

GILMANTON HIGH SCHOOL

COURSE DESCRIPTIONS 2023-2024

ART DEPARTMENT

½ Credit in Art (choice) Required for Graduation

ART 1 Trimester, 1/2 credit

- Elective
- Recommended that 9th grade take Drawing I

The classes offered in Art provide students with a variety of experiences in many artistic techniques and media. Using the elements of art and the principles of design, students will develop creative problem solving skills.

Students may select one area of study each Trimester for ½ credit. For those with little or no experience, it is suggested to begin with Drawing I. In any given area, level I must be completed (or competency demonstrated) before a student enrolls in level II.

Experimental Art

Individual and/or group projects will be designed & created with materials and techniques that are not commonly used in the individual classes. “Thinking outside the box” & exploring the Science of Art are two of the skills that will be developed. Prerequisite: Drawing I

American Indian Art I

This course will explore and study the culture, history, and arts of North American Indian tribes. Project studies may include mandelas and medicine wheels, sand painting, weaving, beadwork, sculpture basketry, dream catchers, jewelry, and pottery.

Ceramics I

Basic hand-built techniques are used to create a wide variety of functional and nonfunctional pottery. Various decorating and glazing techniques are also developed.

Commercial Design

Art-related careers are explored through the study of commercial art, cartooning, lettering, illustration, fashion and/or automotive design.

Drawing I

Basic drawing techniques and the student's individual styles are developed through the use of lead, pen and ink, scratch board and assorted colored media.

Drawing II

An advanced study of colored and black & white media which continues skill and style development. Media explored includes charcoal, pastel, colored ink, prismacolor pencil, colored scratchboard, mixed media, and/or computer graphics.

Fibers

On and off loom weaving techniques, textile surface design, stitchery, and/or soft sculpture are explored through the use of natural and man-made fibers.

Graphics I

A printmaking class which includes basic stencil, block printing, and solar printing processes.

Painting I

Involves the development of color theory and assorted brush application techniques as well as the exploration of different painting styles. Media used is acrylic and fabric paints.

Painting II

A continued study of painting styles and techniques using watercolor, acrylic, fabric paint, glass stain, and computer graphics.

Sculpture I

Three-dimensional art is explored through the use of additive and subtractive sculpting techniques. Materials used may include wood, metal, plaster, wire, paper, synthetic jewelry materials, and found objects.

Sculpture II

Advanced sculpting techniques are to construct larger, more complicated pieces, which include the student's choice of materials, soft sculpture, and/or inflatable sculpture.

Independent Art

Prerequisite: junior or senior with 3 or more Trimesters of high school art experience. Students design their own projects from a list of media and ideas supplied by the instructor. Can be repeated with permission by the instructor.

Advanced Placement Art

See the School Counselor for more information on Advanced Placement Courses.

BUSINESS EDUCATION DEPARTMENT

½ Credit in Personal Finance Required for Graduation

PERSONAL FINANCE 1 Trimester, 1/2 credit, 2.0 CVTC credits

- Required for graduation
- Open to grades 11 - 12
- Transcribed with CVTC course number 101-134 (Personal Financial Planning)

Students need financial knowledge to ensure they make the best financial decisions. Whether it is completing transactions for daily use or analyzing investments for their future, students must understand how to use resources to develop economic growth. Topics will include pay and benefits, banking activities, investments, budgeting, credit, taxes, consumer rights, retirement, and insurance.

NEW! RETAIL MERCHANDISING 1 or 2 Trimesters, ½ credit each trimester

- Elective
- Open to grades 11-12; or to 10th grade who have successfully completed Intro to Business, Multimedia, or Microsoft Office.

This course revolves around operating a school-based enterprise. Students are given hands-on opportunities to learn about business through managing a school store and making vital business decisions that impact profits.

Topics covered include: product planning, promotions, sales, apparel & accessories production, market research, and visual merchandising. This lab-based course requires students to work in the school store and occasionally after school, at sporting events, and during other school functions.

BUSINESS MATH 2 Trimesters, 1 credit

- Elective
- Open to grades 11-12
- Offered every year

Business Math is a full year course in which students learn to use mathematics effectively as a tool in their personal and business lives. The math concepts that will be learned in this course will be helpful in students' future careers and will be practical in life, as well. This course may be used to meet the mathematics requirements for graduation. Business Math is open to all seniors and to juniors with Math teacher approval/recommendation.

