

UNDERWOOD HIGH SCHOOL



COURSE CATALOG

2019-2020

ART

Class: Foundations of Art

Length/Credits: 1 trimester (.33 credits)

Offered to: 9th grade

Graduation Requirement: No

Offered With: Industrial Arts 9 and Careers 9

Prerequisites: none

Course Description: In this class students will be introduced to a wide variety of mediums in exploring their own artistic expression. An overview of the elements of art and principles of design will be provided, lending themselves as the basic structure in problem-solving approaches to visual exploration. The course will also deal with artists/movements and their impact to the arts. Students will be exposed to the fundamentals of art criticism, evaluation and art history.

Class: Graphic Arts

Length/Credits: Half year - 1 semester (.5 credit)

Offered to: 10-12th grade

Graduation Requirement: it is one option to fulfill your Fine arts requirement

Prerequisites: none

Course Description: This class will give students the knowledge and skills to create computer-generated art. Focusing on Pixelmator, a Mac computer graphic program, students will learn the principles needed for working in computer design. Projects range from creating abstract art to business geared applications.

Class: Drawing and Painting

Length/Credits: Half year - 1 semester (.5 credit)

Offered to: 10-12th grade

Graduation Requirement: it is one option to fulfill your Fine Arts requirement

Prerequisites: none

Course Description: In this class, students will focus mainly in the drawing and painting fields, with a variety of techniques and mediums explored. The elements of art and principles of design will be an important part of the class. The students will learn how important drawing and painting are, while at the same time gaining knowledge in their history. As a part of the class, students will continue to understand art criticism and its effectiveness in evaluation and developing artwork.

Class: Digital Photography

Length/Credits: Half year - 1 semester (.5 credit)

Offered to: 10-12th grade

Graduation Requirement: it is one option to fulfill your Fine Arts requirement

Prerequisites: none

Course Description: In this course, students will learn the basics of photographic composition and lighting, the basics of using a digital camera and the basics of preparing images for printing.

Students will also learn basic color theory and the fundamentals of image processing. This course is designed for the student who has no background in photography.

Class: Design

Length/Credits: Half year - 1 semester (.5 credit)

Offered to: 10-12th grade

Graduation Requirement: it is one option to fulfill your Fine Arts requirement

Prerequisites: none

Course Description: This course introduces students to the formal elements of design: line, shape, pattern, value, texture, color and space. Students use these elements to engage with problems of visual organization.

Class: Ceramics

Length/Credits: Half year - 1 semester (.5 credit)

Offered to: 10-12th grade

Graduation Requirement: it is one option to fulfill your Fine Arts requirement

Prerequisites: none

Course Description: This class is a study of form in clay. It explores a variety of techniques and skills in creating clay and sculptural forms. Students will learn terms, styles, processes, and approaches to clay. The elements of art and principles of design will be stressed as they are applied to form and surface decoration. Historical and present references will be explored and applied as they pertain to function and non-functional pieces.

Class: Fiber Arts

Length/Credits: Half year - 1 semester (.5 credit)

Offered to: 10-12th grade

Graduation Requirement: it is one option to fulfill your Fine Arts requirement

Prerequisites: none

Course Description: This course is an introduction to the diversity of textile arts. Students learn hands-on processes, such as, knitting, dyeing, sewing, and weaving. After initial experimentation with time-honored techniques, students are encouraged to push the boundaries of the media, using traditional and nontraditional materials. Students will need to bring some material for this class. Students will need to have 10 t-shirts (old or new) and materials for a 4' x 5' quilt.

Class: Yearbook

Length/Credits: Half year - 1 semester (.5 credit)

Offered to: 10-12th grade

Graduation Requirement: it is one option to fulfill your Fine Arts requirement

Prerequisites: Only a few tenth graders each year will be allowed to take this course. Students must start this class at the beginning of the school year. They will not be able to add later in the year. In addition, students should be good with computers, multi-tasking, and meeting deadlines.

Course Description: Yearbook will focus on the planning, creation, selling, financing, and distribution of Underwood School's annual Yearbook. The finished product will be completely student-generated. Yearbook design includes creating aesthetically pleasing layouts, using enhanced graphics, and effectively using color. Integral to yearbook journalism is developing and carrying out a theme, both verbally and graphically, that suits Underwood School. Work outside of normal classroom hours to take photos will be necessary for this class.

Class: College Handbuilding Ceramics

Offered: Odd Years - Ex. 2019-2020, 2021-2022, 2023-2024, etc.

Length/Credits: Half year - 1 semester (.5 credit)

M State Credits: 3 college credits; Meets MnTC Goal Area 6

Offered to: 10-12th grade

Studio Fee: \$30

Graduation Requirement: it is one option to fulfill your Fine Arts requirement

Prerequisites: A passing score on the reading portion of the Accuplacer; GPA of 2.8 for Seniors, GPA of 3.2 for Juniors; approval from Mr. Hartman. Typically only juniors and seniors are allowed in this college class.

Course Description: This course will develop the skills of ceramics, focusing on handbuilding. Using the methods of coil, pinching and slab building, the students will make a variety of forms, ranging from functional to sculptural. Students will create finished products, including the use of glaze and other finishes. The nature of handbuilding techniques provides a more immediate opportunity to express creativity.

Class: College Printmaking 1

Offered: Even Years - Ex. 2020-2021, 2022-2023, 2024-2025, etc.

Length/Credits: Half year - 1 semester (.5 credit)

M State Credits: 3 college credits; Meets MnTC Goal Area 6

Offered to: 10-12th grade

Studio Fee: \$30

Graduation Requirement: it is one option to fulfill your Fine Arts requirement

Prerequisites: A passing score on the reading portion of the Accuplacer; GPA of 2.8 for Seniors, GPA of 3.2 for Juniors; approval from Mr. Hartman. Typically only juniors and seniors are allowed in this college class.

Course Description: Students will create original works in a variety of printmaking techniques with emphasis on relief and serigraphy.

