentral Technical College. Students in Grade 10 are not eligible for college credit.

What you will learn: This course introduces students to using a digital camera as an art-making tool. The course will use digital photography to help students learn and apply the elements of art and the principles of design. Students will learn the basic concepts of digital photography, including digital camera functions and image capturing techniques. Additionally, students will edit digital images using industry software programs such as Adobe Photoshop to enhance and prepare photos for a variety of applications in our digital world.

How you will learn: Students will learn by doing through teacher demonstrations, in-class discussions and projects.

Why this course is important: This course allows you to become a visual storyteller, using your creativity and design skills to develop, edit, and manipulate images as well as other digital media.

Graphic Design Concepts

Length of course: Semester
Eligible grade levels: 10-12
Prerequisites: None
Course credit: .5 credit
Additional info: Students in Grades 11 and 12 who successfully complete this class will also have the opportunity to earn college credit through Northcentral Technical College. Students in Grade 10 are not eligible for college credit.

What you will learn: This course acquaints students with using digital media techniques to create art. Students will use industry software programs such as Adobe Illustrator and InDesign. Course concepts include basic design principles, computer illustration techniques, typography, storage and file management, and copyright/ethical issues.

How you will learn: Students will learn by doing through teacher demonstrations, in-class discussions and projects.

Why this course is important: This course allows you the opportunity to begin creating visual designs using digital illustrations and typography in order to communicate a message that informs, inspires, and/or captivates others and delivers it in the most impactful way possible.

<u>Advanced Digital and Graphic Applications</u>*

**NOTE: Advanced course offered beginning in 2026-27 school year*

Length of course: Semester

Eligible grade levels: 12

Prerequisites: Drawing, Painting, Digital Multimedia, AND Graphic Design Concepts

Course credit: .5 credit

Additional info: Students who successfully complete this class will also have the opportunity to earn college credit through Northcentral Technical College.

<u>What you will learn:</u> This course is designed for the student who is serious about art and/or may be considering a post-high school career in graphic design. Various software applications will be integrated in the creation process. Emphasis will be placed on solving advanced visual problems and creating quality work. Students will utilize problem-solving techniques to guide them through the process of organizing a complete project from initial concept to final product.

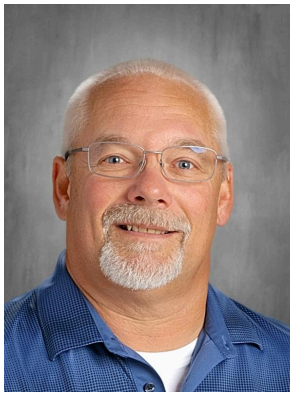
<u>How you will learn:</u> Students will learn by doing through teacher demonstrations, in-class discussions and projects.

<u>Why this course is important:</u> This course is designed to give students the opportunity to apply graphic design and digital media principles by providing students with real-world scenarios. Students become knowledgeable in design thinking as a means to identify problems and create possible solutions.

Health & Physical Education Department

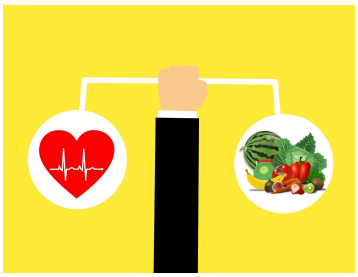
PHYSICAL EDUCATION COURSES

- Sport & Fitness
- Adventure Fitness
- Early Bird Physical Education
- Zero Hour Strength & Conditioning



HEALTH COURSES

- Health
- Advanced Health



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Per DPI requirements, Physical Education credits are to be earned over 3 separate academic school years.

Sport & Fitness
Length of course: Semester
Eligible grade levels: 9-12
Prerequisites for this course: None
Course credit: .5 credit
Course fee: None
Additional info: This course may be repeated multiple times for required physical education credit.

What you will learn in this course: Students learn healthy lifestyle skills to develop fitness levels, personal wellness, sports skills and knowledge through lifetime fitness, team and individual sports. Students will gain knowledge in the components of various sports including how to physically train the body, offensive and defensive strategies, and understanding official game rules. This course gives the student the opportunity and necessary tools to understand and experience each sport from all perspectives including a player, a coach, and an official. Units of instruction include fitness (including fitness technology), team activities, individual activities, and lifetime fitness. Emphasis is placed on students analyzing skills for effective movement.

How you will learn in this course: Students will be empowered to make choices, meet challenges and develop positive behaviors in fitness, wellness and movement activity for a lifetime. Emphasis is placed on introducing students to a variety of skills and activities. Students learn through competitive and non-competitive environments which include large and small group instruction, health enhancing technology, lecture, hands-on lessons, and fitness components.

Why this course is important: This course is designed to give students the opportunity to learn through a comprehensive sequentially planned Physical Education program in accordance with the Wisconsin Standards for Physical Education.

Adventure Fitness
Length of course: Semester
Eligible grade levels: 11-12
Prerequisites for this course: Must have successfully completed 1 credit of physical education through a combination of Sport & Fitness/Early Bird PE/Zero Hour Strength & Conditioning
Course credit: .5 credit
Course fee: None

What you will learn in this course: This class is designed for the student who likes the outdoors and a variety of activities in their workouts. Students will learn proper techniques, safety, and injury prevention, benefits of each activity/exercise and other topics. This class stresses lifetime activities and fitness. Units of instruction may include: Introduction to personal fitness, personal fitness concepts and techniques, cardiorespiratory endurance training, nutrition, disc golf, rollerblading, canoeing/kayaking, biking, snowshoeing/cross country skiing, strength training, and adventure education. Activities may vary each semester due to the weather, and other activities will also be introduced in this class. Emphasis is placed on students developing a personalized fitness program for a healthy lifestyle.

How you will learn in this course: Students will be empowered to make choices, meet challenges and develop positive behaviors in fitness, wellness and movement activity for a lifetime.

Why this course is important: This course is designed to give students the opportunity to learn through an advanced comprehensive sequentially planned Physical Education program aligned with the Wisconsin Standards for Physical Education.

Per DPI requirements, Physical Education credits are to be earned over 3 separate academic school years.

Early Bird Physical Education
Length of course: Semester
Days class will meet: M, T, W, TH, F Class time: 7:00 AM-7:50 AM
Eligible grade levels: 9-10-11-12
Prerequisites for this course: None
Course credit: .5 credit Course fee: None
Additional info: This course may be repeated multiple times for required physical education credit.

Important attendance information: Student attendance is critical to successfully completing the academic requirements of the Early Bird PE course. Course standards require knowing, understanding and applying knowledge/skills. These standards are taught and observed in specific activities that are not able to be replicated in Phy Ed intervention during Resource Hour due to the time, location, equipment and student collaboration needs. Therefore, students are not able to complete course academic requirements if they do not attend class during the regularly scheduled Zero Hour period.

To maintain academic integrity and promote student success, any student who is absent from Zero Hour class for three occurrences will be evaluated for possible removal from Early Bird PE. Removal from class may result in having to enroll in another PE offering the next semester.

What you will learn in this course: Students will learn healthy lifestyle skills in order to help develop fitness levels, personal wellness, sports skills and knowledge through lifetime fitness, adventure education, team and individual sports. Each unit of instruction will encompass the application of any or all of the 5 health and 6 skill related components of fitness. In addition, where applicable we will introduce the students to the resources available in our community and the surrounding area.

How you will learn in this course: Students will be empowered to make choices, meet challenges and develop positive behaviors in fitness, wellness and movement activity for a lifetime. Emphasis is placed on introducing students to a variety of skills and activities. Students learn through competitive and noncompetitive environments which include large and small group instruction, health enhancing technology, lecture, hands-on lessons, and fitness components. Teamwork and sportsmanship principles will be discussed and reinforced so that students can apply them in everyday life situations.

Why this course is important: This course is designed to give students the opportunity to learn through a comprehensive sequentially planned Physical Education program in accordance with the Wisconsin Standards for Physical Education. Students need to understand the importance of a healthy lifestyle and maintaining it for a lifetime.

Zero Hour Strength and Conditioning
Time/Length of Course: Year-long
Days and times class will meet: Monday, Wednesday, Friday from 6:30 a.m. to 7:20 a.m. when school is in session
Eligible Grade Levels: Incoming 9-12 grade students
Prerequisites for this course: None
Course Credit: .5 PE credit (.25 per semester)
Course Fee: None
Additional Info: Students will need reliable self-transportation to school every day. This course may be repeated multiple times for Physical Education credit. A strict attendance policy is in effect for this zero hour course:
Five or fewer unexcused absences are permitted for the duration of the school year. If there are six or more absences, the student will begin a process for reassignment from class. In compliance with the THS Physical Education department, the make-up policy will require the student to make up work (minutes of exercise) for time missed from class through methods of their choice which could include but is not limited to: open weight room after school, a community education class, or another approved method with a supervisor and their signature to receive credit for the day missed.

What students will learn in this course:
Students will learn about different methods and components of being physically active, and maintaining a healthy lifestyle. A few examples of the topics that will be covered are functional strength, agility, safety, recovery, character building, and lifelong learning. The conjugate training program will be embedded into this course.

How students will learn in this course:
Students will learn through a variety of learning and training methods. This includes face-to-face classroom instruction, guided student exercise, movement-based learning, and tracking & recording information.

Why this course is important:
This course will provide students with the opportunity to enhance their physical education knowledge. We will teach students multiple ways to stay active and healthy through exercise, goal setting, recording/tracking data, and multiple academic projects. Good character traits, a high-interest level, the willingness to develop personal organization, and discipline skills will be required to succeed in this course.

Health
Length of course: Semester
Eligible grade levels: 10-12
Prerequisites for this course: None
Course credit: .5 credit
Course fee: None
Additional Info: This course is required for graduation.

What you will learn in this course: Students will learn about the different health dimensions and how keeping those dimensions in balance can improve overall wellness. Students will learn the essentials of living a healthy lifestyle, along with examining different skills and how their own behaviors/decisions can influence many areas of health. Course content will fall under the following topics: Health Skills, Mental & Emotional Health, Family & Social Health, Growth and Development, Nutrition, Alcohol/Tobacco/Other Drugs, and Communicable vs Non Communicable Diseases.

How you will learn in this course: Lecture and notes, hands on activities, group discussions, videos, scenario/simulation activities, guest speakers, projects, quizzes and tests.

