

2023-2024
Turtle Lake High School
Course Description



(Updated 04/20/2023)

**TURTLE LAKE HIGH SCHOOL
GRADUATION REQUIREMENTS**

Graduates will meet the following minimal criteria to graduate from Turtle Lake High School:

English	4 Credits
Science	3 Credits
Social Studies	3 Credits
Mathematics	3 Credits
Business	1 Credit
Physical Education	1.5 credits
Health	.5 credit - taken in 8th grade
Careers	.5 credit
Electives	9.5 credits
TOTAL	26 Credits

Equal Educational Opportunity

The Turtle Lake School District is committed to equal opportunity for all students in the district. It is in the policy of the Turtle Lake School District, pursuant to Section 118.13, Wisconsin Statutes, and P-19 Wisconsin Administrative Code, that no person, on the basis of sex, race, religion, national origin, ancestry, creed, pregnancy, marital or parental status, sexual orientation or physical, mental, emotional, or learning disability, may be denied the benefits of, or be discriminated against in any curricular, extracurricular, pupil services, recreational, or other program or activities.

AGRICULTURE

FOODS

Grades: 9-12.....½ credit

The Food class will be a fun learning experience of food basics and food preservation. This class will meet in the food lab on the lower level of the building. Basic recipe following and kitchen rules will be discussed. As three class advances, food preservation techniques will be demonstrated such as canning and dehydration of foods like jerky and fruit.

GREENHOUSE MANAGEMENT

Grades: 9-12..... ½ credit

Length: Semester

This course covers everything you need to know to successfully run a greenhouse business. Students will be researching, planning, planting, transplanting all in preparation for our plant sale. Students will learn inventory, pricing, and marketing. This class will be in charge of the microgreen and aquaponic plants as well.

HORTICULTURE

Grades: 9-12..... ½ credit

Length: Semester

This course will explore all aspects of growing plants. Students will learn landscape design, floriculture, aquaculture, and more. Expect many hands-on labs out in the greenhouse including pest management, fertilizing, and pruning.

LARGE ANIMAL SCIENCE

Grades: 9-12..... ½ credit

Length: Semester

This course will explore large animals. Species will include cows, pigs, sheep, goats, horses and more. Students can expect hands-on activities as we learn about products from each species and will cover nutrition, digestion, health and diseases, care and management, facilities, and breeds.

LIVESTOCK MANAGEMENT

Grades: 9-12.....½ credit

Length: Semester

Animal agriculture has changed dramatically in the past decade and will continue to change at an even more rapid rate in the future. Along with positive changes, we have new animal diseases, concerns for the environment, human health, and more. This course will help you analyze the current situation and make plans to take advantage of the changes in animal agriculture. This class can be taken for 3 NTC credits upon successful completion.

NATURAL RESOURCES

Grades 9-12..... ½ credit

Length: Semester

This class will focus on our natural resources with units such as water, air, soil, trees, wildlife, pollution and conservation. We will also be taking trips to the school forest for hands-on learning projects such as maple syrup in the spring.

PLANTS AND ANIMALS

Grades: 9-12..... ½ credit

Length: Semester

This is an exploratory agricultural class. As we learn about plants, we will cover soil, plant care, fertilizers, and more. This class will help with the plant sale and work in the greenhouse. In the animal units we will explore basic animal care for both large and small animals. We will take a look into management practices, breeds, nutrition and digestion, and health.

SMALL ANIMAL SCIENCE

Grades 9-12..... ½ credit

Length: Semester

This course will explore small animals. The focus of the class will be on cats and dogs but will also include reptiles, rodents, birds and other common pets. We will cover nutrition, digestion, health and diseases, first aid/vet care, care and management, and breeds.

VET SCIENCE

Grades: 9-12..... ½ credit

Length: Semester

This course will explore the field of veterinary science with a small animal emphasis. Topics include terminology, safety, procedures and exams, anatomy and physiology, diseases and more. Students will have opportunities to learn through hands-on activities, field trips or guest speakers.

WILDLIFE CONSERVATION

Grades: 9-12..... ½ credit

Length: Semester

This is a course that will study wildlife species such as deer, elk, wolves and wild turkeys and more. We will discuss topics such as habitats, population management, conservation, and hunting. There will also be a unit on aquatic species and fishing and we will be taking trips to the school forest to explore more.

ART

ART FOUNDATIONS

Grades 9-12..... ½ credit

Length: Semester

In Art Foundations, students explore art and are introduced to materials, techniques, concepts, and processes used to create art. Students will also learn to make connections between art and life through reflection, self-expression, art criticism and critical thinking.

CERAMICS

Grades: 9-12.....½ credit

Length: Semester

Ceramics is the art of making objects with clay that is finished by firing. In this class students will experience the properties and possibilities of clay as they create pottery and sculpture projects. Hand building and wheel throw techniques will be explored. Students will be encouraged to create forms that are both functional and decorative.

DRAWING & PAINTING

Grades: 9-12..... ½ credit

Length: Semester

Drawing is a skill used to express one's ideas visually and is the foundation of artistic practice. In this class students will learn about drawing as an art form and tool for developing and communicating ideas. Studio projects are designed to allow students to practice new techniques and master skills.