BUSINESS

Class: Careers

Length/Credits: 1 trimester (.33 credit)

Offered to: 8th grade

State Requirement: A Personal Learning Plan (PLP) must be completed

Offered With: Spanish 8 and Industrial Arts 8

Prerequisites: none

Course Description: In Careers assessments are taken to determine interests, personality, values, and skills of students to find careers that would match them. After selecting a few careers of interest, students research the education, pay, and job outlook of these different careers. College research and preparation for the work force will be done through by completing applications, resumes, and references. Study and discussion will take place regarding succeeding in the world of work and what employers want from employees. The capstone project for this course is completing the state required PLP. (*Minnesota Statutes, section 120B.125 requires all students beginning no later than 9th grade to have a Personal Learning Plan, PLP, around several key elements. This plan should be looked at as a life plan that includes academic scheduling, career exploration, career and employment-related skills, community partnerships, college access, all forms of postsecondary training, and experiential learning opportunities.*)

Class: Careers

Length/Credits: 1 trimester (.33 credit)

Offered to: 9th grade (2019-2020 last offering)

Graduation Requirement: no

Offered With: Production Art 9 and Industrial Arts 9

Prerequisites: none

Course Description: In Careers assessments are taken to determine interests, personality, values, and skills of students to find careers that would match them. After selecting a few careers of interest, students research the education, pay, and job outlook of these different careers. College research and preparation for the work force will be done through by completing applications, resumes, and references. Study and discussion will take place regarding succeeding in the world of work and what employers want from employees. The capstone project for this course is completing the state required PLP.

Class: Computer Applications

Length/Credits: 1 trimester (.33 credit)

Offered to: 9th grade (2020-2021 first offering)

Graduation Requirement: no

Offered With: Production Art 9 and Industrial Arts 9

Prerequisites: none

Course Description: In Computer Applications students learn the different components of Microsoft Office, including Word, Excel, and PowerPoint. In addition, students work on their keyboarding skills.

Class: Economics (High School level)

Length/Credits: 1 semester (.5 credit)

Offered to: 10-12th grade

Graduation Requirement: it is one option to fulfill your Economics requirement

Prerequisites: none

Course Description: This course covers information related to microeconomics and macroeconomics. In Microeconomics students will learn about the laws of supply and demand. Also we will learn how consumers and businesses react when supply and/or demand changes. In Macroeconomics students will learn about national and worldwide economics, including GDP, international trade, fiscal policy, monetary policy and the Federal Reserve.

Class: Personal Finance (High school level)

Length/Credits: 1 semester (.5 credit)

M State Credits: Course is articulated, students who earn a grade of "A" or "B" and entering a major at MState requiring this 3 credit course will have the class added to their college transcript

Offered to: 10-12th grade

Graduation Requirement: it is one option to fulfill your Personal Finance requirement

Prerequisites: none

Course Description: In Personal Finance we will look more in-depth at types of income, budgeting, saving and investing, credit, and insurance.

Class: College Microeconomics

Offered: Odd Years - Ex. 2019-2020, 2021-2022, 2023-2024, etc.

Length/Credits: 1 semester (.5 credit)

M State Credits: 3 college credits; Meets MnTC Goal Area 2, 5, and 9

Offered to: 11-12th grade

Graduation Requirement: it is one option to fulfill your Economics requirement

Prerequisites: A passing score on the reading portion of the Accuplacer; GPA of 2.8 for Seniors, GPA of 3.2 for Juniors; approval from Mrs. Hartman. Typically only juniors and seniors are allowed in this college class.

Course Description: Microeconomics stresses the concepts of scarcity, production possibilities, supply and demand curves, elastic and inelastic goods and services, competition, monopolies, oligopolies, poverty and income distribution in the United States. In general, microeconomics examines the functioning of individual industries and the behavior of the individual. During this course we will touch on Macroeconomics so that the high school economics requirements are covered.

Class: College Personal Finance

Offered: Odd Years - Ex. 2019-2020, 2021-2022, 2023-2024, etc.

Length/Credits: 1 semester (.5 credit)

M State Credits: 3 college credits

Offered to: 11-12th grade

Graduation Requirement: it is one option to fulfill your Personal Finance requirement

Prerequisites: Economics or College Economics, along with a passing score on the reading portions of the Accuplacer; GPA of 2.8 for Seniors, GPA of 3.2 for Juniors; approval from Mrs. Hartman. Typically only juniors and seniors are allowed in this college class.

Course Description: This course is an introduction to personal financial management and planning. Topics covered include key factors that affect personal income, budgeting, cash-flow management, use of credit and credit cards, planned borrowing, managing taxes and major expenditures including housing, automobiles, insurance and investments.

Class: College Macroeconomics

Offered: Even Years - Ex. 2020-2021, 2022-2023, 2024-2025, etc.

Length/Credits: 1 semester (.5 credit)

M State Credits: 3 college credits; Meets MnTC Goal Area 2 and 5

Offered to: 11-12th grade

Graduation Requirement: it is one option to fulfill your Economics requirement

Prerequisites: A passing score on the reading portion of the Accuplacer; GPA of 2.8 for Seniors, GPA of 3.2 for Juniors; approval from Mrs. Hartman. Typically only juniors and seniors are allowed in this college class.

Course Description: In Macroeconomics we will study economic principles as they relate to determinants of national income, national income accounting, business cycles, unemployment, inflation and aggregate expenditures. The course also examines macroeconomic policy and provides information to gain further understanding in the areas of fiscal policy, financial markets, money and banking, monetary policy, international policy and the varying viewpoints that have evolved throughout history, including the Keynesian and Monetarist schools of thought. During this course we will touch on Microeconomics so that the high school economics requirements are covered.

Class: College Careers II

Offered: Even Years - Ex. 2020-2021, 2022-2023, 2024-2025, etc.