Why this course is important: This class will teach students how they can relate health skills to every aspect of their lives. This is an opportunity for students to examine how habits they practice now can not only influence daily life, but how it can continue to affect them as they grow older. Additionally, this gives students chances to practice different health skills that will fit their needs for life now and after graduation.

Advanced Health
Length of course: Semester
Eligible grade levels: 11– 12
Prerequisites for this course: Health
Course credit: .5 credit
Course fee: $38 for Red Cross Certification (CPR)

What you will learn in this course: Students will complete the American Red Cross First Aid/CPR/Defibrillator training and will receive certification in these areas. The second part of the class focuses on health occupations. Students will explore several different health occupations and will learn the skills that are needed, education requirements, and employment opportunities in these fields. Students will also examine current health issues while practicing their research and advocacy skills to prepare them for life after high school.

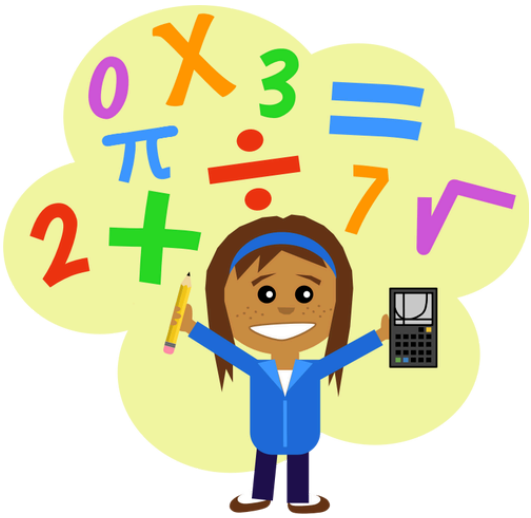
How you will learn in this course: Hands on skills for the Red Cross certification, as well as virtual and book work from the American Red Cross training manual. Test out on skills and also written tests. Health Occupations and Current Health Issues - Guest speakers, project-based learning, independent learning, group discussion, and instructor led.

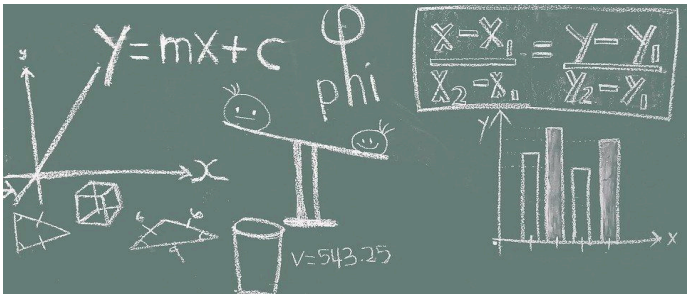
Why this course is important: **First Aid/CPR/Defibrillator** - Students are receiving training so they may respond to any type of emergency from minor to life-saving. Many of them may have to respond to an emergency some time in their lives and without this training, many would not know what to do. **Health Occupations** – For the student who is interested in entering the health field upon graduation this gives them the correct information as to what will be needed in their field of study, as well as skills needed and what the future employment opportunities look like. **Current Health Issues** - regardless of if they're going into a health occupation or not, this prepares students to think critically in regards to health topics that will affect them. This provides the opportunity for students to start preparing for life outside of high school and how they may go about these different topics.

Math Department

COURSES

- Pre-Algebra
- Integrated Math I
- Geometry
- Intermediate Algebra
- Algebra II
- AP Precalculus
- AP Calculus AB
- AP Statistics





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Pre-Algebra
Length of course: Year
Eligible grade levels: 9
Prerequisites for this course: None
Course credit: 1 credit
Course fee: None

What you will learn: Pre-Algebra introduces topics of algebra. Students will be introduced to operations with real numbers, ratios and proportions, equations, inequalities, linear functions, exponential functions, systems of equations, and polynomials.

How you will learn: This course is driven by our Pre-Algebra learning targets and local essentials for understanding. Our local essentials for understanding are based on and aligned to the Wisconsin State Standards for Mathematics. Students will be using mathematical practices which include discussion, evidence use, and the flexible use of strategies for problem solving. Both ongoing formative assessment as well as summative assessments will be used to measure understanding of course essentials for this class.

Why this course is important: This course is a bridge to algebra and geometry. The sequence helps students to meet the mathematical standards mandated by the State of Wisconsin. This course will help restore or reinforce a growth mindset for learning mathematics.

Integrated Math I
Length of course: Year
Eligible grade levels: 9-12
Prerequisites for this course: 8th grade math or advancement per school district criteria
Course credit: 1 credit
Course fee: None

What you will learn in this course: Students in Math I will solidify and extend their understanding of functions, solving equations, and data analysis. The course begins by focusing on functions and how they are used to model relationships between two quantities. Beginning with arithmetic and geometric sequences, students build on their understanding of linear functions from grade 8. The next units focus on other important features of functions in addition to the nature of change. Later students expand their algebraic skills with a focus on solving equations and inequalities. Finally, students move into geometry units. Students explore more complex geometric situations and deepen their explanations of geometric relationships. Geometry is addressed from a transformational perspective, with the definitions and features of translations, rotations, reflections, and dilations becoming important tools for reasoning about and justifying claims.

How you will learn in this course: The classroom experience first introduces students to a rich mathematical task and then invites them to grapple with solving it. While students' ideas emerge, take form, and are shared in small groups, the teacher monitors, selects, and sequences the student work that will move student thinking toward meaningful mathematical connections and the lesson's learning goals. As students make conjectures and share strategies during the discussion, their ideas evolve into mathematical concepts that become the underpinnings for deeper mathematical thinking and the root of efficient procedures that support mathematical fluency. The mathematical understandings and strategies that students share during class eventually solidify into a body of practices and mathematical habits that belong to these students because they are developed by them as an outcome of their own creative and logical thinking.

Why this course is important: The goal of this course is to introduce students to the basic concepts of algebra and geometry in preparation for Math II. In addition, students will continue to develop problem-solving skills and learn to take their learning from the concrete and transform this into abstract ideas.

Geometry
Length of course: Year
Eligible grade levels: 10-12 (Students may be accelerated in middle school)
Prerequisites for this course: Algebra I
Course credit: 1 credit
Course fee: None

What you will learn in this course: The goals for this course for students are to think logically and critically, to increase comprehension of technical writing through reading and discussion, to develop a sense of spatial visualization with a variety of geometric forms, and to write with technical clarity and precision. These skills are demonstrated through class discussion, daily assignments, and through written work.

How you will learn in this course: Modeling reasoning, problem solving techniques, and technical reading and writing skills will be the daily regimen for learning. Student self inquiry using the Geometer's Sketchpad as a learning tool for making conjectures will also be used regularly, as well as many projects involving the use of Geometry in the real world. This course is driven by our local essentials for understanding and learning targets. Our local essentials for understanding are based on and aligned to the Wisconsin State Standards for Mathematics. Students will be using mathematical practices which include discussion, evidence use, and the flexible use of strategies for problem solving. Both ongoing formative assessment as well as summative assessments will be used to measure understanding of course essentials for this class.

Why this course is important: Students who are interested in attending a 4 year college or technical school will either need this course for admission, or it is strongly recommended. The critical thinking, problem solving, and writing developed in this course will serve the students well in whatever choices they make for their future.

Intermediate Algebra
Length of course: Year
Eligible grade levels: 11-12
Prerequisites for this course: Algebra I & Geometry *Note: Students who have had Algebra 2 may not enroll in this course.
Course credit: 1 credit
Course fee: None

What you will learn: Intermediate Algebra concentrates on reviewing the topics of linear algebra during the first quarter of the year. It will then cover systems of equations, probability, and basic trigonometry. The trigonometry will include special right triangles, solving right triangles, and solving non-right triangles. Other topics will include operations with polynomials, factoring polynomials, quadratic functions, direct/inverse variation, and exponential functions.

How you will learn in this course: This course will cover many of the topics that will be encountered while taking our traditional Algebra 2 class. The main difference is that it will be taught at a slower pace and less in depth than Algebra 2. This course is driven by our local essentials for understanding and learning targets. Our local essentials for understanding are based on and aligned to the Wisconsin State Standards for Mathematics. Students will be using mathematical practices which include discussion, evidence use, and the flexible use of strategies for problem solving. Both ongoing formative assessment as well as summative assessments will be used to measure understanding of course essentials for this class.

Why this course is important: Intermediate Algebra is a bridge between Algebra 1/Geometry and Algebra 2. See the THS mathematics flow chart for more details. It is important to understand that this course will not be accepted by four-year universities as an equivalent to Algebra 2. This course will prepare students for courses and careers beyond high school.

Algebra II
Length of course: Year
Eligible grade levels: 10-12
Prerequisites for this course: Students must pass Algebra I
Course credit: 1 credit
Course fee: None

What you will learn in this course: The goal of this course is to further investigate and build on concepts from Algebra I and Geometry A in order to prepare students for future math courses and work outside of school. Students will explore symbolic and graphical representations of functions. Other topics will include linear functions, systems of equations and inequalities, quadratic functions, polynomial functions, rational functions, exponential and logarithmic functions, and trigonometry and trigonometric functions. Students will be expected to use precise and appropriate mathematical terminology in the class.

How you will learn in this course: This course is driven by our Algebra II learning targets and local essentials for understanding which are based on and aligned to the Wisconsin State Standards for Mathematics. Students will be using mathematical practices which include discussion, evidence use, and the flexible use of strategies for problem solving. Both ongoing formative assessment as well as summative assessments will be used to measure understanding of course essentials for this class.

Why this course is important:
This course will prepare students for courses and careers beyond high school. This class is a requirement for most four-year universities.

AP Precalculus
Length of course: Year
Eligible grade levels: 11-12
Prerequisites for this course: Recommended grade of C- or higher in Algebra II
Course credit: 1 credit
Course fee: Students will be encouraged to take the AP exam at the end of the course which requires a fee.

What you will learn in this course: Students will gain the skills needed to succeed in college programs in math, engineering, and science. Emphasis is placed on functions, pre-calculus, trigonometry, abstract algebra, limits and other calculus concepts. After three years of previous math, coursework in senior math will develop an understanding for the unity of various areas of mathematics.