Painting is an exploration of the techniques and materials used for painting. Students will explore color theory, composition, and the processes of painting. Student artists will have an opportunity to practice techniques, develop personal vision, and concentrate on a particular media or theme.

PRINTMAKING & FIBER ARTS

Grades: 9-12..... ½ credit

Length: Semester

Printmaking focuses on the basics of printmaking techniques and terminology. Students will be introduced to the distinctive nature of printmaking tools and processes. In Fiber Arts, students will be creative working with mixed fibers (yarn, rope, twine, felt, fabric) and unconventional materials as artistic mediums.

BUSINESS, MARKETING, & INFORMATION TECHNOLOGY

ACCOUNTING

Grades: 10-12..... 1 credit

Length: Year (taught every other year 2023-24, 2025-26)

Enrollment Limit: 24

This course will provide a basic understanding of the double entry accounting system. Students will learn concepts including: accounting rules, the accounting equation, the accounting cycle, transaction entry into journals, posting to ledgers, end-of-period financial statements and reports, payroll systems, banking activities, taxes, depreciation, uncollectible accounts, inventories, notes, and interest. This class can be taken for 4 NTC credits upon successful completion.

ADVERTISING

Grades: 9-12..... ½ credit

Length: Semester (taught every other year 2022-23, 2024-25)

Enrollment Limit: 20

This course is a continuation of marketing focusing on more specific areas of marketing. It is recommended that students take marketing as a prerequisite to advertising. Students will apply marketing mix concepts to sports and entertainment marketing, hospitality and tourism marketing, fashion marketing, and retailing. Promotion and advertising will be a primary focus of this course. The course will have a unit on selling techniques. Students will also maintain the school store as a part of this course.

BUSINESS LAW

Grades: 9-12..... ½ credit

Length: Semester (taught every other year 2023-24, 2025-26)

Enrollment Limit: 24

Business Law provides the student with a working knowledge of the legal system, legal rights and responsibilities of citizens, federal and state law, criminal and civil law, social and ethical issues, business ethics, and essentials of contracts. Students gain knowledge in problem solving, logical and analytical thinking, and are encouraged to challenge legal issues and defend their points of view. This will prepare students for survival in our law-saturated society. Students will also have an opportunity to observe the law in action and to hold a mock trial. This class can be taken for 3 NTC credits upon successful completion.

COMPUTER APPLICATIONS

Grade: 9..... ½ credit

Length: Semester

Enrollment Limit: 24

In this course students will learn basic skills in a variety of programs. The course will begin with a brief keyboarding and proofreading review, and quickly move into formatting, word processing, spreadsheets, databases, presentations, digital citizenship/internet basics, desktop publishing, and video editing. The course will also cover IT terminology, MS Windows OS features, ethics, and organizational skills. This class can be taken for 2 NTC credits upon successful completion.

DIGITAL COMMUNICATIONS

Grades: 9-12..... ½ credit

Length: Semester

Enrollment Limit: 24

This course will be a catch all for digitally creative. This course will be replacing the print yearbook with a digitally created yearbook. Students will be responsible for documenting the school year on camera (photo and video). Students will use digital camera equipment to capture eye appealing content. Students will learn photo/video editing techniques using industry software. Students will combine video clips and photos to create chapters highlighting events and activities from the school year. The senior graduation video and senior book will also be created in this course.

ENTREPRENEURSHIP & ECONOMICS

Grades: 9-12..... ½ credit

Length: Semester

This is an introductory level course designed to provide students with broad understanding of the basic essential principles of business and economics. Students will begin by learning a foundational understanding of economics. Students will learn about a market-oriented system including scarcity, resources, growth, supply, demand, inflation, various policies, and global economic issues. Students will then move into an entrepreneurship unit focusing on activities, functions, principles, responsibilities and challenges of a business enterprise. Concepts will include planning, organizing, managing and financing a business. Students will learn about trends, ownership models, human resources, marketing, and information management. A final project in this course will be to create a business plan.

IT ESSENTIALS

Grades: 9-12..... ½ credit

*2 Transcribed Credits, Northwood Technical College

Length: Semester

The curriculum is provided by CISCO and is an introductory training course to prepare students for future certifications in the information technology field. Students will learn tool use, assembly, troubleshooting, maintenance, installing operating systems, laptop and other portable devices, printers, scanners, and basic networking and security. The course will feature various hands-on labs including disassembling/reassembling computers. Students may earn a CISCO IT Essentials certification by taking and passing a final comprehensive exam.

MARKETING

Grades: 9-12.....½ credit

Length: Semester (taught every other year 2023-24, 2025-26)

Enrollment Limit: 20

In this course students will learn basic business and marketing concepts including economics, free enterprise, and supply and demand. Students will explore the functions of marketing focusing on the marketing mix. Students will learn about target marketing and work on a marketing research project. Students will create a product and determine how to distribute, price, and promote that product. Students will have the unique opportunity to create products and sell them through the school store in effect becoming entrepreneurs and operating their own school-based business. This class can be taken for 3 NTC credits upon successful completion.