DESKTOP PUBLISHING I & II 1 Trimester, 1/2 credit

- Elective
- Open to grades 10-12
- Offered every year

Desktop Publishing will acquaint students with graphic techniques, principles of page design, and desktop publishing applications. Students will use publishing software to create a variety of documents. Scanning software and digital cameras will be used. Students will also be responsible, under the supervision of a student editor and co-editor, for producing the high school yearbook.

INTRO TO ACCOUNTING-TC 2 Trimesters, 1 credit, 3 CVTC credits

- Elective
- Open to all 10-12th grade students
- Offered every year
- Transcribed with CVTC Introduction to Accounting

This elective course will provide an understanding of the basic elements and concepts of double-entry accounting systems, including the following: the accounting equation, the accounting cycle, entering transactions in journals, posting to ledgers, end-of-period statements and reports, payroll systems, banking activities, taxes, uncollectible accounts, depreciation, calculating payroll, preparation of balance sheets, and income statements for both sole proprietorships and corporations.

INTRODUCTION TO BUSINESS 1 Trimester, 1/2 credit

- Elective
- Open to grades 9-12
- Offered 2023-24

To be a productive citizen in today's society, students must understand the role and function of business in the world's economy. This introductory course will give students basic knowledge both FOR and ABOUT business. They will learn about the main facets of business and will gain a solid foundation for further business courses. Through a variety of activities, students will become better prepared to deal with and become part of the business world. Topics include: free enterprise system, economics, entrepreneurship, marketing, and business etiquette.

INTRO TO MARKETING 1 Trimester, 1/2 credit

- Elective
- Open to grades 9-12
- Offered 2023-24

Introduction to Marketing will equip students with basic marketing knowledge. Students will gain an understanding of the importance of marketing in today's society. They will develop skills related to interpersonal communication, self-presentation, economics, marketing, and sales. Real-life applications, technology, simulations, and case studies will be incorporated into the classroom curriculum.

MICROSOFT OFFICE-TC 1 Trimester, 1/2 credit; 2.0 CVTC credits

- Elective; limited to 13 students
- Open to grades 9-12
- Offered 2023-24
- Transcribed with CVTC course number 101-132 (Microsoft Office Suite).

Microsoft Office is designed for students who have an interest in the business technology field.

The goal of this course is for students to apply computer skills and integrate the use of the Microsoft Office Suite into academic and business environments. Students will participate in various common tasks that use Microsoft Word, Excel, PowerPoint, and Outlook while using One Drive cloud storage.

MULTIMEDIA 1 Trimester, 1/2 credit

- Elective
- Open to grades 9-12
- Offered 2023-24

Multimedia is the use of several different methods (media) to convey information (text, audio, graphics, and video). Students in Multimedia class will present information in various digital formats: print media (Microsoft Publisher); website creation (Google Sites); audio editing (Audacity); video production (Adobe Premiere); and graphic editing (Adobe Photoshop).

BUSINESS AND PERSONAL LAW 1 Trimester, 1/2 credit

- Elective
- Open to grades 10-12
- Will be offered in 2024-25

This course will explore our legal system and how it relates to business, civil, and criminal law. Students will learn how the law affects their lives on a more personal basis. Students will study real-life court cases to help understand an individual's rights and remedies. Areas of study include: criminal law, torts, sources of law, the court system, and contracts.

HEALTH EDUCATION DEPARTMENT

½ Credit in Health Required for Graduation is awarded in 7th & 8th grade

HEALTH 7 1 Trimester

General Middle School Health with an emphasis on hygiene, self-care, diet/nutrition and fitness. This course continues in grade 8.

HEALTH 8 1 Trimester, 1/2 high school credit

Satisfactory completion of this course satisfies the High School Health requirement. Class will continue emphasis from the 7th grade curriculum and add: mental/emotional health, peer relationships, body systems, sexual reproduction and the life cycle.

ENGLISH/LANGUAGE ARTS DEPARTMENT

4.0 Credits in English Required for Graduation

ENGLISH 9/10 2 Trimesters, 1 credit

- Required - grade 9 AND grade 10
- Alternating Curriculum Per Year

Class will progress through three relevant historical and contemporary knowledge-building units with a strong focus on reading comprehension and effective written communication. Students will create high-quality work that shares their expert-level independent learning.