How you will learn in this course: This course is driven by our local essentials for understanding and learning targets. Our local essentials for understanding are based on and aligned to the Wisconsin State Standards for Mathematics. Students will be using mathematical practices which include discussion, evidence use, and the flexible use of strategies for problem solving. Both ongoing formative assessment as well as summative assessments will be used to measure understanding of course essentials for this class. A graphing calculator (such as the TI-84) is recommended for this course. This course will involve both a calculator and non-calculator component.

Why this course is important: Students have the opportunity to earn both high school and college math credits with an AP score of 3 or higher out of 5 on the AP Exam.

AP Calculus AB

Length of course: Year
Eligible grade levels: 12 (Advanced math students)
Prerequisites for this course: Algebra, Geometry, Algebra II, and AP Precalculus
Course credit: 1 credit
Course fee: Students will be encouraged to take the AP exam at the end of the course which requires a fee.

What you will learn in this course: Students will develop the understanding of the concepts of calculus while providing experience with its methods and applications. Differential and integral calculus will be the two major topics studied in this class.

How you will learn in this course: This course is driven by our local essentials for understanding and learning targets. Our local essentials for understanding are based on and aligned to the Wisconsin State Standards for Mathematics. Students will be using mathematical practices which include discussion, evidence use, and the flexible use of strategies for problem solving. Both ongoing formative assessment as well as summative assessments will be used to measure understanding of course essentials for this class. A graphing calculator (such as the TI-84) is recommended for this course. This course will involve both a calculator and non-calculator component.

Why this course is important: Students have the opportunity to earn both high school and college math credits:
A. If a student scores a 3 of 5 on the AP exam, they may earn 3 college math credits that may be used toward their quantitative math electives
B. If a student scores a 4 or 5 on the AP exam, they may receive 5 college calculus credits. (Math 221 1st semester Calculus at UW-Madison)
C. If a student scores a 1 or 2, they still have been exposed to the curriculum and will have a head start on other students.

AP Statistics

Length of course: Year
Eligible grade levels: 10-12
Prerequisites for this course: Must have passed Intermediate Algebra or Algebra II
Course credit: 1 credit
Course fee: Students are encouraged to take the AP exam at the end of the course which requires a fee

What You Will Learn in This Course:

The purpose of a course in statistics is to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students will explore four broad conceptual themes:

1. Exploring Data: Describing patterns and identifying deviations from those patterns.
2. Sampling and Experimentation: Planning and conducting studies.
3. Anticipating Patterns: Understanding random phenomena using probability and simulation.
4. Statistical Inference: Estimating population parameters and testing hypotheses.

How You Will Learn in This Course:

Students will explore data analysis methods to solve real-world problems, draw conclusions, and model both social and physical sciences while making connections to business, economics, and biochemistry. They will also be expected to use precise and appropriate mathematical terminology in class.
This course is guided by our local essentials for understanding and learning targets, which are aligned with the Wisconsin State Standards for Mathematics. Students will engage in mathematical practices that include discussion, evidence-based reasoning, and the flexible use of strategies for problem-solving. Both ongoing formative assessments and summative assessments will be used to measure understanding of course concepts.

Why This Course Is Important:

This class is valuable for both college-bound and non-college-bound students, regardless of their career path. Since data is a constant influence in our daily lives, students need to be able to interpret and present data effectively. Additionally, this course offers students the opportunity to earn both high school and college math credits if they score a 3 or higher out of 5 on the AP exam.

Science Department

COURSES

- Biology
- Earth Science
- Physical Science
- Chemistry
- Anatomy & Physiology
- Environmental Science
- Physics
- Advanced Placement Biology (AP)
- Principles of Engineering

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Course Offering List for Science Department

Freshman Year			
Biology (1) *			
Sophomore Year			
Anatomy (1) B	Chemistry (1) B, A1	Physical Science (1)	Environmental Science (0.5) B
Earth Science (0.5)	Principles of Engineering (1) IED	Biology (1) *	
Junior Year			
Anatomy (1) B	Chemistry (1) B, A1	Physical Science (1)	Environmental Science (0.5) B
Advanced Placement Biology (1) B, C	Physics A1, A2	Earth Science (0.5)	P.O.E (1) IED
Biology (1) *			
Senior year			
Anatomy (1) B	Chemistry (1) B, A1	Physical Science (1)	Environmental Science (0.5) B
Advanced Placement Biology (1) B, C	Physics A1, A2	Earth Science (0.5)	P.O.E (1) IED
Biology (1) *			

( ) - credits per class

* - required for graduation and recommended for all freshmen

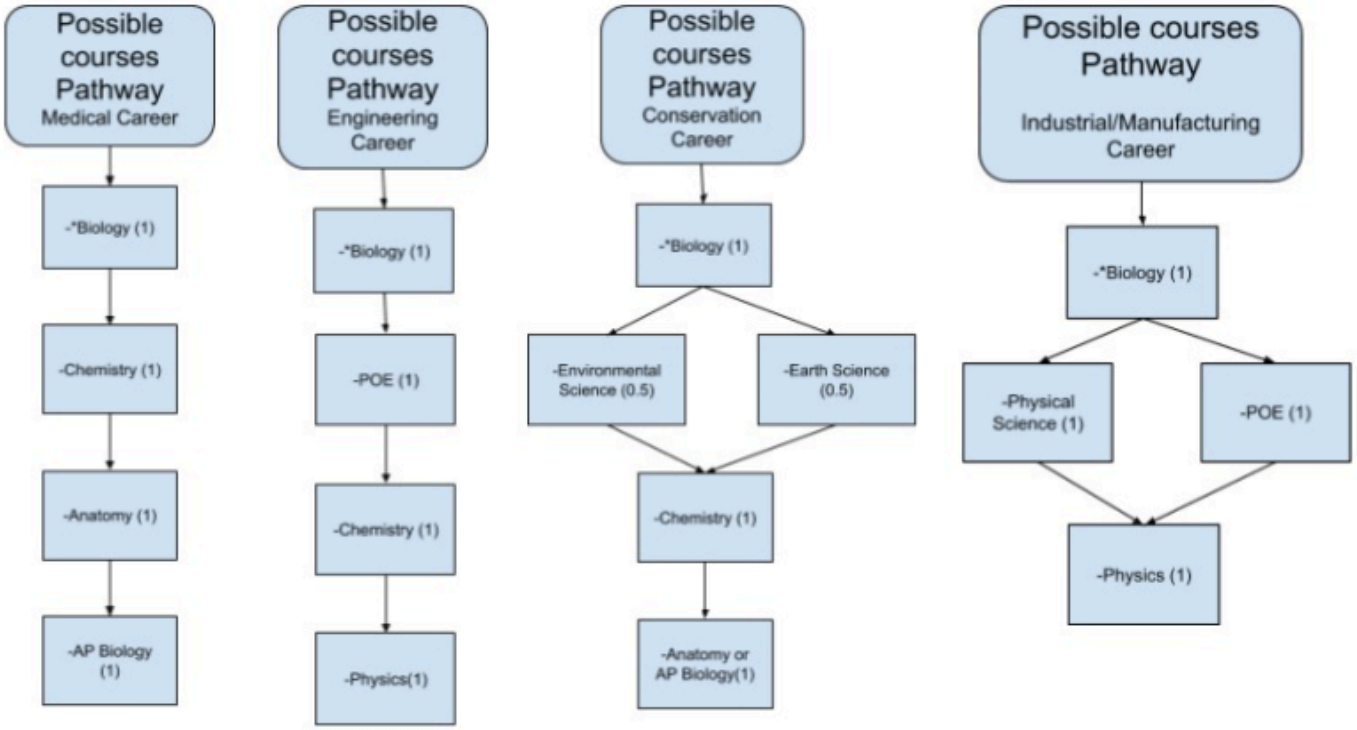
B - Biology is a prerequisite for this course

C - Chemistry is a prerequisite for this course

A1 - Algebra 1 (Math 1) is a prerequisite for this course

A2 - Algebra 2 is a prerequisite for this course

IED - Intro to Engineering is a prerequisite for this course


Possible courses Pathway
Medical Career
-*Biology (1)
-Chemistry (1)
-Anatomy (1)
-AP Biology (1)
Possible courses Pathway
Engineering Career
-*Biology (1)
-POE (1)
-Chemistry (1)
-Physics(1)
Possible courses Pathway
Conservation Career
-*Biology (1)
-Environmental Science (0.5)
-Earth Science (0.5)
-Chemistry (1)
-Anatomy or AP Biology(1)
Possible courses Pathway
Industrial/Manufacturing Career
-*Biology (1)
-Physical Science (1)
-POE (1)
-Physics (1)

Biology
Length of course: Year
Eligible grade levels: 9-12
Prerequisites for this course: None
Course credit: 1 credit
Course fee: None

What you will learn in this course: Biology is the study of life. This course will cover the following topics: Living Systems, Ecosystems, Cells, the Structure of DNA, Genetics and Heredity, and Evolution.

How you will learn in this course: We will learn through the use of guided notes, classroom discussions, hands-on labs and activities, projects, the use of slide presentations, and videos. In addition, you will develop skills in using the following Science and Engineering Practices: ask questions and define problems; develop and use models; plan and carry out investigations; analyze and interpret data; use mathematics and computational thinking; construct explanations and design solutions; engage in argument from evidence; and obtain, communicate, and present information.

Why this course is important: Biology is the Study of Life. Biology helps us understand the living world around us and how its many species interact, function, and evolve. There are many fields of biology and advancements in these fields have profound effects on the world as a whole. These advancements have improved human medicine and veterinary medicine, have given us a better understanding of how we can live with the world around us and survive, and have provided the tools to improve situations for millions of people.

Physical Science
Length of course: Year
Eligible grade levels: 10-12
Prerequisites for this course: None
Course credit: 1 credit
Course fee: None

What you will learn in this course: Topics of study include but are not limited to the following:
Basic scientific principles – designing, performing, analyzing and summarizing results from experiments
Basic physics concepts – motion, force; basic chemistry concepts – physical and chemical properties of matter, atomic theory, and chemical interactions

How you will learn in this course: All of the scientific principles and basic physics concepts will be developed through experiential learning. Students will build these models through lab experiences, seeing, hearing, graphing, and most importantly, thinking. The basic chemistry concepts will be developed through both experiential learning and traditional lecture format.