PERSONAL FINANCE

Grades: 11-12.....½ credit

Length: Semester

Students will improve their financial literacy skills throughout this course. Concepts include learning about your consumer role, financial responsibilities, managing your money, career planning, pay and benefits, taxes, budgeting, checking and banking services, saving and investing, credit management and loans, buying a car, housing options, and insurance. A project/simulation will incorporate all the units. The overall mission of this course is to prepare students for their futures as responsible and productive citizens. This class can be taken for 3 NTC credits upon successful completion.

PHOTOGRAPHY

Grades: 9-12.....½ credit

Length: Semester

Enrollment Limits: 12

This course will expand how students currently use cameras and take photos. The focus will be on learning how to use digital cameras and video cameras to capture a variety of subjects. We will further explore the settings of cameras and types of photography. We will work with Photoshop and learn a variety of techniques to use with photos. If time allows students will also be introduced to Illustrator. Students will create a portfolio of high quality images showcasing creativity and various techniques. Additionally, students will document the activities and events of the

school year that will be used by the digital communications class to create a digital yearbook.

PROGRAMMING & APP DEVELOPMENT

Grades: 9-12..... ½ credit

Length: Semester (taught every other year 2023-24, 2025-26)

Enrollment Limit: 24

This course will teach a variety of concepts from the technological world. There will be a unit on basic web design and html, a unit on game design, and a unit on introductory programming concepts. If time allows there will also be a unit on the "Internet of Things" which explores the various types of technologies that interconnect people, places, and things to the Internet creating a SMART world.

WEB & GAME DESIGN

Grades: 9-12.....½ credit

Length: Semester

This course will introduce many of the basic concepts, issues, and techniques related to designing and developing on the computer. Students will learn the do's and don'ts of web page design by evaluating existing web pages. The basic elements will be taught including: design, graphics, data storage, and construction. Students will also learn how to read and use HTML. Web sites will be created both manually and through the use of web site development software. Software programs will include: Microsoft Word, Adobe, and content management (like GoogleSites). Students will also learn about the process of creating a game. Students will learn about game development fundamentals, rules and strategies of gameplay, and how to incorporate characters and stories/levels into a game's design. Units will include topics related to production and design, art/graphics, programming, sound/music, animation, etc. Students will be exposed to industry software that may include: Unity, Scratch, Photoshop, GameMaker, App Inventor, Unreal Engine, Python, Javascript, etc. Students will also learn about the history of gaming and about different types of games: 2D vs 3D, single user vs multiplayer, various genres, etc. Students will be able to evaluate and analyze games. Finally, students will learn about careers and trends in the gaming industry.

ENGLISH

AP ENGLISH LANGUAGE AND COMPOSITION

Grade: 11-12..... 1 credit

Length: Year

Prerequisite: English 9 & 10

The AP Language and Composition course aligns to the introductory college-level rhetoric and writing curriculum, which requires students to develop evidence-based analytic and argumentative essays that proceed through several stages or drafts. Students evaluate, synthesize, and cite research to support their arguments. Throughout the course, students develop a personal style by making appropriate grammatical choices. Additionally, students read and analyze the rhetorical elements and their effects in non-fiction texts, including graphic images as forms of text, from many disciplines and historical periods.

AP ENGLISH LITERATURE AND COMPOSITION

Grade 12..... 1 credit

Length: Year

Prerequisites: English 9,10,11

The AP English Literature and Composition course aligns to an introductory college-level literary analysis course. The course engages students in the close reading and critical analysis of imaginative literature to deepen their understanding of the ways writers use language to provide both meaning and pleasure. As they read, students consider a work's structure, style, and themes, as well as its use of figurative language, imagery, symbolism, and tone. Writing assignments include expository, analytical, and argumentative essays that require students to analyze and interpret literary works.

COMMUNICATIONS

Grades: 11-12.....½ credit

Length: Semester

This class is all about how we communicate in the 21st century. We will be looking and doing different forms of communication such as delivering speeches, writing emails, resumes, cover letters, sports broadcasting, podcasts, acting out an issue (skits and plays) as well as writing to convey understanding of things that are happening in the classroom and in the world around them. They will also be helping out the digital communications class, by writing some of the body copies that will be going into the yearbook as well as working on putting together the class history for the senior class. We will be looking at how best to communicate while using correct elements for style. Even though this class sounds like it is heavily based on communicating, we still will be looking at examples of the diff types of communication, reading and writing about them in order to improve our own.

CREATIVE WRITING

Grades: 11-12.....½ credit

Length: Semester

In this semester long class students will be writing in a variety of styles to develop their creativity. They will get to experiment in the following genres of writing: Poetry, Play, Short Story, Mystery, Sci-Fi, and Children's literature. They will start the semester off with poetry where they will practice writing poems in a variety of ways. Then they will recreate a classic short story into modern day English. In this unit they will be focusing on keeping the same plot, but using different word choice. When that is done, the students will move on to Children's literature where they will read, and write a children's book. They will then read that story to an elementary class. Our fourth unit is Play/Performance where the students will be developing a script that could be acted out. Following that is the Mystery Unit where students start out creating a scavenger hunt for the elementary, middle and high school students in order to help them when the time comes for them to write a mystery short story. Our final unit is Memories where they will recreate a childhood memory in a different time period, place, and add an alternate ending.