Students will build on their foundations of reading comprehension and written communication while developing themselves as deliberate readers and writers of the written language. They will also explore the various aims and audiences an author may create for. Additional topics of study will include: standard English grammar, vocabulary, plagiarism and how to avoid it, effective study skills, note-taking, speaking and listening, etc.

Units include (from 22-23; for 24-25):

- Literacy Lab: Students will develop the academic routines of successful readers and writers with a literacy unit that builds on their interests and abilities. The class will discover a current dystopian novel for our core text.
- Informational Research Lab: Students will study an energy-related science topic while becoming experts in reading and writing informational text.
- Writing Stretch: Students will develop narrative writing strategies and develop standard English grammar expectations of compound sentences.
- Literature Genre Lab: Students will study literary elements in the Modern American Historical Fiction genre while constructing narratives in that same genre. The class will explore an historical fiction text from this time period.

Units include (for 23-24, 25-26, etc.):

- Literacy Lab: Students will develop the academic routines of successful readers and writers with a literacy unit that builds on their interests and abilities.
- Argument Research Lab: Students will study an environmental studies science/social studies-related topic while constructing arguments using their own research.
- Writing Stretch: Students will develop narrative writing strategies and develop standard English grammar expectations of compound sentences.
- Informational Research Lab: Students will study a sports and society-related social studies topic while becoming experts in reading and writing informational text. The class will explore Ernest Hemingway's *The Old Man and the Sea*.

ENGLISH 11/12 2 Trimesters, 1 credit

- Required - grade 11 AND grade 12
- Alternating Curriculum Per Year

Class will progress through three relevant historical and contemporary knowledge-building units with a strong focus on reading comprehension and effective written communication. Students will create high-quality work that shares their expert-level independent learning.

Students will build on their foundations of reading comprehension and written communication while developing themselves as deliberate readers and writers of the written language. They will also explore the various aims and audiences an author may create for, as well as examine the author's style, techniques, and intentions of their texts.

Additional topics of study will include: standard English grammar, vocabulary, plagiarism and how to avoid it, effective study skills, note-taking, speaking and listening, etc.

Units include (from 22-23; for 24-25):

- Literacy Lab: Students will develop the academic routines of successful readers and writers with a literacy unit that builds on their interests and abilities. The class will discover a current science fiction core text.
- Literature Genre Lab: Students will study literary elements in the memoir genre while constructing narratives in that same genre. The class will explore Elie Wiesel's *Night* as a core text.
- Writing Stretch: Students will develop narrative writing strategies and develop standard English grammar expectations of compound sentences.
- Argument Research Lab: Students will study a contemporary issue topic while becoming experts in reading and writing informational text.

Units include (for 23-24, 25-26, etc.):

- Literacy Lab: Students will develop the academic routines of successful readers and writers with a literacy unit that builds on their interests and abilities. Students will explore a core text.
- Argument Research Lab: Students will study an **economics-related** science/social studies topic while becoming experts in reading and writing informational text.
- Writing Stretch: Students will develop narrative writing strategies and develop standard English grammar expectations of compound sentences.
- Literature Genre Lab: Students will study literary elements in the African American Literature Genre

MATHEMATICS DEPARTMENT

3 Credits in Mathematics Required for Graduation
(Algebra I, Geometry, & Algebra II)

ALGEBRA 1 2 trimesters, 1 credit

- Required grade 9

This course deepens the study of linear functions with focus on linear equations, inequalities, and systems of equations. This includes developing regression equations to model linear and non-linear data. Students will extend these skills to writing exponential functions, and solving quadratic equations. Graphs, tables, equations, and symbolic reasoning are used to solve and understand all algebraic concepts.

GEOMETRY 2 trimesters, 1 credit

- Required grade 10
- Prerequisite: Algebra I

This course covers plane and solid geometry. Students will study triangles, polygons, circles, similarity, congruence, and probability. There will be an emphasis on logical reasoning through proof writing. Students will also work with perimeter, area, surface area and volume of solids, coordinate geometry, and transformations. Applications of algebraic concepts will be integrated with emphasis on critical thinking and communicating.