Length/Credits: 1 semester (.5 credit)

M State Credits: 3 total college credits; PDEV1112 (1 credit) and PDEV1113 (2 credits)

Offered to: 11-12th grade

Graduation Requirement: no

Prerequisites: A passing score on the reading portion of the Accuplacer; GPA of 2.8 for Seniors, GPA of 3.2 for Juniors; approval from Mrs. Hartman. Typically only juniors and seniors are allowed in this college class.

Course Description: Students will work to develop career exploration skills and strategies through self-exploration, cultural perceptions, and career and major identification. Students will identify major/career possibilities. Then they will develop the application, resume writing, interviewing and job maintenance skills needed to conduct an effective job search.

ENGLISH

Class: English 9

Length/Credits: Full Year – 2 semesters (1 credit)

Offered to: 9th Grade

Graduation Requirement: Yes

Teacher: Mrs. Frie

Course Description: 9th grade English advances the reading and writing skills learned in junior high. Students will read and analyze two novels, various short stories, and *Romeo and Juliet*. Students will also work on perfecting the writing process from outline, to rough draft, to final essay, while incorporating vocabulary, spelling and grammar throughout the year.

Class: 10th grade English

Length/Credits: Full year- 2 semesters (1 credit)

Offered to: 10th Grade

Graduation Requirement: yes

Prerequisites: Successful completion of 9th grade English. If you have not passed 9th grade English, talk to the principal about your scheduling options. It is not ideal to be in 9th and 10th grade English at the same time.

Teacher: Ms. Christenson

Course Description: The overall goal for students in English 10 is to grow as thinkers, readers, writers, creators, producers, and thoughtful and informed students. We will be analyzing various texts and delve into the writing process to enhance our questioning, reflection, and critical thinking skills. You can expect to study, among many other things, vocabulary, public speaking skills, *The Great Gatsby*, *To Kill a Mockingbird*, poetry, and short stories.

Class: Journalism

Offered: Was offered in 2017-2018, not offered in 2019-2020

Length/Credits: 1 semester (.5 credit)

Offered to: 10-12th Grade

Graduation Requirement: it is one option to fulfill your English requirement

Prerequisites: Successful completion of 10th grade English; or, if you are in 10th grade, a recommendation from your 9th grade English teacher. (Taking two English classes at once is challenging; therefore, only 10th graders who enjoy English and have excellent study skills, organization, and the ability to prioritize should choose to take both 10th grade English and this class.)

Teacher: N/A

Course Description: As well as learning about and practicing good Journalism, the members of this class will be responsible for writing, editing, and publishing the school's newspaper. This includes brainstorming ideas for stories, interviewing people, attending games and events, writing, editing, revising, and publishing your work. Students in this class should enjoy writing, be comfortable interviewing others, be comfortable editing others' work and having their own work edited.

Class: Public Speaking

Length/Credits: 1 semester (.5 credit)

Offered to: 11-12th Grade

Graduation Requirement: it is one option to fulfill your English requirement

Prerequisites: Successful completion of 10th grade English

Teacher: Mrs. Frie

Course Description: This class will learn about the basics of public speaking as well as write and perform a number of speeches, as well as learning about and breaking down the anxiety that often comes along with public speaking. Some of the speeches include but are not limited to: informative, persuasive, pro/con, demonstration, toasts, graduation, and impromptu. You must perform your speeches in front of the class, so only take this class if you are or can become comfortable speaking in public.

Class: Poetry

Offered: Was offered in 2018-2019, not offered in 2019-2020

Length/Credits: 1 semester (.5 credit)

Offered to: 10-12th Grade

Graduation Requirement: it is one option to fulfill your English requirement

Prerequisites: Successful completion of 10th grade English; or, if you are in 10th grade, a recommendation from your 9th grade English teacher. (Taking two English classes at once is challenging; therefore, only 10th graders who enjoy English and have excellent study skills, organization, and the ability to prioritize should choose to take both 10th grade English and this class.)

Teacher: N/A

Course Description: Students in this class will write many different types of poetry, and the final product of the semester is a poetry portfolio full of original poems. All students in the class participate in the Poetry Out Loud competition, where students memorize published poems and recite them for an audience. Students will also learn about famous poets and write a comparative analysis essay on two published poems.

Class: British Literature

Length/Credits: 1 semester (.5 credit)

Offered to: 11th and 12th Grade Students

Teacher: Mrs. Frie

Course Description: Did you know British Literature is not just Shakespeare? Have you heard of King Arthur, Sir Lancelot, or Beowulf? These are just a couple of examples of stories/tales we will cover in this course. This course examines literature written by British writers that shaped their personal discovery, issues of the times, and events. We will cover time periods, authors, and works that influenced times then and continue literature today. We will cover a number of genres, starting with epic poems, moving to tales, poetry, and drama.

Class: Intro to College Writing

Length/Credits: 1 semester (.5 credit)

Offered to: 11-12th Grade

Graduation Requirement: it is one option to fulfill your English requirement

Prerequisites: Successful completion of 10th grade English

Teacher: Ms. Christenson

Course Description: You will write an essay every 1-2 weeks on different topics and in different formats. This is a good class for people who enjoy writing and want to improve their writing skills in preparation for college.

Class: Fiction - Nonfiction

Length/Credits: 1 semester (.5 credit)

Offered to: 10-12th Grade

Graduation Requirement: it is one option to fulfill your English requirement

Prerequisites: Successful completion of 10th grade English; or, if you are in 10th grade, a recommendation from your 9th grade English teacher. (Taking two English classes at once is challenging; therefore, only 10th graders who enjoy English and have excellent study skills, organization, and the ability to prioritize should choose to take both 10th grade English and this class.)

Teacher: Mrs. Frie

Course Description: Students in this class will focus on different genres of literature. Both fiction and nonfiction pieces will be used. We read some selections as a class, and we use literature circles to read books by authors such as Will Weaver, Gerald Anderson, and more. Essays and group presentations are also a part of the class.