ENGLISH 9

Grade: 9.....1 credit

Length: Year

In English 9 students will be starting the year with a look at racism in America through the book *To Kill a Mockingbird*. After students are done with that they will transition to impromptu speaking in order to practice getting comfortable speaking in front of others. They will then head into writing a persuasive paper on a topic of their choice. By this time Christmas will be rolling around and the freshman will be working on Poetry including reading and recording their own poems. After Christmas they will begin a WW2 unit where they get to look at both sides of the war. When that is done, they will be working on a research paper about a topic relating to something that has been read this year. We will transition into Old English by reading *Romeo and Juliet*, and end the year exploring short stories from many different eras.

ENGLISH 10

Grade: 10.....1 credit

Length: Year

Prerequisite: English 9

This year-long course focuses on improving the student's language arts knowledge and skills so they meet the common core standards for 10th grade. Students will begin the year with a quarter long narrative writing unit, wherein they will be creating/composing an autobiographical portfolio. They will need to be asking parents some questions and it will be an enjoyable way to communicate. During the second and third quarter, students will read the American standard, *To Kill a Mockingbird*, and will create a multiple intelligence project from it. Next, students will research a possible career for their futures and write an MLA research paper, then present their findings in a speech. We will complete the year by reading and analyzing FDR's "Four Freedoms Speech," and reading Shakespeare's *Julius Caesar*.

GENRES:

Grades: 11-12.....½ credit

Length: Semester

In this semester-long class, students will be reading in class, and on their own a variety of genres that form literature. These will include but are not limited to classic novels, nonfiction, horror/thriller/mystery, science fiction, poetry, short story, and play. Students will have a variety of assessments on each of the units to determine that they understand the material being studied.

ISSUES IN SOCIETY LITERATURE (Banned Books)

Grades: 11-12.....½ credit

Length: Semester

In this semester-long class, we will be looking at how issues in society have been incorporated through literature and how society reacted to these texts. Many of the books that we will be reading are on the Banned Book list for a number of reasons. We will start out with reading *To Kill a Mockingbird* by Harper Lee and talk about racism. This will lead us into our Racism book groups where the students will read, and discuss other texts through time and cultures that deal with discrimination and racism. We will then move to read books on a variety of other topics including but not limited to: eating disorders, suicide, substance abuse, and mental health. Students will also be choosing a topic that we have covered throughout the class and writing a persuasive speech on it and then presenting it to the class. They will also be writing about why these topics come up in literature and how the world views them vs how these topics should be viewed.

LIFE AFTER HIGH SCHOOL

Grades: 11-12.....1/2 credit

Length: Semester

This semester-long class is all about life after high school. We will start the class off with resumes, cover letters and mock interviews where they will be put to the test of preparing themselves for an adult job after they leave TL. This will move into Technical Reading and Writing where students will read and write things that they will have to do in their career choice. When that is completed we will move into Children’s literature where students will learn about why parents read to kids, and what children get out of reading books. They will be reading both K-2nd grade and 3rd-5th grade texts, reading a book to a k-2 class along with a presentation, and writing a children’s book to wrap up the unit. Our last unit is American Ethnic Literature: students will be discovering the diversity of American culture, and relating it to their own so that when they are in the workplace with other cultures they have the background knowledge to assimilate to differences.

PLAY

Grades: 11-12..... 1/2 credit

Length: Semester

The class will consist of reading famous plays from classics to modern. Students will be reading some of the plays aloud in class and some of them as normal texts, read outside of class. Students will be reading a minimum of four plays and a maximum of six throughout the semester. Topics of discussion will be obviously the way it is written, character development, the importance of structure, along with stage directions, how it gets from text to a movie, and from a text to a performance to a movie.

READER'S CHOICE

Grades: 11-12.....½ credit

Length: Semester

Purpose: to get students to become lifelong readers and learners. Many students have to take an English class that they are not interested in. By creating a reading class that is project based, students can choose what to read, within reason, and how to evaluate that text in the best possible way. They also are not being forced to read things that they are not interested in. By reading texts that are engaging to the individual student, they will be more engaged overall in discussions and in class activities and be more likely to get something out of the text.

During these activities/discussions I will check in on how the students are understanding and digging deeper into what they are reading. We will talk about the connections being made, the social construct of the text, and what was going on during the time it was written, and what the author wanted the reader to get out of it and what kind of change or view of the world the author is trying to create/discuss/bring to light.

WAR LITERATURE

Grades: 11-12.....½ credit

Length: Semester

In this semester long class students will be reading and writing about the events that took place during Wars. They will read a variety of texts that will shed light to all of the aspects of this time in History. One of the texts that they will read is: *Unbroken* by Laura Hillenbrand, along with a selection of free choice texts, poetry and short stories. Students will be writing a research paper on a topic within this time period. By the end of class they should have a cross cultural view of war and the impact that it has on the world.

FAMILY CONSUMER EDUCATION

APPAREL AND DESIGN

/Grades: 9-12..... ½ credit

Length: Semester

This course will involve lessons on fashion and history, material and textiles, consumer awareness, clothing selection and care, garment construction and careers. Students will learn basic sewing skills while designing and constructing garments.