ALGEBRA 2 2 trimesters, 1 credit

- Either Algebra 2 or Technical Math is Required for Grade 11 (teacher &/or counselor recommendation)
- Prerequisite: Algebra I and Geometry
 - Note: Can be taken concurrently with Geometry with special permission by the Math Department, providing it works in your schedule.

This course covers several families of functions (linear, quadratic, cubic, exponential, absolute value, inverse, square root, and polynomial) - including graphing and transforming. It also includes polynomial expressions, logarithms, exponential functions, trigonometry, statistics, and probability.

NEW! MATH FOR TECHNICAL TRADES 2 trimesters, 1 credit, 2.0 CVTC credits

- Either Algebra 2 or Technical Math is Required for Grade 11 (teacher &/or counselor recommendation)
- Open to grades 11-12
- Offered every year
- Transcribed with CVTC Math for Technical Trades

Math for Technical Trades is an applied technical math course. The course includes arithmetic, measurement calculation, formula manipulation, basic geometry, right triangle trigonometry, and interpretation of visual displays of data, with an emphasis on contextualized technical applications.

PRE-CALCULUS 2 trimesters, 1 credit, Honors

- Elective
- Open to grades 11 & 12
- Prerequisite: Algebra I, II, and Geometry with C- or higher grade average in all three classes; or special permission by the Math Department

An elective class recommended for students planning on attending college and many technical college programs. Students work with advanced algebra, an in depth study of trigonometry, functions and inverses, sequences, and series. Elementary calculus topics are explored such as the area under a curve and rates of change.

Advanced Placement Calculus

Advanced Placement Statistics – See the School Counselor for more information on Advanced Placement Courses.

MISCELLANEOUS COURSES

Electives

TUTORING OR TEACHER'S ASSISTANT 1 Trimester, 1/2 credit

- Elective
- Open to grades 11 – 12

Limited space available, priority will be given to students interested in pursuing an education-related field. Must have good attendance and demonstrate the ability to work independently. The numbers allowed into this course will be based on the needs of the high school and elementary staff. The student works closely with a teacher and tutors high school, middle school, or elementary children in a variety of areas. Students must have the approval of the School Counselor and principal to take this course.

Students in the tutoring program contract for the grade they want to receive and must meet the requirements of the program to receive that grade. Teacher's Assistant is graded pass/fail.

WORK STUDY 1 Trimester, 1/2 credit, 3.0 credits maximum

- Elective
- Open to grades 11 - 12

Work Study can be taken as a trimester or year long if desired. Students must have a job and approval of the principal and School Counselor to assure students will meet required graduation credits. The student's employer must be willing to enter into an agreement with the school to be a participating work site. Students will take the

required academic classes at the time they are offered – no independent study is permitted for required classes. No schedule adjustments for work experience time. No more than 3 credits per high school career can be earned.

Students who choose to take Work Study need to meet all of the criteria spelled out by the instructor. A grade is given according to the criteria and the grade counts toward the student's grade point average (up to ½ credit per Trimester, 1.5 credits per year).

MUSIC DEPARTMENT

Electives

CONCERT BAND Full year, 1.5 credit

- Elective

Arrangements must be made to obtain an instrument to perform with. Some school-owned instruments may be available. Band is a performance organization which learns about and rehearses music from all music periods. The band performs at several concerts and provides music for sporting events. The band is required to perform at the graduation ceremony. Any scheduling conflicts can be worked out with the band director and school counselor.

JAZZ BAND 1 Trimester, 1/2 credit

- Elective
- Prior instrument experience preferred

Jazz Band emphasizes instruction in techniques of jazz instrument playing. These include skills in tone, intonation, rhythm, tempo, dynamics, articulation, harmony, phrasing, style, and improvisation. Students will also experience a variety of music activities through participation, performance, creation, interpretation, and evaluation. Jazz Band is an extension of Concert Band and Pep Band. Prior instrument experience is preferred.

PERCUSSION ENSEMBLE 1 Trimester, 1/2 credit

- Elective
- Prior band experience preferred

Percussion Ensemble emphasizes instruction in techniques of percussion playing. These include skills in bass, snare, tomtom, timpani and mallet instruments. Students will also experience a variety of music activities through participation, performance, creation, interpretation, and evaluation. Percussion Ensemble is an extension of Concert Band and Pep Band. Prior instrument experience is preferred.