Why this course is important: Physical Science is important because students will not only develop an appreciation of the physical and chemical nature of our world but they will also develop important life skills such as:
- critical thinking and cooperative learning skills
- speaking and listening effectively
- writing scientifically
- manipulating scientific equipment

Chemistry
Length of course: Year
Eligible grade levels: 10-12
Prerequisites for this course: Biology and Algebra I. **An Algebra grade of B or higher is recommended.*
Course credit: 1 credit
Course fee: None

What you will learn in this course: Major topics of study are physical properties of matter, energy - particles & states of matter, describing substances, counting particles, internal structure of particles, chemical reactions and stoichiometry.

How you will learn in this course: Chemistry was not invented...it was discovered!! The intent of this course is for you to examine and develop with your classmates an understanding of some physical phenomena and to personally experience the process of making sense of the physical world. This course is about "doing" science. To "do" science is to make up as good an explanatory story (model) about our experiences so far with the phenomena as one can, together with others trying to do the same thing. Our models are not stagnant, but will change as more evidence is gathered.

Why this course is important: In science, knowledge must be constructed by you, the learner. By organizing your observations of nature and confronting your own conceptions of nature, you will build the central models of chemistry. The models are intuitions about nature that make perfect sense once they are in your head, but like your intuitive understanding of a friend's personality, they cannot be quickly communicated. The model has to be developed through a variety of modes of communication and experience. Therefore, you will build the models of chemistry through lab and kinesthetic experiences; seeing, writing, hearing, graphing and thinking. In order to succeed in this class you must be actively engaged in your own learning. Furthermore, you must be willing to:

- Communicate and share ideas with others
- Take risks with your ideas
- Live with ambiguity
- Respect and take interest in the ideas of others

"When you make the finding yourself - even if you're the last person on Earth to see the light - you'll never forget it." - Carl Sagan

Anatomy and Physiology
Length of course: Year
Eligible grade levels: 10-12
Prerequisites for this course: General Biology
Course credit: 1 credit
Course fee: None

What you will learn in this course: Welcome to Anatomy and Physiology! The study of Anatomy and Physiology focuses on the structures of the human body and how those structures work together. During the course of the year we will study all the organs and organ systems of the body in great detail. These systems determine how we breathe, digest food, think, respond to stimuli, feel, move, fight off infections and so much more.

How you will learn in this course: We will learn the material through a lot of case studies. These are stories that describe a situation (a sick patient, an outbreak of a disease, the discovery of a dead body, etc.) You will become the doctor, the coroner, the crime scene investigator or another medical professional and have to solve the mystery in the case study. These are usually done in groups. We will do a lot of labs in each unit. There will be homework assignments to review and apply previously learned material. The lectures will organize and simplify the material, often bringing in information not found in textbooks, and showing videos and using the SMART Board nearly every day to bring in pictures and diagrams. Sometimes we will read news articles as well.

Why this course is important: Anatomy and Physiology is all about you. It is interesting and challenging. It is fun to solve mysteries and figure out what is happening in the human body to make us work, and sometimes what is going wrong that makes us not work as well. If you are interested in any medical field (doctor, nurse, therapist, athletic trainer, EMT, paramedic, medical technologist, etc.) or if you are just interested in finding out how your body works, this is a great course for you.

Earth Science
Length of course: Semester
Eligible grade levels: 10-12
Prerequisites for this course: None
Course credit: 0.5 credit
Course fee: None

What you will learn in this course: In this semester-long course, we will learn how geologists think and how they use the scientific method to extract Earth's hidden secrets. Topics that we will cover include the universe, solar system, stars, geology and plate tectonics, rocks, minerals and soil, and atmosphere, weather and climate.

How you will learn in this course: You will learn through classroom discussions, hands-on experiments and activities, and projects. There will also be computer simulations and lab exercises to supplement classroom discussion and assignments.

Why this course is important: Earth is our home and we rely on it every day of our lives. Everything in the world is built upon the Earth or depends on the Earth in some way. Human history has been influenced directly or indirectly by Earth Science. Earth Science plays an essential role in Earth's history, composition, structure, its atmosphere and oceans, and its environment in space. Knowledge in this topic is critical because most human activities are correlated to our interaction with our planet. This course is key for the development of informed citizenry of our students.

Environmental Science
Length of course: Semester
Eligible grade levels: 10-12
Prerequisites for this course: General Biology
Course credit: 0.5 credit
Course fee: None

What you will learn in this course: Content includes the study of ecosystems and how they function as units of sustainability. Several world environmental problems will be addressed, including overpopulation, depletion of natural resources and pollution.

How you will learn in this course: A variety of activities including lecture, lab, discussions, videos, projects, and writing assignments.

Why this course is important: Understanding how ecosystems function as units of sustainability and to be aware of human impacts on the earth will help society move toward a sustainable future.

Physics A
Length of course: Year
Eligible grade levels: 11-12
Prerequisites for this course: Algebra I and Algebra II (or concurrently)
Course credit: 1 credit
Course fee: None

What you will learn in this course: Topics of study included but are not limited to the following: motion, force, energy, momentum, electricity and optics.

How you will learn in this course: All of the central models of physics will be developed through experiential learning. Students will build these models through lab experiences, seeing, hearing, graphing and most importantly, thinking.

Why this course is important: Physics A is important because students will not only develop an appreciation of how nature works but they will also develop important life skills such as:
- critical thinking and cooperative learning skills
- speaking and listening effectively
- writing scientifically
- manipulating scientific equipment
- mental fortitude needed to solve difficult problems

Principles of Engineering (POE) (Science Equivalency Credit)
Length of course: Year
Eligible grade levels: 10-12
Prerequisites for this course: IED
Course credit: 1 credit
Course fee: None
This course can be taken to fulfill one science credit.
Additional info: Students will receive a third year science equivalency credit. Also, students will have the opportunity to earn college credits and scholarships through the Milwaukee School of Engineering at the completion of the course. University credit fees may apply.

What you will learn in this course: This course is designed to further students' understanding in the field of engineering/technology. Students enrolled in POE will explore various technological systems, manufacturing processes, and how engineers/technicians use math, science and technology in an engineering problem solving process to benefit people. Topics include: study of mechanisms, energy, electrical/fluid systems; exploration of material properties, statics, strength, testing; survey of control systems and introductory robotics.

How you will learn in this course: Students will apply the design process to solve problems through hands-on activities which include the use of computers, simple machines, automation, robotics, hydraulics/pneumatics, etc.

Why this course is important: Principles of Engineering (POE) is an introductory course within the pre-engineering program sequence of Project Lead The Way (PLTW) curriculum.

Advanced Placement Biology

Length of course: Year
Eligible grade levels: 11-12
Prerequisites for this course: General Biology, Chemistry or consent of the instructor and the guidance department
Course credit: 1 credit
Course fee: Students will be encouraged to take the AP exam at the end of the course which requires a fee.

What you will learn in this course:

This course is designed to be the equivalent of a college introductory biology course usually taken by biology majors during their first year. The two main goals of AP Biology are to help students develop an understanding of modern biology and to help students gain an appreciation of science. The fact that biology changes every day makes this challenging! The primary emphasis in AP Biology is on developing an understanding of concepts rather than on memorizing terms and technical details. You will study cells, genetics, plants and animals, evolution, and ecology in more detail than in general biology.

How you will learn in this course:

You will learn by reading the chapters in each unit and writing about what you have learned. While you are reading, we will work to simplify the material through lectures, discussions, labs and hands-on activities. We use the SMART board nearly every day to bring in pictures and diagrams that will help you. There are several labs and projects that will help you to understand the material. You will also have many study groups as the test approaches in May to review material and prepare you for the exam.

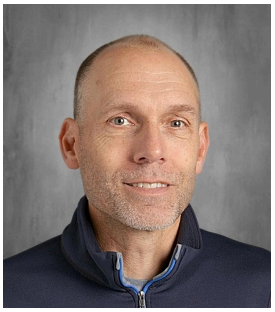
Why this course is important:

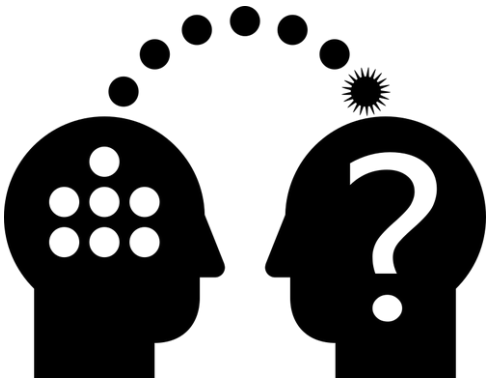
First, this course will work to prepare you for college and help you to learn how to study college level material. This is an advantage to all students who are planning on going to college, regardless of major. Secondly, if you do well on the AP exam you can often take upper-level courses in biology sooner than you would generally be able to. If you are a Biology major, this could shorten your time in college or allow you to take other courses. If you are not a Biology major, and just enjoy science, doing well on the AP exam will allow you to fulfill your basic science requirement in college and you will be able to undertake other courses to pursue the major of your choice and not need to worry about this requirement.

Social Studies Department

COURSES

- Global Studies
- U.S. History
- Advanced Placement U.S. History
- Developmental Psychology
- Advanced Placement Psychology
- Political Science
- Economics
- Advanced Placement Macroeconomics
- Introduction to Education





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Social Studies Class Offerings

Recommended tracks for students

Grade	Required Courses	Elective Courses
Freshman	Global Studies	
Sophomore	U.S. History Global Studies *(if not taken before)*	Developmental Psychology AP Psychology AP U.S. History
Junior	U.S. History *(if not taken before)*	Developmental Psychology AP Psychology AP U.S. History Intro to Education
Senior	Economics Political Science	Developmental Psychology AP Psychology AP U.S. History AP Macroeconomics Intro to Education

Global Studies
Length of Course: Year
Eligible Grade Levels: 9-12
Course Credit: 1 credit
Course Fee: None

What will you learn in this course? Global Studies is an inquiry-based course that explores major geographic themes such as globalization, migration, conflict, and their environmental impacts. Students will be asked to question, research, and critically analyze global issues, and comprehend current trends around the world. The focus of this course is to gain an understanding of global concepts while developing essential problem-solving and geographic literacy skills.

How will you learn in this course? Students in Global Studies will learn through a variety of methods including group discussions, research assignments, small-group work, and reading activities. Global Studies promotes a student-led environment where students are often asked to apply the material, rather than simply memorize it, to show understanding. Classes are built around open class discussions and inquiry-based projects where students typically have choice in their work and are given opportunities to demonstrate understanding in multiple ways.