BAKING

Grades: 9-12..... ½ credit

Length: Semester

This course will cover all aspects of baking. We will cover safety, sanitation and functions of baking ingredients. We will make breads, pies, cookies, bars, and more. Students will learn decorating skills as they decorate some of their deserts.

CAREERS

Grades: 9-12..... ½ credit

Length: Semester

In this course you will study the career pathways. You will complete a job shadow to see first-hand what skills are needed in the workplace, complete job applications, resume, cover letter, follow up letter, reference list, participate in mock job interviews with local employers, and compile a portfolio of artifacts to use when interviewing for scholarships, jobs, or post-secondary programs.

COOKING

Grades: 9-12..... ½ credit

Length: Semester

This course will teach students basic cooking skills including safety, sanitation, nutrition and meal planning. Students can expect to participate in food labs an average of three days per week. We will have units on meats, pasta, veggies, fruits, soups, snacks, breakfast foods and more.

INFANT AND TODDLER DEVELOPMENT

Grades: 9-12.....½ credit

Length: Semester

In this course you will study infant and toddler development as it applies to an early childhood education setting. Course competencies include: development of infants and toddlers, prenatal and postnatal conditions, child development theories, heredity and the environment, brain development, and caregiving routines. Successful completion of the course will lead to 3 NTC credits.

LIFE SKILLS

Grades: 9-12..... ½ credit

Length: Semester

This course is designed to build knowledge and skills needed for everyday life. Topics will include money management, cooking, sewing, home and car maintenance, goal setting and character development.

WORLD LANGUAGES

SPANISH I

Grades: 9-12..... 1 credit

Length: Year

Enrollment Limit: 20

Students will learn basic vocabulary and sentence structures through games, songs, readings, videos, web sites, texts, direct instruction and Total Physical Response. The focus of the class will be on pronunciation, basic vocabulary and grammar rules, simple communicative tasks and conjugation in the present, present progressive and simple future tenses. Students will be expected to read, write, respond to oral cues, perform, and speak in the target language.

SPANISH II

Grades: 10-12..... 1 credit

Length: Year

Enrollment Limit: 20

Prerequisite: Spanish I

Students will continue to foster their enjoyment of Spanish by reinforcing concepts and structures from Spanish I through the use of games, songs, readings, videos, web sites, texts, direct instruction, and Total Physical Response. We will continue to learn new vocabulary and verb tenses with special emphasis on irregular verbs and the preterit and imperfect tenses. Through the use of realia and role playing in the target language, students will increase their proficiency in reading, writing, listening, and speaking.

SPANISH III

Grades: 11-12..... 1 credit

Length: Year

Enrollment Limit: 20

Prerequisite: Spanish I & II

Spanish III will build on language skills acquired in Spanish levels I & II. The focus will be in the areas of listening, reading, writing, and speaking. Students will further develop vocabulary skills through oral and written exercises and through the application of vocabulary to create sentences and short paragraphs in written and oral form. Students gain listening and speaking skills through the use of online activities, audio, and video resources. This includes conversational development in familiar topics and stories, major holidays and cultural celebrations, as well as understanding and responding to commands and questions. Students should take Spanish III if they have an interest in the language, desire to travel, would like to be able to speak to more people in the world, plan to use Spanish in their future career, and/or plan to attend a university.

Course Objectives Upon the successful completion of this course, students will be able to:

- Communicate and exchange information on concrete, factual, and abstract topics.
- Read, discuss, summarize, and demonstrate comprehension of main ideas.
- Identify specific information from a listening situation, such as dialogues, poems, or short stories.
- Apply newly learned vocabulary to create sentences and paragraphs in written and oral form.
- Compare and make connections between students' native language and culture and that of diverse areas of the Spanish-speaking world, focusing on the products, practices, and perspectives of the target cultures.

MATH

ALGEBRA I

Grade: 9..... 1 credit

Length: Year

Prerequisite: Successful completion of 8th grade math or pre-algebra

This course will include the study of operations with integers, problem solving strategies, area and perimeter, sub problems, patterns, linear equations, algebraic expressions and equations, ratios, and similarity, systems of linear equations, slope, slope-intercept form, factoring, exponents, and quadratic equations. Algebraic topics spiral throughout, so students continually develop and review their knowledge using applications of geometry, probability, and statistics.

ALGEBRA II

Grades: 10-11..... 1 credit

Length: Year

Prerequisite: Geometry or consent of instructor (may be taken concurrently with Geometry)

This course will include the study of functions using multiple representations, linear and quadratic functions, arithmetic and geometric sequences, discrete and continuous functions, exponential functions, transformations of graphs including parabolas, cubics, exponentials, and rational functions, linear systems, logarithms and other inverse functions, polynomials, general systems of equations, and matrices.

CALCULUS

Grade: 12..... 1 credit

Length: Year

Prerequisite: Pre-Calculus

This course will include the study of change functions, the relationship between distance, velocity, and acceleration, Riemann sums, limits, continuity, instantaneous rates of change, derivatives, curve analysis, advanced derivative tools, applications of derivatives, area functions, area between two curves, integration tools, and applications of integration.