CHOIR Full year, 1/2 credit

- Elective

Choir is a performance organization which rehearses a wide variety of music from various time periods. The choir performs at two to three concerts each year. Students will be required to perform at the graduation ceremony. Any scheduling conflicts can be worked out with the choir director and school counselor.

COLORGUARD 1 Trimester, 1/2 credit if taken in high school

- Elective

The Color Guard class is designed to provide students with an outlet for musical expression and performance through mostly flag, rifle, saber and some dance. Students will learn the fundamentals of colorguard and be able to put a routine together. All members of the class must participate in performances that may arise during the year.

ADVANCED PLACEMENT MUSIC – See the School Counselor for more information on Advanced Placement Courses.

PHYSICAL EDUCATION DEPARTMENT

1½ Credits in Physical Education Required for Graduation
(Generally taken in grades 9, 10, and 11)

Physical Education 1 Trimester, 1/2 credit

- 3 Trimesters (1.5 credits) required at any time during grades 9 - 11

Physical activity is a vital part of every person's life. Students are offered the opportunity to learn and to develop skills in many aspects of team activity as well as the life-long individual and dual sports. Self-control, self-discipline, and cooperation are also vital elements to be learned in physical education.

SCIENCE DEPARTMENT

3.0 Credits in Science Required for Graduation
(Physical Science, Biology, plus 1.0 Credit Elective)

PHYSICAL SCIENCE 2 Trimesters, 1 credit

- Required for grade 9

This is an introductory course that covers various types of physical sciences for freshmen. Subjects covered include introductory chemistry and physics. Emphasis is placed on understanding the atom and atomic structure, defining the different types of matter, describing motion and energy, and understanding machines. This course also concentrates on developing skills in critical thinking through the scientific method, skills in observations and basic laboratory procedures.

BIOLOGY 2 Trimesters, 1 credit

- Required for grade 10

Biology is the study of living things. Some of the areas studied in this course include: the basic characteristics of all living organisms; plant and animal systems, cell biology, molecular genetics & heredity. Lab work, lecture, writing assignments and projects will be emphasized.

CHEMISTRY 2 Trimesters, 1 credit

- Elective
- Open to grades 11-12
- Offered every year
- Recommended: Algebra II or currently enrolled

Chemistry is the study of matter. Topics will include the composition of matter, scientific measurement, the periodic table, naming chemical compounds, chemical reactions, the Mole, stoichiometry, gasses, solutions, and Acids Bases. The class will consist primarily of lab work, lecture, and problem solving exercises. All students pursuing technical studies or college level studies in a science related field should take this course. This is an honors level course, more rigorous than other science electives.

ANATOMY AND PHYSIOLOGY 1 Trimester, ½ credit

- Elective
- Open to 11th - 12th grade students
- Offered 2023-24
- Prerequisite: Biology

Anatomy is the study of the structure and function of the human body. The various systems of the body will be explored. This course is especially recommended for all those interested in careers in health and physical education. This course is more rigorous than some of the other science electives.

BOTANY 1 Trimester, 1/2 credit

- Prerequisite – 1st Trimester Biology
- Elective
- Offered 2023-24
- Open to 10th - 12th grade students

Botany is the study of plants. This course will explore the physiology, taxonomy, and propagation of plants. We will also look at the economic importance of plants. Class will include lecture, lab work, greenhouse work, outdoor labs, and writing projects.

ECOLOGY 1 Trimester, 1/2 credit

- Elective
- Offered 2023-24
- Open to 11th - 12th grade students
- Prerequisite: Biology

Ecology is the study of the natural environment. Living and non-living aspects of nature will be explored as well as the interactions that occur between them. Topics include: water, air and soil quality; endangered species and natural resources. Environmental concerns globally, nationally and locally will be explored and discussed. Class will include lecture/discussions, labs (both indoor and outdoor) and research projects.

OCEANOGRAPHY, METEOROLOGY, AND ASTRONOMY 1 Trimester, ½ credit

- Elective
- Open to 10th – 12th grade students
- Offered 2023-24

This class will focus on the earth's oceans, the atmosphere and the field of astronomy. Topics discussed will include the ecosystems that are found in the oceans, weather patterns and climate, as well as our solar system and other objects found in space will be explored. Projects, lectures and labs will be required.