Why is this course important? Students will not only have a greater understanding of the world around them, but comprehend the ways in which we are politically, economically, and socially connected. Students will gain an understanding of differences around the world and appreciate the diversity surrounding us. Finally, students will develop skills not only relevant to geographic literacy but develop career readiness skills that are necessary for any pathway they take in life.

United States History
Length of Course: Year
Eligible Grade Levels: 10-12
Course Credit: 1 credit
Course Fee: None

What will you learn in this course? Students will expand their knowledge of United States History from the era of Reconstruction to present to a level that demonstrates the ability to critically analyze, compare and assess historic periods of United States History. In addition, students will learn to write to the level of analysis historically, read primary source material and discuss topics in class at a level beyond description.

How will you learn in this course? Students will learn through lectures and active discussions, through the examination of primary source material, and the use of a variety of classroom strategies designed to forward concepts and information effectively.

Why this course is important: This course will provide students with the opportunity to enhance their knowledge of American history and draw conclusions on how historical events have impacted the present. The experience of reading, writing, test taking, and essay writing will help prepare students for other educational opportunities. Superior classroom skills, a high interest level, and the willingness to develop personal organization and discipline skills will be required to succeed in this course.

Advanced Placement United States History
Length of course: Year
Eligible grade levels: 10-12
Prerequisites for this course: None
Course credit: 1 credit
Course fee: Students will be encouraged to take the AP exam at the end of the course which requires a fee.

What you will learn in this course: Students will expand their knowledge of United States History from discovery to present to a level that demonstrates the ability to critically analyze, compare and assess historic periods of United States History. In addition, students will learn to write to the level of analysis historically, read a college level textbook and primary source material and discuss topics in class at a level beyond description.

How you will learn in this course: Students will learn by reading from a college level textbook, through lectures and active discussions, through the examination of primary source material, and the use of a variety of classroom strategies designed to forward concepts and information effectively.

Why this course is important: This course will provide students with the opportunity to learn United States History at a college level and to take the Advanced Placement test in United States History for potential college credit. The experience of reading, writing, and test taking at the college level will expose students to the future challenge of college coursework. Superior classroom skills, a high interest level, and the willingness to develop personal organization and discipline skills will be required to succeed in this course.

Developmental Psychology
Length of course: Semester
Eligible grade levels: 10-12
Prerequisites for this course: None
Course credit: .5 credit
Course fee: None

What you will learn: Developmental Psychology is the study of how human beings grow and change over the course of their lifetime. We will investigate the ways people develop from pre-infancy to death, and explore how biology, cognition, and psychosocial influences interact to make us who we are. We will compare developmental theories and analyze the ways they apply to our own lives.

How you will learn in this course: The objective is for students to be the primary leaders of their own learning. This class will include research assignments, hands on activities, projects, group work, student presentations, lectures on material, and class discussions.

Why this course is important: This is an interesting opportunity for students to learn more about what makes humans who they are. It is a great class for students interested in a human service career (education, childcare, counseling, healthcare, social work, etc.) or students who just want to dip their toes into the world of psychology! Students will come out of this class having a better understanding of the progression of human life.

Advanced Placement (AP) Psychology
Length of course: Year
Eligible grade levels: 10-12
Prerequisites for this course: None
Course credit: 1 credit
Additional info: College credit can be earned by successfully passing the AP Psychology exam in May (which requires a fee). Credits earned through Advanced Placement are accepted by most universities across the nation.

What you will learn in this course: This year-long course mimics an introductory psychology college course. The course is intended to help prepare students for the college setting while diving into the fascinating study of behavior and the mind. Students will investigate theories and research in nine major subfields including topics such as motivation & emotion, lifespan development, psychological disorders, personality, consciousness, and learning.

How you will learn in this course: This is a fast-paced and rigorous course. Students are required to take notes on the content regularly, as well as engage in in-class discussions, active demonstrations, and projects.

Why this course is important: This is an excellent option for anyone wanting to gain college experience and potentially earn college credit. Many colleges require students to take an introductory psychology class, and this can absolutely help you prepare for that or even fill that requirement. To gain college credit, students must get a passing score on the AP exam at the end of the year. This course is also great for anyone intending to work with different types of people in their career and want to have a better understanding of human behavior.

Political Science (formerly Civics)
Length of course: Semester
Eligible grade levels: 12
Prerequisites for this course: None
Course credit: .5 credit
Course fee: None

What you will learn in this course: The goal of this course is to give students an understanding of national, state, and local government. We will also examine the principles, origins, and framework of democracy at each of these levels. Also included is a weekly examination of the topic of freedom from a variety of perspectives.

How you will learn in this course: The texts *American Government* and *The Framework of Your Wisconsin Government* will be used in conjunction with lecture, group activities, videos and projects to provide a comprehensive look at Democracy.

Why this course is important: Students will not only gain a thorough understanding of government at all levels, but gain an appreciation for the rights and responsibilities of being a U.S. citizen.

All students must complete Political Science as a requirement for graduating THS.

Economics
Length of course: Semester
Eligible grade levels: 12
Prerequisites for this course: None
Course credit: .5 credit
Course fee: None

What you will learn in this course: The goal of this course is to study how unlimited wants, combined with limited resources, force us all to make decisions. Also, using real world examples, students will be able to make connections between the economic concepts learned in class and their own lives.

How you will learn in this course: The text *Economics* will be used as a primary guide. It will be augmented with discussions, selected readings, videos and projects (including a 10 week long stock market game) to give a better understanding of how and why economic decisions affect people.

Why this course is important: Students will gain an understanding of basic economic concepts such as scarcity, money and banking, unemployment, inflation, GDP economics systems, and how it applies to the world they live in.

Advanced Placement (AP) Macroeconomics
Length of course: Semester
Eligible grade levels: 12
Prerequisites for this course: Completion of Economics the semester immediately preceding AP Macroeconomics.
Course credit: .5 credit
Course fee: Students will be encouraged to take the AP exam at the end of the course which requires a fee.

What you will learn in this course: The goal of this course is to give students a thorough understanding of the principles of economics that apply to the U.S. economics system as a whole; particular emphasis will be placed on measuring economic performance, inflation, unemployment, and stabilization policies. Those students enrolling in this course should be motivated and want to learn challenging college-level material.

How you will learn in this course: The text *Economics* will be used as a primary text. In addition, discussion, reading, group activities, and projects will provide students a comprehensive look at macroeconomics.

Why this course is important: Students will gain an understanding of basic economics concepts and systems, and how they apply to the world they live in. Students will take the AP exam and potentially gain college credit.

Introduction to Education

Length of course: Semester
Eligible grade levels: 11-12
Prerequisites for this course: None
Course credit: .5 credit
Course fee: None
Additional info: Students who complete the class with a "B" or higher will receive 3 transcripted credits to Nicolet Technological College 10-809-201 Introduction to Education and Teaching. This course is elective credit and does not fulfill Social Studies graduation credit requirements.

What you will learn in this course:
Students will be introduced to education and teaching through practical experience in school settings. Relationships between education, curriculum, and instruction will be explored across contexts of home, business, community, and school. In addition, students will also experience how school practices connect with philosophical perspectives of education.

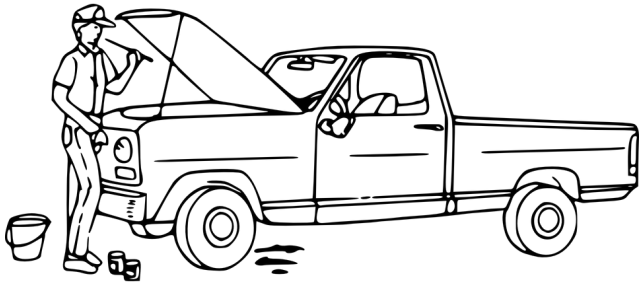
How you will learn in this course:
In this class, students will learn in a variety of ways. Direct instruction, peer group discussions, individual reflection, classroom observation, and lesson planning/delivery are examples of some learning methods that will be used.

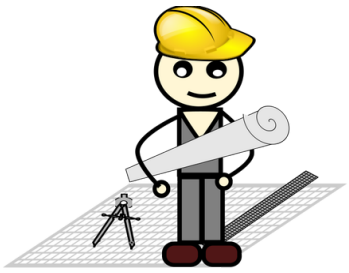
Why this course is important:
Taking *Introduction to Education* is a valuable opportunity for high school students to explore the exciting field of education and teaching. If you're thinking about becoming a teacher, or simply want to understand more about how schools work, this course is a perfect starting point. By taking this course, you'll not only gain a better understanding of education but also a clearer idea of how you can contribute to it in the future. It's a great way to prepare for a career in teaching, corporate training, communications, or human resources, or simply to gain a deeper understanding of how education shapes society.

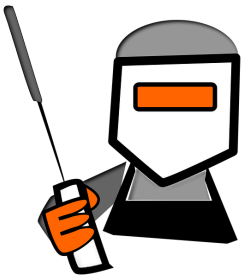
Technology & Engineering Department

COURSES

- Introduction to Engineering Design
- Principles of Engineering
- Civil Engineering & Architecture
- Residential Design
- General Metals
- Technical Metals
- Metals Fabrication
- Small Engines
- Auto Maintenance
- Auto Technology
- General Woodworking
- Technical Woodworking
- Enterprise Wood Products
- Construction & Building Trades
- Hatchet Innovations
- Power Systems







Project Lead the Way Engineering Program (PLTW)

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Technology Education Courses

IED - Introduction to Engineering Design (College credit possible) (9th - 12th grade) is required to take these courses →	**General Woods**	**10th - 12th grade**
	Technical Woods (Transcripted credit)	**10th - 12th grade**
	Enterprise Wood Products	**10th - 12th grade**
	Construction & Building Trades	**11th - 12th grade**
	General Metals	**10th - 12th grade**
	Technical Metals (Transcripted credit)	**10th - 12th grade**
	Metals Fabrication (Transcripted credit)	**11th - 12th grade**
	Principles of Engineering (Science Credit; College credit possible)	**10th - 12th grade**
	Hatchet Innovations (Transcripted credit)	**11th - 12th grade**
IED is <u>not</u> required to take these courses →	**Residential Design (Transcripted credit)**	**10th - 12th grade**
	Small Engines	**9th - 12th grade**
	Automotive Maintenance	**10th - 12th grade**
	Automotive Technology (Transcripted credit)	**11th - 12th grade**
	Civil Engineering & Architecture (College credit possible)	**10th - 12th grade**
	Power Systems	**10th - 12th grade**

Introduction to Engineering Design (IED)

Length of course: Year
Eligible grade levels: 9-12
Prerequisites for this course: None (This course is a prerequisite for many other courses.)
Course credit: 1 credit
Course fee: None
Additional info: Students will have the opportunity to earn college credits and scholarships through the Milwaukee School of Engineering at the completion of the course. University credit fees may apply.