GEOMETRY

Grade: 10..... 1 credit

Length: Year

Prerequisite: Successful completion of Algebra or instructor's approval.

This course will include the study of coordinate grids, perimeter, area and the Pythagorean Theorem. Linear and quadratic equations, graphing, logical argumentation, problem solving, patterns, properties of angles and lines, spatial visualizations, surface area, volume, properties of circles, geometric probability, theorems, area, volume, similarity, trigonometry, deductive reasoning, and geometric proofs will also be covered. Geometric topics spiral throughout, so students continually develop and review their knowledge using applications of algebra, probability, and statistics.

JR/SR MATH

Grades: 11-12..... 1 credit

Length: Year

Prerequisite: Geometry or consent of instructor

This course will help students to develop problem-solving skills and gain an appreciation for the application of mathematics in their lives and in the world around them. The topics in this course will depend on the interests and abilities of the students. The topics will include applications of algebra and geometry, financial math, and the use of a spreadsheet as a computational tool.

PRE-ALGEBRA

Grade: 9..... 1 credit

Length: Year

Prerequisite: Teachers' recommendation

Students will find out for themselves how Algebra fits into their lives, overcoming the attitude that "I'll never use that again." Students' progress from arithmetic to generalization involving variables and finally to more formal algebraic brain manipulations, including equations by writing, graphing, and solving them. Algebraic topics spiral throughout, so students continually develop and review their knowledge using applications in geometry, probability, and statistics.

PRE-CALCULUS

Grades: 11-12..... 1 credit

Length: Year

Prerequisite: Algebra 2

This course will include the study of trigonometric functions, analytic trigonometry, linear and exponential modeling, programming on the TI-83+ graphing calculator, transformation of functions, area under a curve, logarithms and exponents, algebra tricks, and an introduction to limits.

STATISTICS

Grades: 9-12..... 1 credit

Length: Year

Prerequisite: Algebra I

This course will include descriptive statistics for one-variable data and two-variable data, comparing one-variable samples, modeling one- and two-variable data, sample-to-sample variability, experimental and theoretical probability, counting principles, probability distributions, confidence intervals, sample size and an introduction to hypothesis testing.

MUSIC

BAND

Grades: 9-12..... 1 credit

Length: Year

Prerequisite: Previous year in Band, or Band experience

High school band is a vehicle that allows students to participate in a group activity playing a musical instrument. Music is prepared for presentations throughout the year. Opportunity is also provided for solo and small ensemble participation. The players may also perform at large group festivals based on the discretion of the director. A student must have acquired a certain level of proficiency on the instrument before they can participate in band. This includes Marching Band and Pep Band performances throughout the year.

CHORUS

Grades: 9-12..... 1 credit

Length: Year

Open to all students. Students will participate in the following concerts: Fall, Christmas, Spring, and Large group festivals (depending on the year), as well as perform at graduation. Students may also participate in solo and ensemble. Choir is a great place to meet new people and share the joy of making music.

MARCHING BAND AND PEP BAND

Students, grades 9-12, combine to form a marching band and pep band. The groups perform at athletic events with the marching band performing at a couple parades, to gain additional knowledge of various musical experiences. Marching band performs in the fall with the Pep band playing at most varsity home games.

PHYSICAL EDUCATION

HIGH SCHOOL PHYSICAL EDUCATION

Grades: 9-12..... ½ credit

Length: Semester, can be taken for entire year

9-12 physical education is the basic course in high school physical education. Many new concepts and movement forms will be introduced within this course as well as the development of previous skills learned. Students in this course will focus on achieving healthy lifetime fitness skills, knowledge and skills in a variety of activities, and learning within the physical education scope and sequence. Many aspects of being a lifetime health advocate such as personal fitness goals, 5 components of fitness and exhibiting a physically active lifestyle are the main focus with 9-12 physical education.

This class may include the following activities: Archery, disc golf, snow shoeing, cross country skiing, canoeing, roller blading, table tennis, rock wall, biking, soccer, flag football, golf, volleyball, fitness, dance, water safety, basketball, gymnastics, badminton, pickleball, track and field, softball, weight training, floor hockey, CPR, AED, and First Aid.

FITNESS

Grades: 9-12..... ½ credit

Length: Semester

Fitness is a class designed for students to learn and focus on skills that will improve their overall fitness levels. Students in this class will learn about the 5 components of fitness and develop plans that will strive to improve each of these 5 areas. The Bigger Faster Stronger weight training program will be utilized in this class to develop proper muscular strength, endurance, and flexibility. Speed and agility training will also be used to improve on student's quickness as well as cardiovascular fitness. The goal of this course is to develop an understanding in students that physical activity provides opportunities for enjoyment, challenge, self-expression, and positive social interaction.

SCIENCE

ANATOMY AND PHYSIOLOGY

Grades: 11-12..... 1 credit

Length: Year

Anatomy and Physiology is an elective course intended for students who are interested in studying more about the human body and how it works. This course will study each major human body system, including its cellular and organ structures and functions. Anatomy and Physiology is a course that will teach you more about yourself, structural makeup, and how you physically work.