EARTH SCIENCE 1 Trimester, 1/2 credit

- Elective
- Open to 9-12th grade students
- Offered 2022-23 (every other year)

This class will focus on the solid structure of the earth and the forces that create changes. Rocks, minerals, erosion, earthquakes and volcanoes will be some of the topics discussed. Environmental issues will also be explored. Projects, lectures and labs will be required.

FORENSIC SCIENCE 1 Trimester, ½ credit

- Elective
- Open to 11th - 12th grade students
- Offered 2022-23 (every other year)
- Prerequisite: Biology

This introductory Forensic Science course offers the students an opportunity to explore the basics of how and why forensic science is used today around the world. Students will be able to develop their investigative skills and review a wide range of science concepts. This course will teach the students about the different types of evidence used and how the evidence is analyzed to draw conclusions. Students will review physics, chemistry, anatomy and physiology, biology, and environmental science in the process of learning about forensic science.

PHYSICS 2 Trimesters, 1 credit

- Elective
- Prerequisite: minimum of B average* in Geometry and C average* in Algebra I
- Not currently offered

Physics is the study of the interaction between energy and matter. This course is intended to appeal to a wide range of students. This course will cover many of the major topics in physics including: mechanics, force, sound and light, and electricity and magnetism. Lab work, lecture, problem solving, and projects will be emphasized. Physics is a preparatory step for students who intend furthering studies in science and technology. All engineering and college science majors should take this course. This is an honors level course, more rigorous than other science electives.

* Exceptions to prerequisite upon approval by Science and Math instructors.

ZOOLOGY 1 Trimester, 1/2 credit

- Elective
- Open to all 11 -12th grade students
- Prerequisite: Biology
- Not currently offered

Zoology is the study of the diversity of the animal kingdom. Specifically we will explore the different types (phyla) including sponges, cnidarians (jellyfish, etc.), mollusks (clams, octopus, etc.), worms, arthropods, reptiles, birds, fishes and mammals. Topics such as living environments, eating habits, anatomy and reproduction will be explored. Class will include lecture/discussion, lab (emphasis on dissections) and research projects.

ADVANCED PLACEMENT BIOLOGY

ADVANCED PLACEMENT CHEMISTRY

ADVANCED PLACEMENT ENVIRONMENTAL SCIENCE

ADVANCED PLACEMENT PHYSICS – See the School Counselor for more information on Advanced Placement Courses.

SOCIAL STUDIES DEPARTMENT

3.0 Credits in Social Studies Required for Graduation
(U.S. History, World History, Civics, ½ Credit Elective)

MODERN U.S. HISTORY 2 Trimesters, 1 credit

- Required for grade 9

This course covers the years from 1861 to present, starting with the Civil War and Reconstruction Era through modern times. The major themes covered are: the continuing development of the Constitution (court decisions and amendments), Progressive Era, Labor Movement, migration and settlement of the West, Industrial Revolution, World War I, The Great Depression, World War II, Cold War Era, Civil Rights Movement, and recent events. The students should develop an appreciation for the American people and their ability to cope with crises, and by understanding the past, be better able to cope with or avoid future crises.

WORLD HISTORY 2 Trimesters, 1 credit

- Required for grade 10

World History is a survey course with emphasis placed on the following areas: 1) ancient civilizations, specifically the Middle East, Greek, and Roman; 2) Eastern civilization, including Japan, China, and India; 3) European history involving age of enlightenment, exploration, revolution, and industrialization; 4) the modern changing world and the problems related to peaceful co-existence and the struggle for economic prosperity.

AMERICAN GOVERNMENT 1 Trimester, 1/2 credit

- Required for grade 11

American Government deals primarily with the structure and the functions of the national and state governments of the United States. This class includes the study of the following: systems of government; the Constitution and its development; how political parties, interest groups, and the electoral process affect political life; the legislative branch; the executive branch; the judicial branch; and how the state legislative, executive and judicial branches of government work with and without the national system of government. Local government organization will also be covered. This understanding of the political process will enable the student to understand and work within the framework of the American democratic system of government.

CURRENT EVENTS 1 Trimester, 1/2 credit

- Elective
- Open to grades 11 – 12; grade 10 with permission from instructor
- Offered 2023-24 (every other year)

Study of current events and issues that have been in the news in the past 5 years. Major issues will be based on current world events. Students will be able to have choices in the topics of the curriculum in many parts of this course. Course will be very hands-on and high energy.