What you will learn in this course: Students use a hands-on, problem-solving model to improve existing products and invent new ones. Throughout the course, students will learn about and use the design process used by engineers, designers and technicians. Students will also learn about various methods of fabricating products and communicating their designs for manufacturing purposes.

How you will learn in this course: Computers will be the primary design tool used by students. Students will use sophisticated three-dimensional modeling software to design and communicate products. Students will be actively involved in the course on a daily basis. Many of the projects are open-ended problems where the students choose what the product will be, how it looks and how it functions.

Why this course is important: There is an increasing need for women and men to enter career fields involving Science, Technology, Engineering and Mathematics (STEM). This course directly relates to many current and future careers in our nation's economy. This course is a part of the Project Lead The Way engineering program.

Principles of Engineering (POE) (Science Equivalency Credit)

Length of course: Year
Eligible grade levels: 10-12
Prerequisites for this course: IED
Course credit: 1 credit
Course fee: None
This course can be taken to fulfill one science credit.
Additional info: Students will receive a third year science equivalency credit. Also, students will have the opportunity to earn college credits and scholarships through the Milwaukee School of Engineering at the completion of the course. University credit fees may apply.

What you will learn in this course: This course is designed to further students' understanding in the field of engineering/technology. Students enrolled in POE will explore various technological systems, manufacturing processes, and how engineers/technicians use math, science and technology in an engineering problem-solving process to benefit people. Topics include: study of mechanisms, energy, electrical/fluid systems; exploration of material properties, statics, strength, testing; survey of control systems and introductory robotics.

How you will learn in this course: Students will apply the design process to solve problems through hands-on activities which include the use of computers, simple machines, automation, robotics, hydraulics/pneumatics, etc.

Why this course is important: Principles of Engineering (POE) is an introductory course within the pre-engineering program sequence of Project Lead The Way (PLTW) curriculum.

Civil Engineering & Architecture

Length of course: Year
Eligible grade levels: 10-12
Prerequisites for this course: None
Course credit: 1 credit
Course fee: None
Additional info: Students will have the opportunity to earn college credits and scholarships through the Milwaukee School of Engineering at the completion of the course. University credit fees may apply.

What you will learn in this course: This course will introduce students to the fundamental design and development aspects of civil engineering and architectural projects. The course of study includes: roles of civil engineers and architects as well as all aspects of commercial building design. Topics covered in class include: commercial building design and drafting, architecture, land surveying and grading, soil testing, water run-off, water supply and wastewater management, mechanical/electrical systems, and structural engineering.

How you will learn in this course: Student activities will be based on the design of a commercial building and its surrounding environment. Students will create, evaluate and communicate commercial building designs. Through this process, students will use computer aided design software to design a building site and interior/exterior building components. Students will also have outdoor activities that include land surveying and soil testing.

Why this course is important: Civil Engineering & Architecture is a specialization course within the pre-engineering program sequence of Project Lead The Way (PLTW) curriculum. This course directly relates to many current and future careers in our nation's economy. This course is intended for those students interested in pursuing a career in engineering.

Residential Design

Length of course: Semester
Eligible grade levels: 10-12
Prerequisites for this course: None
Course credit: 1/2 credit
Course fee: None
Additional info: Students who successfully complete this class will also have the opportunity to earn college credit through Northcentral Technical College.

What you will learn in this course: This course will introduce students to the fundamental design and development aspects of residential building design specific to single family dwellings. Topics covered in class include: architectural styles and design, floor plan layout, construction methods, building codes, estimating, computer design software (CAD) and design communication through technical drawings, renderings and animation.

How you will learn in this course: Student activities will be based on the design of a residential home and its surrounding environment. Students will use Autodesk Revit design software to create, evaluate and communicate the design of a residential home in a 3D computer environment. Designs will be communicated through technical drawings, design renderings and 3D walkthroughs/fly-arounds.

Hatchet Innovations
Length of course: Year
Eligible grade levels: 11-12
Prerequisites for this course: Introduction to Engineering Design
Course credit: 1 credit
Course fee: None
Additional info: Students who successfully complete this class will also have the opportunity to earn college credit through Northcentral Technical College.

What you will learn in this course:
Students will learn to address and solve real-world problems through the use of the engineering design process. Throughout this course, students will be exposed to a variety of design and manufacturing technologies and will learn how to appropriately use those tools in the development of a problem's solution. Students will become proficient in project management and problem-solving skills.

How you will learn in this course:
Students will use the engineering design process in order to solve a problem of their choice. They will carry the problem throughout the entire process including researching, brainstorming, designing, prototyping, manufacturing, and presenting the solution to a panel made up of their peers and industry experts.

General Metals
Length of course: Semester
Eligible grade levels: 10-12
Prerequisites for this course: Introduction to Engineering Design
Course credit: .5 credit
Course fee: None

What you will learn in this course: At the completion of this course you will have had experience in layout, sheet metal, forging, casting, machining and welding. This course is designed to introduce students to the basic operations, tooling, concepts, procedures, and materials used in various metalworking fields.

How you will learn in this course: Students will have learning experiences that are hands-on, project-based which take place in a lab setting. Students can expect to perform machining, welding, foundry, and sheet metal techniques through hands-on projects they create throughout the course.

Why this course is important: According to the U.S. Bureau of Labor Statistics Employment Projections Program, demand in metal working careers will increase in the upcoming decade. This course will benefit any student planning to enter any career in the Manufacturing Career Pathway Cluster. Students will gain an understanding of processes used in metal manufacturing in areas of welding, sheet metal working, foundry, machining and fabrication. Students taking this course will have an interest in pursuing employment in the metalworking field.

Technical Metals
Length of course: Year
Eligible grade levels: 10-12
Prerequisites for this course: Introduction to Engineering Design *(General Metals also recommended)*
Course credit: 1 credit
Course fee: None

What you will learn in this course: The goal of this course is to prepare students for a vocation in the metals field or for a technical school program. This course is designed to enhance students' knowledge and experience with operations, tools, concepts, procedures and materials used in the various metalworking fields. Students will experience basic and advanced metalworking techniques and equipment used in modern industry. Areas of focus include blueprint reading, design and construction, milling and machining, CNC plasma cutting, oxygen – acetylene welding and cutting, shielded metal arc welding (SMAW), wire feed welding (MIG), and tungsten inert gas welding (TIG).

How you will learn in this course: Through hands-on projects, students will perform tasks related to sheet metal working, machining, welding, and foundry. Typical job tasks include but are not limited to:

- Creating and reading blueprints, sketches, or computer-aided design (CAD) or computer-aided manufacturing (CAM) files
- Set up, operate, and tear down manual, automatic, or computer numeric controlled (CNC) machine tools
- Compute and verify dimensions, sizes, shapes, and tolerances of work pieces
- Calculate dimensions using measuring instruments
- Install, align, secure, and adjust cutting tools and work pieces
- Monitor the feed and speed of machines
- Turn, mill, drill, shape, and grind machine parts to specifications
- Measure, examine, and test completed products for defects
- File, grind, and adjust parts so that they fit together properly
- Remove, repair, and replace dull cutting tools

Why this course is important: According to the U.S. Bureau of Labor Statistics Employment Projections Program, demand in metal working careers will increase in the upcoming decade. This course will benefit any student planning to enter any career in the Manufacturing Career Pathway Cluster. Students will gain an understanding of processes used in metal manufacturing in areas of welding, sheet metal working, foundry, machining and fabrication. Students taking this course will have an interest in pursuing employment in the metalworking field.

Metals Fabrication
Length of course: Year
Eligible grade levels: 11-12
Prerequisites for this course: Intro to Engineering Design *(General Metals recommended)*
Course credit: 1 credit
Course fee: None
Additional info: Students who successfully complete this class will also have the opportunity to earn college credit through Nicolet College.

What you will learn in this course: The goal of this course is to prepare students who are considering careers in metals or are planning to continue their education at a vocational or technical school. Students successfully completing this class will have the opportunity to earn college credit. This course consists of two facets of fabrication within the metals career cluster:

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Metals Fabrication, continued
Students will experience various welding operations and techniques (SMAW, MIG, TIG, FCAW) typically used in manufacturing and welding industries. It is necessary for students to understand welding layout, setup, and have the ability to evaluate quality welds. While complying to AWS standards, students will use various welding operations, filler materials, and welding positions often used in manufacturing and careers in welding. The skills obtained in this unit will begin to prepare students for a career pathway in manufacturing, with an emphasis on fabrication and welding.

The second unit incorporates the design loop commonly found in industry. Students will plan and design a project, develop a materials list, estimate cost of materials, and create a plan of procedure, to guide them through the construction of a metals project. Testing and redesign will be the final step in completing the design loop to ensure the success of the project.

How you will learn in this course: This class will allow students to learn safe practices and proper operation of hand tools, engine lathes, vertical mill, surface grinders, CNC equipment, plasma cutters, and welders. Tool sharpening and maintenance will also be experienced by the students. Students will be able to weld, cut, machine, and apply common manufacturing processes and procedures found in industry to complete their project.

Why this course is important: Understanding metal manufacturing will prepare the students to enter the world of industry. The world of metals is used in shipbuilding, automobile sector, aerospace applications, and thousands of other manufacturing activities. According to the Bureau of Labor Statistics - U.S. Department of Labor Occupational Outlook Handbook, the demand for employment in metal manufacturing positions is expected to grow in the upcoming years.

Small Engines
Length of course: Semester
Eligible grade levels: 9-12
Prerequisites for this course: None
Course credit: .5 credit
Course fee: None

What you will learn in this course: This course is designed to allow students the opportunity to develop skills in small engine repair. We will focus on two-cycle and four-cycle engines. Students will be required to tear down, determine specifications, measure tolerances, repair (if needed), and reassemble a two-cycle and a four-cycle engine. Students will also be able to work on personal projects to be serviced at the end of the course.