AP BIOLOGY

Grades: 11-12.....1 credit

Length: Year

Advanced Placement Biology is a year-long course designed to give high school students an opportunity to earn an AP credit on their high school transcript, as well as placement credit for an introductory college-level science course. Students who earn a qualifying score on the AP Biology Exam are typically eligible to receive college credit and placement in an advanced science course in college. This course is aligned to the College Board AP Biology Curriculum Framework. This course is designed to prepare students for the Biology College Board Advanced Placement Exam.

AP CHEMISTRY

Grade: 11..... 1 credit

Length: Year

Prerequisite: Physical Science with a grade of B or higher and instructor approval

AP Chemistry is the second class of a two-year sequence designed to prepare students to take the AP Chemistry test in May. Topics include chemical structure, advanced equilibrium, weak acids and bases, and thermochemistry. Successful completion of the AP Chemistry test will lead to college credit.

AP PHYSICS

Grade: 12..... 1 credit

Length: Year

Prerequisite: Approval of the Math and Science faculty

AP Physics is a yearlong class designed to prepare students to take the AP Physics test in May. Topics include Vector Analysis, Kinematics, Forces, Energy, Circular motion, Momentum, Waves, and Electricity. This class is heavily lab based, and those labs are almost exclusively self-guided. Successful completion of the AP Physics test will lead to college credit.

BIOLOGY

Grade: 9.....1 credit

Length: Year

Prerequisite: Science 8

Biology is the required 9th grade science class. This course will review the characteristics, processes, and diversity of life on Earth. The course is intended to be a challenging review and introduction to important biological ideas. Units of study in Biology will include: Introduction to Biology, Energy and Cells, Genetics and Heredity, Evolutionary Relationships, Life Functions of Organisms, Controlling Living Systems, and Interactions in the Environment. Major projects in this class will include the Fast Plant Growth Lab and the dissection of animals from different groups in the Animal Kingdom.

CHEMISTRY

Grade: 10..... 1 credit

Length: Year

Prerequisite: Biology with a grade of B or higher

Chemistry is a yearlong class that provides students a solid foundation in chemistry. Topics include chemical reactions, the periodic table, chemical bonds, stoichiometric, solubility, equilibrium, redox reactions, acid/base reactions, and organic chemistry.

ENVIRONMENTAL SCIENCE

Grade: 11..... ½ credit

Length: Semester

Prerequisite: Biology

Environmental Science is an elective course intended for students who are interested in the interactions of living and nonliving parts of nature. Students will study ecological relationships and explore the significance of all biotic and abiotic factors on Earth.

PHYSICAL SCIENCE 10

Grade: 10..... 1 credit

Length: Year

Prerequisite: Biology

Physical Science is an introductory Chemistry and Physics course. Fall semester will focus on Chemistry, including the structure of atoms, the periodic tables and chemical and nuclear reactions. The Spring semester will focus on Physics, including kinematics, forces, energy, waves and optics.

ZOOLOGY

Grade: 11..... ½ credit

Length: Semester

Prerequisite: Biology

Zoology is an elective course intended for students who are interested in studying animals. This course will investigate the taxonomy, characteristics, and examples of the simplest to most advanced animals on Earth. Throughout this course, students will compare and contrast animals to each other and recognize the connection each has with the others. Major projects of the course will be an insect collection and dissecting animals from various animal groups.

SOCIAL STUDIES

20TH CENTURY STUDIES

Grade: 9..... 1 credit

Length: Year

This course provides a one-year analysis of American history from the Civil War to the present day, with an emphasis on the twentieth century. Using a wide range of resources, primary documents and current events, students learn about the various political, social, and economic developments that have shaped and continue to shape the United States.

AMERICAN HISTORY THROUGH FILM

Grades: 10 -12..... ½ credit

Length: Semester

Students will examine how various aspects of American history are portrayed in film and contrast that with “how it really was.” Students will watch approximately nine historical films, each dedicated to an event, person, or era of American history. Prior to viewing, students will learn about the geographic and historic factors that combined to create the historical topic of the film by using maps and primary and secondary sources to create a framework for understanding the time and place portrayed. After the film, students will research, write, and/or create presentations to evaluate the film in comparison to actual historical events or offer a critical review of it.

AP PSYCHOLOGY

Grades: 11-12..... 1 credit

Length: Year

Prerequisite: Instructor’s permission

The AP Psychology course is designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. They also learn about the ethics and methods psychologists use in their science and practice.

CIVICS

Grade: 10..... 1 credit

Length: Year

The study of civics focuses on the knowledge about citizenship and how we can become effective citizens, the connections between our political system, our economy, our society, and our lives, and the development of skills needed to take action involving problems and improving our own community.

GLOBAL STUDIES

Grades: 11-12..... 1 credit

Length: Year

Global Studies utilizes the science of geography to understand the world around us and how it affects our everyday lives. Geography is the study of the earth and how people live and work on it. Using the five themes of geography (location, place, human-environment interaction, region, and movement) students will explore the regions of the world with respect to culture, economy, topography, geography, climate, and environmental issues.