SOCIOLOGY 1 Trimester, 1/2 credit

- Elective
- Open to grades 11 and 12; grade 10 with permission from instructor
- Offered every year

Sociology is about people; how they act, react, and interact both in their everyday lives and under extraordinary circumstances. Sociology also explores the social contexts; groups, neighborhoods, cities, even whole societies, in which thoughts, feelings, and ideas are formed.

OCCUPATIONAL RELATIONS-TC 1 Trimester, 1/2 credit, 2.0 CVTC credits

- Open to grades 11 and 12
- Transcribed credit with CVTC for certain majors-**see description below
- Students not attending CVTC can also benefit from the content learned in this class
- Offered 2022-23 (every other year)

This class will focus on teaching many of the basic skills that students today may take for granted. These interpersonal skills are often referred to as “soft skills”. As our world changes to a high paced, technologically interconnected, socially networked platform of citizens who do not spend a large amount of time working with others on a face to face basis, many basic skills are lost. We will work on interpersonal skills that will lead to not only occupational success, but also social and family connectivity by teaching listening, communication, and empathy skills. We will also focus on the importance of hard work, grit, self-motivation, responsibility and accountability, throughout. The goal is to help young people to not just get a diploma or a degree. The focus is to teach students how to become more successful in all facets of their personal and work lives.

**A bonus is that this class mirrors Occupational Relations 809-351 at Chippewa Valley Technical College. Students who are planning to attend CVTC and major in Automotive Technician, Child Care Services, Diesel/Heavy Equipment Technician, Electrical Power Distribution, or Motorcycle, Marine, and Outdoor Power Products will be able to use these credits towards their degree if they receive a “C” or above in this class.

U.S. MILITARY HISTORY 1 Trimester, 1/2 credit

- Elective
- Open to grades 11-12; grade 10 with permission from instructor
- Offered 2022-23 (every other year)

Students will have an interactive survey of the different military conflicts that the United States has been involved in since 1776. This course will allow students to interact with history in a number of different ways. The course will begin with the Revolutionary War and end with the War in Iraq “Operation Iraqi Freedom”.

WISCONSIN HISTORY 1 Trimester, 1/2 credit

- Elective
- Open to grades 11 and 12; grade 10 with permission from instructor
- Not currently offered

This course will cover the political, economic and social development of the State of Wisconsin.

ADVANCED PLACEMENT ECONOMICS

ADVANCED PLACEMENT GEOGRAPHY OR HUMAN GEOGRAPHY

ADVANCED PLACEMENT GOVERNMENT & POLITICS

ADVANCED PLACEMENT HISTORY

ADVANCED PLACEMENT PSYCHOLOGY – See the School Counselor for more information on Advanced Placement Courses.

TECHNOLOGY EDUCATION DEPARTMENT

½ Credit (choice) Required for Graduation

AG TECH & CONSTRUCTION I/II 1 Trimester, 1/2 credit

- Elective
- Offered every year
- Open to grades 9 - 12

This course introduces awareness and skills in the area of agriculture. Topics covered in this class include nutrient categories in digestive systems, energy sources, how cows make milk, mastitis, and cattle breeds. Plus, students

get hands-on experience restoring farm equipment. Ag Tech Construction II is a continuation of the first year course.

BASIC CONSTRUCTION I/II 1 Trimester, 1/2 credit

- Elective
- Open to grades 9-12

This course provides an opportunity for students to become familiar with carpentry tools. This course will cover measurement, basic construction and building individual projects. Students are required to purchase lumber to build an individual project. Basic Construction II is a continuation of the first year course, covering home construction topics. Students are required to purchase lumber to build an individual project.

BUILDING CONSTRUCTION I/II 1 Trimester, 1/2 credit

- Elective
- Open to grades 9 - 12

This course provides hands-on opportunities building framed walls and building projects in the community. Building Construction II is a continuation of the first year course.

COMMUNICATION SYSTEMS I 1 Trimester, 1/2 credit

- Elective
- Open to grades 9-12

Communication Systems is a course that is designed to give students a clear overview of communication techniques and devices important to technology. Students rotate through stations which include: photography, powerpoint software, a radio station show, computer aided design, digital manipulation of pictures on a computer, and an introduction to creating web pages, and using various computer programs.