How you will learn in this course: A majority of the class time will allow the students to have learning experiences which are hands-on and project-based, taking place in a lab setting. In addition, theory based learning focusing on the systems of a small engine will include various lectures, videos, and handouts. Students will perform service work on small engines, snowmobiles, and low horsepower outboard motors. A minimum of two engines will be serviced; one a two-cycle and the other a four-cycle engine.

Small engine mechanics typically do the following:
- Discuss equipment issues, maintenance plans, and work performed with customers
- Perform routine engine maintenance, such as lubricating parts and replacing spark plugs
- Test and inspect engines for malfunctioning parts
- Repair or replace worn, defective, or broken parts

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Small Engines, continued

- Reassemble and reinstall components and engines following repairs
- Keep records of inspections, test results, work performed, and parts used

Why this course is important: According to the U.S. Bureau of Labor Statistics Employment Projections Program, increased demand for motorboats, motorcycles, and outdoor power equipment will create a demand for small engine mechanics and technicians over the projected decade. In addition, systems and types of transportation have become more sophisticated, requiring skilled mechanics and technicians able to diagnose and repair them.

Auto Maintenance

Length of course: Semester
Eligible grade levels: 10 -12
Prerequisites for this course: None
Course credit: .5 credit
Course fee: None

What you will learn in this course: This course is designed to allow students the opportunity to develop skills in basic maintenance of today's automobiles. The student will become familiar with general automotive maintenance: oil change/lubrication, cooling systems, tires and wheels, basic engine tune-ups, detailing, and basic diagnostics. Instruction emphasizes the development of knowledge and skills essential for employment in the field of automotive services and the skills necessary to be a smart consumer.

How you will learn in the course: The auto maintenance program is an interrelated sequence of learning experiences, which include theory and lab work that pertain to preventative maintenance, adjustments, and repair of an automotive vehicle. Students will have learning experiences that are hands-on and project-based which take place in a lab setting. Students will learn to use common automotive tools associated with a repair facility. Job tasks performed in the class are similar to the National Institute for Automotive Service Excellence (ASE) Standards.

Why this course is important: This class is designed for students who want to explore their interest in the automotive repair industry and/or gain an understanding of automotive systems and the proper maintenance and repair of those systems. This class is the foundation from which a student will continue through schooling to become an automotive technician. Also, a National Institute for Automotive Service Excellence (ASE) study found that at least half of consumers neglect routine maintenance, with young people being the least likely to keep up with service schedules. Almost two-thirds of automotive technicians believe that consumers can take care of their vehicles' maintenance and repair needs for less than $500 annually. Considering the average cost and complexity of a new vehicle, you may be penny-wise and dollar-foolish if you neglect routine maintenance.

Automotive Technology

Length of course: Year
Eligible grade levels: 11-12
Prerequisites for this course: Small Engines, Automotive Maintenance
Course credit: 1 credit
Course fee: None
Additional info: Students who successfully complete this class will also have the opportunity to earn college credit through Nicolet College.

NICOLET COLLEGE

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Automotive Technology, continued

What you will learn in this course: This course allows students to develop their skills and knowledge of automotive concepts, theories, systems, maintenance, and mechanics. This course is designed to prepare students for training and pursuing a career in the automotive industry.

How you will learn in this course: Students will have learning experiences that are hands-on and project-based which take place in a lab setting. Job tasks performed in the class are similar to National Institute for Automotive Service Excellence (ASE) Standards. Typical job tasks include but are not limited to:

- Test parts and systems to ensure that they are working properly
- Identify mechanical problems, often by using computerized diagnostic equipment
- Follow checklists to ensure that all critical parts are examined
- Test and lubricate the vehicle's engine and other major components
- Perform basic care and maintenance, including oil changes, tune-ups, and tire rotations
- Repair or replace worn parts, such as brake pads and wheel bearings
- Disassemble and reassemble parts
- Use testing equipment to ensure that repairs and maintenance are effective
- Explain to clients their automotive problems and the repairs done on their vehicles

Why this course is important: According to the U.S. Bureau of Labor Statistics Employment Projections Program, the demand for service technicians and mechanics in the transportation sector will grow in the years ahead. With sophisticated systems and high-tech modes of transportation, there is a need for highly skilled and qualified service technicians, as well as a need to perform the basic maintenance of everyday operations. Successful completion of this course provides students with the skills and knowledge necessary to be successful in related careers found in the transportation sector.

Power Systems

Length of course: Semester
Eligible grade levels: 10-12
Prerequisites for this course: None
Course credit: .5 credit
Course fee: None
Additional Info: Students who successfully complete this class will also have the opportunity to earn 2 college credits through Nicolet College.

What you will learn in this course:
This course is designed to provide students with a foundational understanding of hydraulic and electrical systems, emphasizing their integration into various modern applications. Through a combination of theory and hands-on experiences, students will develop the basic skills necessary to design, analyze, and troubleshoot these systems.

How you will learn in this course:
Students will learn about these systems in a hands-on environment. Industry grade trainers will be used by students to assemble, test and problem solve hydraulic and electrical systems. Students will be able to demonstrate their understanding of these concepts through hands-on experiences.

Why this course is important:
In today's rapidly advancing technological landscape, hydraulic and electrical systems play a pivotal role in shaping the future of engineering, technology, and manufacturing. This course provides students with essential skills and knowledge that are highly relevant to several industries. From modern manufacturing environments to heavy equipment, automobiles, aircraft, and building power systems, hydraulic and electrical systems are key technologies in our modern world. The skills acquired in this course will contribute to highly employable people who can function in the modern workforce.

General Woodworking
Length of course: Semester
Eligible grade levels: 10-12
Prerequisites for this course: Introduction to Engineering and Design
Course credit: .5 credit
Course fee: None

What you will learn in this course: The goal of this course is to introduce students to the operation and safety involved with hand and power tools used in woodworking, as well as occupational and educational opportunities. This course is designed to teach basic woodworking processes through the development of two projects. These projects will teach students how to use design principles and apply those principles to create high quality woodworking projects.

How you will learn in this course: Students enrolled in General Woodworking will learn through hands-on projects. Students will demonstrate the knowledge of safety of the tools and machines, planning and procedures of designing a project, accuracy of measurements and cuts, understanding of the squaring up a board procedure, and proper finishing techniques.

Why this course is important: Students enrolled in General Woodworking will leave this class understanding the use of woodworking machines as well as their safety rules, woodworking techniques, and have a project that will last a lifetime. This class will also develop a student's understanding of engineering and the application of engineering principles. This course is intended for students interested in pursuing a career in Engineering, Cabinetry, or Carpentry.

Technical Woodworking
Length of course: Semester
Eligible grade levels: 10 -12
Prerequisites for this course: Introduction to Engineering Design *(General Woodworking also recommended.)*
Course credit: .5 credit
Course fee: None
Additional info: Students need to pay for materials for their projects. Students who successfully complete this class will also have the opportunity to earn college credit through Northcentral Technical College.

What you will learn in this course: Students enrolled in Technical Woodworking will discover advanced methods and machines used in the field of cabinetmaking. Students will develop a night stand as they learn how to safely and efficiently use machines in the industry, learn common types of wood joints, select appropriate processes in the correct order and learn how to professionally finish wood projects. CNC Machining and Laser Engraving are two technologies that students will become proficient at.

How you will learn in this course: Students enrolled in this course will display knowledge attained through proper design, construction, and finishing of their projects. These hands-on projects will take young engineers through the design, material estimating, price estimating, and procedural planning stages of engineering a product.

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Why this course is important: Students with an interest in using their intelligence and their hands to create will enjoy Technical Woodworking. The skills attained in this course are necessary to students with a post-secondary interest in Engineering, Cabinetmaking, and Carpentry.

Enterprise Wood Products
Length of course: Semester
Eligible grade levels: 10th -12th
Prerequisites for this course: Introduction to Engineering Design *(General Woodworking also recommended)*
Course credit: .5 credit
Course fee: None
Additional information: Students can earn scholarships by completing course work, which can be used for future education needs.

What you will learn in this course: Students enrolled in Enterprise Wood Products will develop a company that will mass produce products to be sold. Students will research local markets for a product need, then engineer and construct a prototype. Students will work with local businesses to market and sell their product. Typical mass production projects are serving trays, cheese boards, coasters, cribbage boards, decorative signs, tip/down stands for ice fishing, and welcome signs. Through the development of these projects, students will develop an understanding of what it takes to own a business, engineer a product in need, choose the correct machining processes, work with co-workers, develop marketing strategies, and sell products. Students will also learn the capabilities of technologies such as CNC Router, CNC Plasma Torch, Laser Engraver, and 3D Printing.

How you will learn in this course: Students enrolled in this course will display knowledge attained through proper design, construction, and finishing of projects in an automated environment. These hands-on projects will take young engineers through the design, material estimating, price estimating, and procedural planning stages of engineering a product.

Why this course is important: Students with an interest in using their intelligence and their hands to create will enjoy Enterprise Wood Products. The skills attained in this course are necessary to students with a post secondary interest in Engineering, Cabinetmaking, Carpentry, Marketing, and Business Ownership.

Construction and Building Trades
Length of course: Year
Eligible grade levels: 11-12
Prerequisites for this course: Introduction to Engineering Design
Course credit: 1 credit
Course fee: None

What you will learn in this course: Students enrolled in this course will develop knowledge of building site orientation and preparation, excavation of the site, foundation design, floor framing concepts, wall framing procedures, rafter layouts, application of roofing and siding materials, types and applications of insulation, electrical concepts, plumbing applications, career opportunities, and trade career demands.

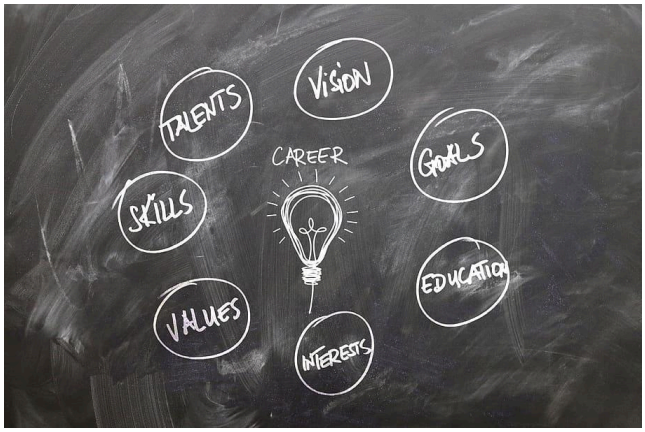
How you will learn in this course: Students will demonstrate knowledge of concepts related to a residential building. Students will design and construct full-scale structures using the tools and machines commonly utilized in the field of carpentry. Students who learn through demonstration and by hands-on activities will excel in this course.