WORLD HISTORY THROUGH FILM

Grades: 10-12..... ½ credit

Students will examine how various aspects of world history are portrayed in film and contrast that with “how it really was.” Students will watch approximately nine historical films, each dedicated to an event, person, or era of world history. Prior to viewing, students will learn about the geographic and historic factors that combined to create the historical topic of the film by using maps and primary and secondary sources to create a framework for understanding the time and place portrayed. After the film, students will research, write, and/or create presentations to evaluate the film in comparison to actual historical events or offer a critical review of it.

TECH ED

CONSTRUCTION

Grades: 10-12..... ½ credit

Length: Semester

This course is designed to give the students a basic understanding of several construction trades: Electrical trades, Residential building framing, Finish woodwork, Masonry and Plumbing.

The students will study blueprint readings and construction trade processes. Clinical activities, videos, discussions, and expert speakers will be used to describe the process of residential building construction trades. The instruction covers layout and planning, footings and foundation walls, skeletal frame and masonry wall construction, roof and roof construction, door and window framing, stair design and layout. The information learned in this course can be used in careers like carpentry, construction, electrician, plumbing and drafting. It will help students to make career choices and be able to further his/her education to specialize in one of the construction trades.

FAB LAB

Grades: 10-12..... ½ credit

Length: Semester

The student will be employing the equipment in the Fab Lab to design and build objects to sell for a profit through our school store. This class will be run in conjunction with the Marketing course to allow students to see a product designed, marketed and produced.

HTMAA (How to Make Almost Anything)

Grades: 9-12..... ½ credit

Length: Semester

This is a hands-on course where you will learn the Digital Design and Fabrication Process. This includes learning and using the Engineering Design Process, 2-D and 3-D design software, and a variety of machines (vinyl cutters, laser cutter, mini-mills, 3D printers and CNC routers).

HTMAA MECHANICAL

Grades: 9-12..... 1/2 credit

Length: Semester

This is a one-semester course where students will use the knowledge gained in "HTMAA" and apply it to designing and making mechanical toys. Focusing on CAD software (SolidWorks) students will learn to design and fabricate a variety of children's toys, culminating with each student building their own piece of a class-wide Rube Goldberg Device.

SMALL ENGINES

Grades: 9-12..... 1/2 credit

Length: Semester

The student will do many hands-on activities in the lab. Each student will have their own engine to disassemble, study the workings of, and re-assemble. The students will be able to see every part of the engine while it is studied in class discussions. They will have a great feeling to get the engine running again!

WELDING

Grades: 9-12..... 1/2 credit

Students will explore careers related to metals and identifying supplies and equipment needed in this field. The students will spend a majority of this class in the shop gaining hands-on experience with metal working. Students will oxy-acetylene, wire feed, and Arc weld as well as performing cutting and brazing.

WELDING FOR MECHANICS

Grades: 9-12..... 1/2 credit

Length: Semester

In this course students will continue to learn materials and techniques used in welding related fields. Students will work with machinery and processes associated with the welding industry such as layouts, separating, GMAW, SMAW, Oxy/Fuel and other processes. Students will use these processes to build projects that will reinforce these concepts. This course will be teaching the curriculum from NTC Welding for Mechanics course. Any student passing this course with a grade of B or better will be eligible to receive 2 NTC credits.

OTHER CREDIT OPPORTUNITIES

CERTIFIED NURSING ASSISTANT (CNA)

Age 16+..... ½ credit

Length: Four week course during the summer

The Nursing Assistant program provides classroom, laboratory instruction and supervised practice in area nursing homes and hospitals. The program is approved by the Wisconsin Department of Health Services (dhs.wisconsin.gov), Office of Quality Assurance (dhs.wisconsin.gov/rl_dsl/bqa.htm). After successfully completing this program, students will be eligible to complete the written and skills exams to be placed on the Wisconsin Nurse Aide Registry.

UPWARD BOUND SUMMER PROGRAM

Grades: 9-12..... ½ credit

Prerequisite: Must be a member of the Upward Bound program

The Upward Bound Summer Program is a six-week residential course offered at a local University. Students complete courses in core subjects areas to help prepare them for the following school year. Students also participate in college campus tours, working with current college students and faculty members, financial literacy classes, ACT preparation, industry tours and other educational opportunities during the summer program.

YOUTH APPRENTICESHIP

Grades: 11-12..... ½ credit

Length: Year

Prerequisite: Must be a member of the Youth Apprenticeship program

Youth Apprenticeship is a course that allows students to earn credit for quality work experiences. Students are required to work 450 hours from June through the following July. In addition to working 450 hours, students must be compensated throughout earning at least minimum wage. Students can work in one of the following industries: Agriculture/Food/Natural resources, Architecture/Construction, Art/AV Tech Communications, Finance, Health, Science, Hospitality/Lodging/Tourism, Information Technology, Manufacturing Marketing, Science/Technology/Engineering/Mathematics, or Transportation/Distribution/Logistics. Students may be granted work release and allowed to work hours during the school day; students can complete an apprenticeship working only nights and weekends as well. Course requirements include completion of the initial registration paperwork, completing 3 employer evaluations with satisfactory scores, completing a survey, and completing the 450 hours with quarterly documentation.

The School District of Turtle Lake does not discriminate on the basis of sex, race, color, age, national origin, ancestry, creed, religion, pregnancy, marital or parental status, sexual orientation, or physical, mental, emotional or learning disability.