Class: College Writing I

Length/Credits: 1 semester (.5 credit)

M State Credits: 3 college credits; Meets MnTC Goal Area 1

Offered to: 12th Grade

Graduation Requirement: it is one option to fulfill your English requirement

Prerequisites: A passing score on the Accuplacer; GPA of 2.8 for Seniors; successful completion of Intro to College Writing or approval from Ms. Frie. (Successful completion of Intro to College Writing is recommended but not required for the course.)

Teacher: Mrs. Frie

Course Description: This is a college level writing class that you will earn college credit for if you successfully complete it. Most colleges accept this course as your first college writing course (but check with your potential colleges first). As such, you will be expected to complete college-level work. You will write about six essays. The type of essay will vary. If you are not sure you are prepared for the demands of a college course, please take Intro to College Writing first.

Class: College Writing 2: Writing About Literature

Length/Credits: 1 semester (.5 credit)

M State Credits: 3 college credits; Meets MnTC Goal Area 1

Offered to: 12th Grade

Graduation Requirement: It is one option to fulfill your English requirement

Prerequisites: Successful completion of College Writing 1; A passing score on the Accuplacer; GPA of 2.8 for Seniors; successful completion of Intro to College Writing or approval from Ms. Frie.

Teacher: Mrs. Frie

Course Description: This class builds on the knowledge from College Writing I. Students will read a variety of literature and write using different critical lenses. Many colleges accept this class as transfer credits for writing, but check with your potential colleges to make sure this is the case.

Class: World Literature

Length/Credits: 1 semester (.5 credit)

Offered to: 11th-12th Grade

Graduation Requirement: It is one option to fulfill your English requirement

Prerequisites: Successful completion of 10th grade English; or, if you are in 10th grade, a recommendation from your 9th grade English teacher. (Taking two English classes at once is challenging; therefore, only 10th graders who enjoy English and have excellent study skills, organization, and the ability to prioritize should choose to take both 10th grade English and this class.)

Teacher: Ms. Christenson

Course Description: This class focuses on literature from different time periods and diverse regions of the world. Thematic units studied include: classic epics, love poetry, revolution, colonialism, and magical realism. Essay writing, discussions, and presentations are also an important part of this class.

INDUSTRIAL TECHNOLOGY

Class: Basic Auto and Woodworking (Industrial Arts 9)

Length/Credits: 1 trimester (.33 credits)

Offered to: 9th grade

Graduation Requirement: No

Offered With: Production Art 9 and Careers 9

Prerequisites: 7th Drafting and 8th Woods Safety

Course Description: Students will learn basic car care including checking fluids, checking brakes, checking tire pressures, changing a tire, learning about tire sizes, and basic auto shop safety. During the woodworking portion students will build a furniture-type project of their choice. Drafting from 7th grade and woodshop safety skills learned in 8th grade will be used on a daily basis in this class.

Class: Carpentry

Length/Credits: Full year- 2 semesters (1 credit) – If taken for one hour

Full year- 4 semesters (2 credits) – If taken for both hours

Offered to: 10-12th grade

Graduation Requirement: No

Offered with: None

Prerequisites: None

Course Description: Students will learn about all trades related to building a house in Carpentry. The trades include footing and foundations, floor and roof truss systems, framing, shingling, siding, sheet rocking, plumbing, wiring, insulating, hanging doors, finishing, and trimming. Work ethic will be strongly emphasized and students must be willing to work outside in extreme conditions.

Note: This class is offered for two class periods. You may just take one class period if you are enrolled in the earliest hour offered.

Class: Small Engines

Length/Credits: 1 semester (.5 credit)

Offered to: 10-12th grade

Graduation Requirement: No

Prerequisites: None

Course Description: Students in this class will learn how to disassemble 2 different engines, then accurately measure and diagnose all parts, and then reassemble and run the engines. They will also learn the theory behind how all engine parts work, along with drilling and tapping techniques for bolt and nut construction and repair.

Class: Welding

Length/Credits: 1 semester (.5 credit)

Offered to: 10-12th grade

Graduation Requirement: No

Prerequisites: None

Course Description: In Welding, students will practice how to stick weld, wire feed weld, oxy-fuel weld, and TIG weld. All of the common types of weld joints will be emphasized. Students will also learn many ways of cutting and separating metal, including plasma cutting, torch cutting, abrasive cutting, and band saw cutting. Students must be willing to get their hands dirty and work hard.

MATHEMATICS

Class: Geometry

Length/Credits: Full year – 2 semesters (1 credit)

Offered to: 9th grade or 10th grade

Graduation Requirement: Yes

Prerequisites: Algebra 1

Teacher: Mrs. Hoyt

Course Description: Students will learn the basic terms and notations of Geometry and will master skills in reasoning and proof. They will work with a variety of topics including parallel and perpendicular lines, congruent and similar triangles, ratios and proportions, right triangles and trigonometry, quadrilaterals, polygons, and transformations.

Class: Algebra 2

Length/Credits: Full year – 2 semesters (1 credit)

Offered to: 10th grade or 11th grade

Graduation Requirement: Yes

Prerequisites: Algebra 1, Geometry preferred as well

Teacher: Mrs. Hoyt

Course Description: Students in this class will work to master skills in linear and quadratic equations, inequalities and functions, matrices, polynomials and polynomial functions, rational exponents, and radical functions.

Class: Intro to College Math

Length/Credits: Full year – 2 semesters (1 credit)

Offered to: 11th and 12th Grade

Graduation Requirement: it is one option to fulfill your Math requirement

Prerequisites: Algebra II and/or Geometry

Teacher: Mr. Woodman or Mr. Meece

Required Items: Pencil, Paper, scientific or graphing calculator

Topics Covered: Topics covered will prepare successful student to take College Algebra and will include:

1st Semester

- Linear Equations
- Graphing Linear Equations and Inequalities
- Properties of Exponents
- Polynomials and Factoring
- Rational Expressions

2nd Semester

- Compound Inequalities and Systems of Equations
- Radicals
- Quadratics
- Rational Equations and Applications
- Functions

Class: Math in the Real World

Length/Credits: Full year – 2 semesters (1 credit)

Offered to: 12th Grade

Required Items: Pencil, paper, and scientific calculator

Graduation Requirement: it is one option to fulfill your Math requirement

Prerequisites: None

Teacher: Mr. Meece

Course Description: Math in the Real World applies basic algebraic and geometric concepts to the world around you.