Why this course is important: This course will provide students with the knowledge of how a residential structure is designed and constructed, which will enable them to critically analyze a home during the home building/purchasing process. Students interested in pursuing a career in architecture, engineering, carpentry, electrical, plumbing, HVAC, or construction trade will benefit from the successful completion of this course.

Work-based Learning

COURSES

- School to Work
- Youth Apprenticeship



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The School District of Tomahawk operates multiple work-based learning programs. Work-based Learning is a core component of Career & Technical Education. Students seek a clear connection between their future career(s) and their class work. The opportunity to explore and experience a world of work is beneficial to career decision making. Experiencing the workplace provides a firsthand look at what skills are needed to be a successful employee and how knowledge learned in school is put into action in the workplace. Work-based learning also informs the student about career choices. Work-based learning is the key to a successful 21st century. Career readiness and employability skills are the foundation of each program.

School to Work
Length of course: Year
Eligible grade levels: 12
Prerequisites for this course: Class in related area. Students should enroll in Youth Apprenticeship. Placement in School to Work will be determined by the school counselor and youth apprenticeship coordinator based on employment type and criteria.
Course credit: 1 credit
Course fee: None
Additional info: Release time requests will be determined by the teacher based on criteria.

What you will learn in this course: Employability skills such as the ability to plan and organize work projects, the ability to successfully complete work tasks, and the ability to interact with others appropriately in a work setting.

How you will learn in this course: Students will work in the community as a regular employee and earn a paycheck. Employers will be asked to provide a regular evaluation.

Why this course is important: Students who successfully complete the program earn the Wisconsin Employability Skills Certificate.

Youth Apprenticeship
Length of course: 1-2 Years
Eligible grade levels: 11-12
Prerequisites for this course: None
Course credit: Varies
Course fee: None
Additional info: Release time requests will be determined by the teacher based on criteria.

What you will learn in this course: Students in Youth Apprenticeship will learn specific job skills in career areas. Tomahawk High School partners with area businesses and technical colleges to offer Youth Apprenticeships opportunities in Agriculture, Food and Natural Resources, Architecture and Construction, Arts, A/V Technology and Communication, Business Administration, Education, Finance, Government and Public Administration, Health Science, Hospitality and Tourism, Human Services, Information Technology, Law, Public Safety, Corrections, and Security, Manufacturing, Marketing, Science, Technology, Engineering and Math, Transportation, Distribution and Logistics.

Continued on the next page

Youth Apprenticeship, continued

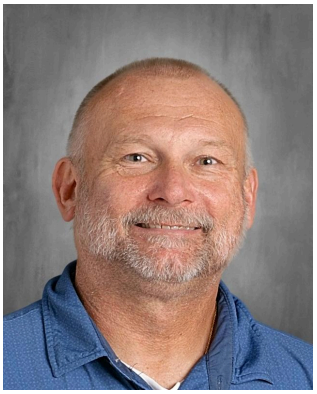
How you will learn in this course: Students will have classroom work either at the high school or through one of the technical colleges. They will then apply those skills in the work setting in the community. Students are regular employees and earn a paycheck.

Why this course is important: Students who successfully complete the program earn a Youth Apprenticeship Certificate from the State of Wisconsin. If taking classwork through the technical colleges, they will earn both high school and college credit. The University of Wisconsin will also award credit for students who successfully complete a 2-year Youth Apprenticeship Program.

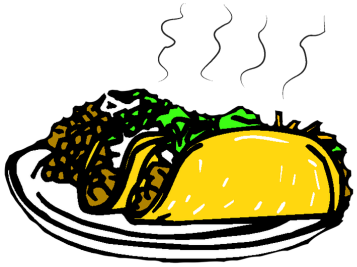
World Languages Department

COURSES

- Spanish I
- Spanish II
- Spanish III
- Spanish IV



¡Gracias!



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Spanish I
Length of Course: Year
Eligible grade level: 9-12
Prerequisites for this course: None
Course Credit: 1 credit
Course Fee: None

What you will learn in this course: The goal of this course is to enable students to begin to understand the culture of Spanish speaking countries and to communicate in the target language in simple speech. Speaking, reading, writing, and comprehension in the target language will be the focus. In addition, students will gain an appreciation of other cultures and be introduced to various aspects of Hispanic culture.

How you will learn in this course: Students will experience daily practice with the language in oral and written format. Music, art, technology, crafts, holiday celebrations, and history will be incorporated to enhance understanding.

Why this course is important:
It is important for students who:

- plan to work with the public in any profession given our large Hispanic population
- would like to fulfill college entrance requirements where applicable
- would like to get college credit for material learned in high school through college test out options (school specific)
- would like to improve their knowledge and appreciation of other cultures and of Hispanics within our own country
- would like to travel in the future
- would like to improve their English skills

Spanish II
Length of Course: Year
Eligible grade level: 10-12
Prerequisites for this course: Completed Spanish I
Course Credit: 1 credit
Course Fee: None

What you will learn in this course: The goal of this course is to enable the student to communicate with more sophisticated structures and with an enlarged vocabulary on a greater variety of topics than Spanish I, and to advance cultural knowledge of the Spanish speaking world. First year topics and structures will be reviewed. Students will further their skills in writing, speaking, and comprehension in the areas of home, food, professions, travel, and health, both in the present and past tenses. They will be able to communicate on an increasingly complex level about things they did in the past and demonstrate increased knowledge of Hispanic culture.

How you will learn in this course: Students will experience daily practice with the language in oral and written format. Music, art, technology, crafts, holiday celebrations, and history will be incorporated to enhance understanding.

Why this course is important:
It is important for students who:

- plan to work with the public in any profession given our large Hispanic population
- would like to fulfill college entrance requirements where applicable
- would like to get college credit for material learned in high school through college test out options (school specific)
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Spanish III
Length of Course: Year
Eligible grade level: 11-12
Prerequisites for this course: Successful completion of Spanish II
Course Credit: 1 credit
Course Fee: None

What you will learn in this course: The goal of this course is to continue to develop basic language skills with the ultimate goal of being able to function in the Spanish speaking world. The class will review structures and topics studied in the previous years and build on them, particularly mastering the past tenses. They will rely more on extrapolations and application than memorization and repetition. They will become better international citizens by demonstrating an increased understanding and appreciation for the cultures of other people, and will have the opportunity to travel abroad.

How you will learn in this course: Students will read simple authentic Spanish literature and discuss it. They will role play real life situations in order to practice communication skills. Students will be exposed to music, art, foods, festivities, and the traditions of Latin America, and use technology both to enhance classroom instruction and make authentic connections with Latin America.

Why this course is important:
It is important for students who:

- plan to work with the public in any profession given our large Hispanic population
- would like to fulfill college entrance requirements where applicable
- would like to get college credit for material learned in high school through college test out options. (school specific)
- would like to improve their knowledge and appreciation of other cultures and of Hispanics within our own country
- would like to travel in the future
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Spanish IV
Length of course: Year
Eligible grade levels: 12
Prerequisites for this course: Completed Spanish III
Course credit: 1 credit
Course fee: None

What you will learn in this course: The primary goal of this class is to become proficient in reading, writing, speaking, and understanding oral and written language. In addition students will appreciate the differences in various Spanish speaking cultures. They will study the geography, history, and culture of Spain and Latin American countries including authentic literature, art, and music from each area. Presentations will be conducted in the target language. They will become better international citizens by demonstrating an increased understanding and appreciation for the cultures of other people, and will have the opportunity to travel abroad.

How will you learn in this course: Students will read and discuss material relevant to various Hispanic communities. They will expand on previously learned vocabulary and grammatical structures including subjunctive mood and imperative forms. They will be exposed to music, art, foods, festivities, and the traditions of Latin America, and use technology both to enhance classroom instruction and make authentic connections with Latin America.

Why this course is important:
It is important for students who:

- plan to work with the public in any profession given our large Hispanic population
- would like to fulfill college entrance requirements where applicable
- would like to get college credit for material learned in high school through college test out options (school specific)
- would like to improve their knowledge and appreciation of other cultures and of Hispanics within our own country
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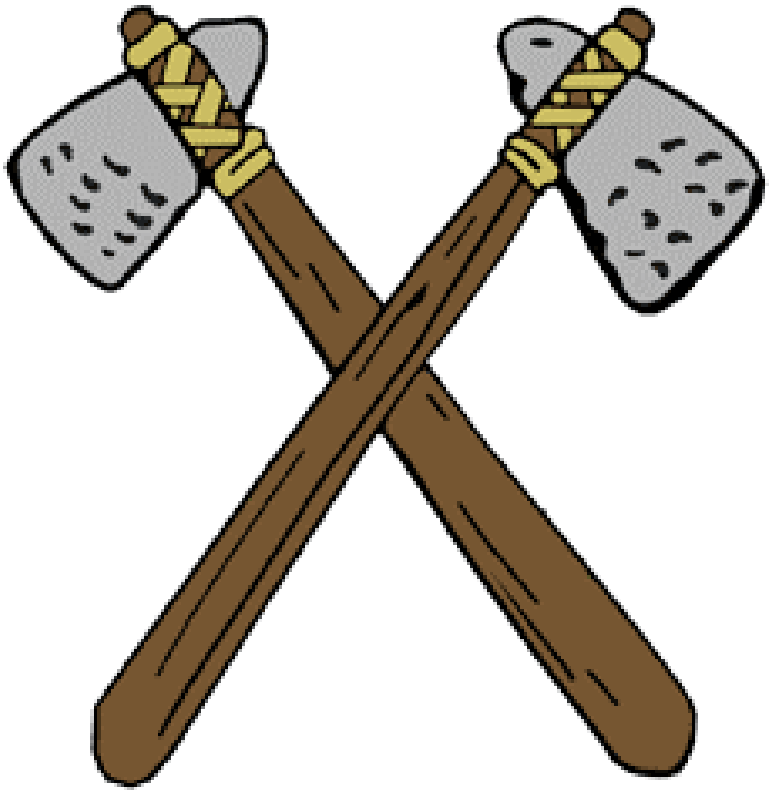

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