Class: College Algebra

Length/Credits: 1 semester (.5 credit)

M State Credits: 4 college credits; Meets MnTC Goal Area 2 or 4

Offered to: 11th and 12th

Graduation Requirement: it is one option to fulfill your Math requirement

Prerequisites: Successful completion of Advanced Algebra; A passing score on the Accuplacer; a passing score on the Accuplacer; GPA of 2.8 for Seniors, GPA of 3.2 for Juniors. Only juniors and seniors are allowed in this college class.

Teacher: Mr. Woodman

Required Items: Pencil, Paper, scientific or graphing calculator

Course Description: This course includes rational, polynomial, exponential, logarithmic, inverse and quadratic functions. The course also includes equations, inequalities, complex numbers and systems of linear equations. Additional topics may include matrices and determinants.

Class: MATH 1207 Elementary Statistics

Length/Credits: 1 semester (.5 credit)

M State Credits: 3 college credits; Meets MnTC Goal Area 2 or 4

Offered to: 11th (and 12th)

Graduation Requirement: it is one option to fulfill your Math requirement

Prerequisites: Successful completion of Advanced Algebra; A passing score on the Accuplacer; GPA of 2.8 for Seniors, GPA of 3.2 for Juniors. Only juniors and seniors are allowed in this college class.

Teacher: Mr. Woodman

Required Items: Pencil, Paper, scientific or graphing calculator

Course Description: This course will investigate descriptive and inferential statistical concepts including measures of central tendency, measures of variation, measures of position, frequency tables, statistical graphs, probability distributions, hypothesis tests, confidence intervals, regression and correlation. TI calculators, MINITAB or EXCEL may be used for data analysis.

Class: MATH 1116 College Trigonometry 3 cred

Length/Credits: 1 semester (.5 credit)

M State Credits: 3 college credits; Meets MnTC Goal Area 2 and 4

Offered to: 12th

Graduation Requirement: it is one option to fulfill your Math requirement

Prerequisites: Successful completion of College Algebra; A passing score on the Accuplacer; GPA of 2.8. Only seniors are allowed in this class.

Teacher: Mr. Woodman

Required Items: Pencil, Paper, scientific or graphing calculator

Course Description: Topics include trigonometric functions, right triangle trigonometry, radian measure and circular functions, identities, equations, inverse functions, laws of cosines and sines. Optional topics may include complex numbers, vectors and polar coordinates. **graphing calculator, TI-83 or TI-84 recommended.**

Class:MATH 1122 Applied Calculus and Linear Algebra

Length/Credits: 1 semester (.5 credit)

M State Credits: 3 college credits; Meets MnTC Goal Area 2 or 4

Offered to: 12th

Graduation Requirement: it is one option to fulfill your Math requirement

Prerequisites: College Algebra (MATH 1114) or placement exam. Students need to have a solid background in college algebra and trigonometry. A passing score on the Accuplacer; GPA of 2.8. Only seniors are allowed in this class.

Teacher: Mr. Woodman

Required Items: Pencil, Paper, scientific or graphing calculator

Course Description: This course is an introduction to optimization, the simplex method, differential and integral calculus with an emphasis on application in the areas of business and the life and social sciences. This course is intended for all liberal arts and science students but is highly recommended for students pursuing business careers. **Graphing calculator, TI-83 or TI-84 recommended.**

MUSIC

Class: Band

Length/Credits: Full Year – 2 semesters (.5 credit)

Offered to: 9th – 12th Grade

Graduation Requirement: It is one option to fulfill your Fine Arts requirement

Teacher: Mr. Pelanek

Prerequisites: Junior High Band. Students who were not in band the previous year **MUST** get approval from the Band Instructor.

Course Description: Band is an excellent opportunity for musicians to continue developing their musical skills, both individually and as part of an ensemble. Band members will have the opportunity to play for the Marching Band, Pep Bands, Show Choir Band, Solo & Ensemble, Large Group band contest, the Winter Concert and our Spring Pops Concert. The Underwood Band will also be asked to perform for other community events throughout the year. A variety of musical styles are explored in this performance-based class. Students are required to practice and are expected to attend individual and group lessons during the course of the year. Lessons, as well as participation, effort and attendance will account for 50% of the grade. Performances throughout the year will make up the other 50%.

Class: Choir

Length/Credits: Full Year – 2 semesters (.5 credit)

Offered to: 9th – 12th Grade

Graduation Requirement: it is one option to fulfill your Fine Arts requirement

Teacher: Ms. Flint

Course Description: The major purpose of this course is to provide students with the basic knowledge of music, the initial ability to sing at an intermediate level, and the opportunity to participate in a group with multiple performance opportunities. The content of the class will include singing music from various genres and styles, instruction on how to sing correctly and to develop their voice, instruction on how to read a choral score, instruction on adding movement and choreography, part singing, and solo opportunities. Students will perform at two concerts, Large Group Contest, and other scheduled community performances throughout the school year. Students will also have the **option** to participate in Solo/Ensemble and Show Choir. They will also have the **option** to travel and perform with the Choir at national music festivals and on overnight music trips. **Students MUST be enrolled in the Choir for the 2 full academic years in order to travel.** Students are required to attend bi-weekly individual and group lessons during the course of the year. Lessons, active participation, attendance, and music theory assessments will account for 50% of the grade. Performances throughout the year will make up the other 50%. This is a performance-based class.

PHYSICAL EDUCATION

Class: PE 9

Length/Credits: 2 Trimesters (.67 credit)

Offered to: 9th Grade

Graduation Requirement: Yes

Offered with: Health 9

Teacher: Mr. Hendrickson

Course Description: Individual sports, team sports, rhythms and dance, fitness, weight training. Promotes a physically active lifestyle. Understands that physical activity provides the opportunity for enjoyment, challenge, self-expression and social interaction.

Class: Health 9

Length/Credits: 1 trimester (.33 credits)

Offered to: 9th Grade

Graduation Requirement: Yes

Offered with: PE 9

Prerequisites: 7th and 8th grade health

Teacher: Mrs. Arneson

Course Description: Within this health class, we will focus on decision making skills, assist in the knowledge of our developing bodies, discuss principles to function to our fullest, healthy potential in order to enhance the quality of one's life both now and in the future. The course will focus on strategies to maintain or improve individual well-being by emphasizing important health concepts.

Students will be able to 1. Demonstrate understanding of health principles incorporating a wide variety of aspects from nutrition and how to take care of their bodies by avoiding harmful substances. 2. Demonstrate understanding of self-responsibility for personal health and wellness. 3. Understand implications of personal and societal behavior on diseases and disease prevention

Class: Strength/Agility/Conditioning

Length/Credits: Full year – 2 semesters (1 credit)

Offered to: 10-12th Grade

Graduation Requirement: No

Prerequisites: Basic weightlifting knowledge. Being in a sport is not required, but is most beneficial for those students.

Teacher: Mr. Hendrickson

Course Description: Students in the class will weight lift 2-3 times per week and will participate in speed/coordination and sport practice. There will be some conditioning involved, but the emphasis will be on weight lifting and agility. There will be short homework assignments to assess learning, participation, and gains.

SCIENCE

Class: Physical Science

Length/Credits: Full year- 2 semesters (1 credit)

Offered to: 9th grade

Graduation Requirement: Yes

Teacher: Mr. Ross

Course Description: This course covers a wide variety of topics from basic chemistry to motion, forces, light, sound and energy. It is designed to give each student a solid scientific foundation upon which to build future scientific education. This course satisfies the physics/chemistry credit needed to graduate.

Class: Biology

Length/Credits: Full year- 2 semesters (1 credit)

Offered to: 10th grade

Graduation Requirement: Yes

Teacher: Mr. Foertsch

Course Description: Biology starts off with learning about the scientific method, then learning about chemistry of living things, cells, cell transport, mitosis and meiosis, genetics, evolution, ecology, human anatomy, bacteria, simple organisms, invertebrates, and finishes with learning about plants and animals.

Class: Chemistry

Length/Credits: Full year- 2 semesters (1 credit)

Offered: Even Years - Ex. 2020-2021, 2022-2023, 2024-2025, etc.

Offered to: 11th -12th grade

Graduation Requirement: it is one option to fulfill your 3rd Science credit

Prerequisites: none

Teacher: Mr. Tiffany

Course Description: Chemistry is a class designed to teach foundational chemistry skills and concepts primarily in preparation for a college chemistry course. Many college students take some sort of chemistry class. Even those students who don't plan to take a college chemistry course will benefit from a greater understanding of chemistry in our daily lives and from the challenge of a difficult class.

Class: Physics

Length/Credits: Full year- 2 semesters (1 credit)

Offered: Odd Years - Ex. 2019-2020, 2021-2022, 2023-2024, etc

Offered to: 11th and 12th grade

Graduation Requirement: it is one option to fulfill your 3rd Science credit

Prerequisites: none

Teacher: Mr. Tiffany

Course Description: Physics is a class designed to teach foundational physics skills and concepts primarily in preparation for a college physics course. Those students who don't take a physics course in college will benefit from a greater understanding of physics in our daily lives and from the challenge of a difficult class.

Class: Forensic Science

Length/Credits: 1 semester (.5 credit)

Offered to: 10th -12th grade

Graduation Requirement: it is one option to fulfill your 3rd Science credit (but must be taken with Human Anatomy)

Prerequisites: none

Teacher: Mr. Ross

Course Description: This class is an introductory course in Forensic science. Its primary focus is on practicing forensic science and analyzing physical evidence found at crime scenes. The main objective is to teach the basic processes and principles of scientific thinking so as to apply them to solving problems that are related not only to science but to all disciplines.

Class: Human Anatomy

Length/Credits: 1 semester (.5 credit)

Offered to: 10th -12th grade

Graduation Requirement: it is one option to fulfill your 3rd Science credit (but must be taken with Forensic Science)

Prerequisites: none

Teacher: Mr. Ross

Course Description: Human anatomy is a high school level, lab course that provides a thorough introduction muscle and bone as well as human gross anatomy (study of organs and organ systems), with an emphasis on laboratory study. The emphasis here is to provide you with an introduction to the human body for those that would like to pursue a health related field.

SOCIAL STUDIES

Class: Civics

Length/Credits: Full year- 2 semesters (1 credit)

Offered to: 9th grade

Graduation Requirement: Yes

Prerequisites: 7th and 8th grade social studies

Teacher: Ms. Clauson

Course Description: In Civics we explore the complex world of politics. We look at the beginning stages of how our government was developed to how it functions today. We will cover such topics as our federal Constitution, political parties and government policy and involvement in various areas of our lives. We will also discuss how our leaders can be influenced by us, the voter!

Class: US History

Length/Credits: Full year- 2 semesters (1 credit)

Offered to: 10th grade

Graduation Requirement: Yes

Prerequisites: 7th-9th grade social studies

Teacher: Mr. Olson

Course Description: Topics covered will include a review of the Civil War, westward expansion, World War I, the Great Depression, the New Deal, and the Vietnam War.

Class: World History

Length/Credits: Full year- 2 semesters (1 credit)

Offered to: 11th – 12th grade

Graduation Requirement: Yes

Prerequisites: 7th-10th grade social studies

Teacher: Mrs. Wallace and Mr. Olson

Course Description: Topics covered will include pre-history, ancient civilizations, ancient Greece and Rome, the Renaissance, and World War II.

Class: World Geography

Length/Credits: 1 semester (.5 credit)

Offered to: 11th – 12th grade

Graduation Requirement: Yes

Prerequisites: 7th-10th grade social studies

Teacher: Mrs. Wallace

Course Description: In Geography we take a more thorough look at the world in which we live. We study countries, bodies of water, and learn about the cultural landscape that makes our world so interesting. We ask you to look at the world through different lenses and analyze the cultures from various viewpoints. Lastly, we understand that there is so much more to your life than Underwood, Minnesota.

Class: Modern U.S. History

Length/Credits: 1 semester (.5 credit)

Offered to: 11th and 12 grade

Graduation Requirement: No

Prerequisites: none

Teacher: Mrs. Wallace

Course Description: This course will explore the themes of History that were not studied in earlier courses. Plan to study the Cold War, JFK, Civil Rights Movement, all the way into the 21st century. Also, we will discuss where we currently sit in the world's cultural landscape and what is in the hearts and on the minds of American citizens.

Class: Psychology

Length/Credits: 1 semester (.5 credit)

Offered to: 11th and 12 grade

Graduation Requirement: No

Prerequisites: none

Teacher: Mrs. Wallace

Course Description: In Psychology students will answer questions such as, "Have you ever wondered why people act differently than others? Have you ever thought, "what was that dream all about?" In Psychology we learn about these things and so much more! Students begin to explore psychological theories and psychologists like Sigmund Freud who have been instrumental in the field. We also learn about sensation, the complexities of the human mind, memory, and what motivates people to act with certain behaviors.

WORLD LANGUAGE

Class: Spanish I

Length/Credits: Full year- 2 semesters (1 credit)

Offered to: 9-12th grade

Graduation Requirements: No - Most universities and some colleges require 1- 2 yrs. of a consecutive foreign language. Some private colleges are recommending 3 years and Ivy League Institutions strongly recommend 4 years.

Prerequisites: None

Course Description: Students will be exposed to an introduction of the Spanish language, learning basic survival skills, covering the topics of time, weather, sports, activities, foods, how to order foods, clothing, verbs, reflexive verbs, directions, body parts, professions, household nouns, use of adjectives, adverbs, nouns, verb conjugations, stem changing verbs etc. Use of Total Personal Response in Storytelling, Hispanic music are implemented along with other complementary materials to aid in the acquisition of the Spanish language. Spanish 1 students are given the opportunity to participate in a Cultural Collaborative project (meeting twice a year with three other schools). Opportunities to travel every 3 years with current or former students will be available to Spanish students.

These opportunities enhance learning that has occurred in the classroom and further exposure to the Hispanic culture that are lifelong lessons of diversity and understanding of the customs through music, food, mode of dress and celebrations that students will experience first hand.

Class: Spanish II

Length/Credits: Full year- 2 semesters (1 credit)

Offered to: 10-12th grade

Graduation Requirements: No - Most universities and some colleges require 1- 2 yrs. of a consecutive foreign language. Some private colleges are recommending 3 years and Ivy League Institutions strongly recommend 4 years.

Prerequisites: Spanish I

Course Description: Students will continue with the knowledge of Spanish I to add to their expertise of the Spanish language in the same areas with added knowledge of word usage, verb conjugations including the past, future and compound verbs in their journey to learn, comprehend, and communicate. The same instructive tools will be implemented to aid in understanding of the Spanish Language. Spanish 2 students also get to participate in the Cultural Collaborative. 2 events throughout the year: One event is going to a Bilingual play. There are opportunities to travel every 3 years with the Spanish Classes with former or current students to Spanish speaking countries. These opportunities enhance learning that has occurred in the classroom and further exposure to the Hispanic culture that are lifelong lessons of diversity and understanding of the customs through music, food, mode of dress, and celebrations that students will experience first hand.

Class: Spanish III

Length/Credits: Full year – 2 semesters (1credit)

Offered to: 11-12th grade

Graduation Requirements: No - Most universities and some colleges require 1-2 yrs. of a consecutive foreign language. Some private colleges are recommending 3 years and Ivy League Institutions strongly recommend 4 years.

Prerequisites: Spanish I & II

Course Description: Students will continue with the knowledge of Spanish II to add to their expertise. Students will continue working on all tenses(past, present & future) as well as ‘fine tuning’ conversational skills. The same instructive tools will be implemented to aid in understanding of the Spanish Language. At this level, students are able to partake in several projects/assignments where they can work on their own using language skills previously learned. Students work more independently as they are able to communicate quite comfortably in their second language. **Hopefully students taking this new course will be able to partake in the Cultural Collaborative too. There are opportunities to travel every 3 years with the Spanish Classes with former or current students to Spanish speaking countries. These opportunities enhance learning that has occurred in the classroom and further exposure to the Hispanic culture that are lifelong lessons of diversity and understanding of the customs through music, food, mode of dress, and celebrations that students will experience first hand.

Note: This course is offered when there is enough interest based on preregistration surveys.

UNDERWOOD HIGH SCHOOL



ONLINE COLLEGE OFFERINGS

2019-2020

ONLINE COLLEGE CLASS OFFERINGS

TO BE ELIGIBLE FOR ONLINE CLASSES YOU MUST:

- Meet the minimum **GPA** requirements:
 - 3.2 for Juniors
 - 2.8 for Seniors
- Pass the **Accuplacer**:
 - Reading – 250
 - Math - 250 (for most courses)

TYPES OF CLASSES:

- Career and Technical Courses
 - These courses are directed toward a specific career field or cluster. Take these courses if they apply to the career you are interested in pursuing.
- Minnesota Transfer Curriculum Courses
 - These courses are general education courses that can be transferred to any college within the MNSCU system. Take these courses to earn college credit to meet general education requirements at the college you plan to attend and/or to cover high school graduation requirements you have not met yet.

PARTICIPATING COLLEGES

- M*State – Fergus Falls
- Alexandria Technical and Community College
- Northland Technical and Community College
- Northwest Technical College

MState Online Courses - Fall 2019

Career and Technical Courses:

- ACCT 1101 - Payroll Accounting

General Education/MnTC Courses:

- ANTH 1100 - Introduction to Anthropology, Areas 5 and 8
- BIOL 2260 - Human Anatomy and Physiology I and BIOL 2261 Lab, Area 3
- CHEM 1100 - Fundamental Concepts of Chemistry, Areas 2 and 3
- COMM 1120 - Introduction to Public Speaking (Allowed for seniors only), Area 1
- COMM 1140 - Interpersonal Communication, Area 1
- PSYC 1200 - General Psychology, Areas 5 and 9
- SOC 1111 - Introduction to Sociology, Areas 2, 5, and 7
- SOC 1113 - Social Problems, Areas 5 and 9

MState Online Courses - Spring 2019

(These were offered in spring 2019, official courses will be released in October 2019.)

Career and Technical Courses










- [ACCT 1012 - Principles of Bookkeeping](#)
- [ACCT 1124 - Spreadsheet Applications](#)
- [CRJU 1101 - Intro to Criminal Justice](#)
- [HLTH 1116 - Medical Terminology](#)

General Education/MnTC Courses

- [BIOL 1104 - Human Concerns](#), Areas 2 and 3
- [BIOL 2260 - Anatomy and Physiology I](#), Area 3
- [BIOL 2262 - Anatomy and Physiology II](#), Area 3
- [BIOL 2202 - Principles of Nutrition](#), Areas 2 and 3
- [CHEM 1100 - Fundamental Concepts of Chemistry](#), Areas 2 and 3
- [COMM 1140 - Interpersonal Communications](#), Area 1
- [COMM 1120 - Public Speaking](#), Area 1
- [GEOG 1110 - World Geography](#), Areas 5 and 8
- [HIST 1112 - Western Civilization 1600-1800](#), Areas 5 and 8
- [HIST 2212 - American History - 20th Century](#), Areas 5 and 7
- [MUSC 1118 - Rock and Pop Music](#), Area 6
- [PHYS 1105 - Fundamental Concepts of Physics](#), Area 3
- [POLS 1130 - State and Local Government](#), Areas 5 and 9
- [PSYC 1200 - General Psychology](#), Areas 5 and 9
- [PSYC 2220 - Abnormal Psychology](#), Area 5
- [PSYC 2222 - Lifespan Development](#), Areas 5 and 9
- [SOC 1111 - Introduction to Sociology](#), Areas 2, 5, and 7
- [SOC 1113 - Social Problems](#), Areas 5 and 9











Online College in the High School (OCHS)





Fall 2020 Career and Technical Education

Subject	Number	Title	Credits	College
ACCT	2201	Accounting I: Financial Accounting	4	
AGRG	1100	Intro to Agriculture	3	
BUS	2220	Principles of Management	3	
CHCA	1220	Child Safety Health and Nutrition	4	
CMAE	1528	360 Career Success Skills	1	
HLTH	1101	Intro to Health Professions	3	
HLTH	1106	Medical Terminology	2	
ITEC	1430	Introduction to Computers	3	
LENF	1629	Diversity Comm Policing/Victimizatization	4	











(**) 360 Technical Math and Safety Awareness, taken together and split during the semester.

Fall 2020 Minnesota Transfer Curriculum











Subject	Number	Title	Credits	College	Goal Area
ANTH	1110	Cultural Anthropology	3		2,5
BIOL	2252	Anatomy & Physiology I (*)	3		3,10
COMM	1415	Public Speaking (Allowed for Seniors only)	3		1
ENGL	1126	Introduction to Literature	3		6
GEOG	1470	World Regional Geography	3		8
HIST	1422	World History to 1500	3		5,8
PHIL	1405	Introduction to Philosophy	3		6,8
PHIL	1445	Ethics	3		6,9
PHIL	2210	Bioethical Issues in Contemporary Society	3		6,9
PHYS	1111	General Physic I	4		3








PLSC	1102	American Government & Politics	3		5,9
PSYC	1445	General Psychology	3		5
SOCS	1400	Introduction to Sociology	3		5,8
SPCH	1103	Interpersonal Communications	3		1,2

Spring 2021 Career and Technical Education

Subject	Number	Title	Credits	College
ACCT	2203	Accounting II - Managerial Accounting	4	
CHCA	1201	Intro to Early Childhood Education	4	
CMAE	1518	360 Manufacturing Processes & Production	2	
CMAE	1522	Quality Practices	2	
CPTR	1136	Networking 1	4	
CPTR	1138	Information Systems	3	
CRJU	1104	Juvenile Justice/Delinquency	3	
HLTH	1106	Medical Terminology	2	
ITEC	1430	Introduction to Computers	3	
MEDR	1618	Computer Assisted Drafting 3D (laptop provided)	3	

Spring 2021 Minnesota Transfer Curriculum

Subject	Number	Title	Credits	College	Goal Area
BIOL	1101	Concepts of Biology	3		3,10
BIOL	2130	Principles of Nutrition	3		3
BIOL	2221	Microbiology	3		3
BIOL	2254	Anatomy & Physiology II (*)	3		3,10
BIOL	2256	Advanced Anatomy & Physiology (*)	2		3
COMM	1485	Social Media Communications	3		1,9
ENGL	1126	Introduction to Literature	3		6
ENGL	1485	Introduction to Film Studies	3		1,9
GEOG	1470	World Regional Geography	3		8
HIST	1422	World History 1500 to Present	3		5,8

MUSC	2203	World Music	3		6,8
PHYS	1112	General Physics II	4		3
PSYC	1405	Life Span Psychology	3		5
PSYC	1410	Abnormal Psychology	3		5
SOCS	1402	Social Problems	3		5,7
SPAN	1101	Beginning Spanish I	4		8
SPCH	1410	Public Speaking (Allowed for Seniors only)	3		1