COMMUNICATION SYSTEMS II 1 Trimester, 1/2 credit

- Elective
- Prerequisite - Communication Systems I

Communications II extends activities in digital manipulation of pictures. The course also includes creating web pages, digital video production, use of various computer programs, and extends exercises in photography.

COMPUTER-AIDED DRAFTING & DESIGN (CAD I) 1 Trimester, 1/2 credit

- Elective
- Open to grades 9 - 12

This course is designed to expose students to the fundamentals of mechanical and architectural drafting using manual and computer-aided techniques. Students will have the opportunity to use the 3d printer and use programs to design objects to print.

COMPUTER-AIDED DRAFTING & DESIGN II (CAD II) 1 Trimester, 1/2 credit

- Elective
- Prerequisite - CAD I
- Open to grades 10 - 12

This course will extend the knowledge gained in CAD I. Students will work with multi-view drawings, 3-D drawings, and draw a variety of gears, pulleys and miscellaneous items. Students will have the opportunity to use the 3d printer and use programs to design objects to print.

ELECTRICITY I 1 Trimester, 1/2 credit

- Elective
- Open to grades 9 – 12
- Offered every other year

This course is designed to allow students to diagnose and solve problems, and make various measurements with test equipment in electronics through practical applications. The course concentrates on DC circuits, Ohm's Law, and the application of basic electronic components. Students will learn basic residential wiring of switches, outlets and lights.

ELECTRICITY II 1 Trimester, 1/2 credit

- Elective
- Prerequisite - Electricity I
- Open to grades 10 – 12

This course consists of the continuation and application of Ohm's Law, working with AC circuits. Lab activities utilizing analog and digital measuring devices. Students will continue their study of electrical wiring to include breaker boxes.

ENERGY, POWER, & TRANSPORTATION 1 Trimester, 1/2 credit

- Elective
- Open to grades 9 – 12

This course includes units of energy conservation and transmission, fossil fuels, solar power, and alternative energy sources. Activities include fluid power systems, building solar collectors and working on small engines. Various modes we use to move people and goods through different environments using land, water, air and space transportation will also be studied.

INDEPENDENT TECHNOLOGY PROJECTS 1 Trimester, ½ credit

- Elective
- Open to grades 10-12

This course allows students to work independently in one concentration of the following four areas in Technology Education: woods, metals, computer-aided design (CAD), or engineering. Students will sign a contract, declare an area of concentration, and work on in-depth projects.

INTRODUCTION TO ENGINEERING 1 Trimester, 1/2 credit

- Elective
- Offered 2023-24
- Open to grades 9 – 12

Introduction to engineering is an introductory study into the different fields of engineering. Intro to engineering will build on basic problem solving skills. Activities include designing a building and the building's site plan, bridge design, and system design problems.

METALS 1 Trimester, 1/2 credit

- Elective
- Offered 2023-24
- Open to grades 9-12

This course is designed to provide understanding of how manufacturing systems work. Students will learn basic welding and torch procedures, while designing and building a project they will market and sell.

RESEARCH AND DESIGN 1 Trimester, 1/2 credit

- Elective
- Open to grades 9 – 12

The content of the course will cover the process of research and development. R & D is a key component of modern industry. The class projects will develop a student's ability to systematically identify problems, collect information, and propose and test solutions for design problems.

SMALL ENGINES 1 Trimester, 1/2 credit

- Elective
- Offered 2022-23
- Open to grades 9 – 12

This course provides students with fundamental knowledge of basic engine mechanics, including how 2-cycle and 4-cycle engines work and activities with 2-cycle and 4-cycle engines. Students will have the opportunity to bring in their own engines for maintenance and repair.

WORLD LANGUAGE DEPARTMENT

Currently Spanish, taught via distance learning, from Eleva-Strum High School

Please note - many universities either desire or require at least 2 years of a second language; if your student is only planning on taking 2 years of Spanish to fulfill the criteria for college entrance, it is strongly recommended that they wait until their **Junior and Senior years** to take Spanish I and II.

The reasoning behind this is two-fold: 1) The increased maturity should lend to greater ability to study and complete language-learning activities successfully, and 2) Many universities allow students to take a Spanish placement test - this test could allow students to skip college Spanish course(s) AND receive credit for the ones they skip, up to 16 credits, after the successful completion of the 1 course they test into.

Additionally, taking Spanish during your final years of high school will better prepare anyone attending a technical college that may need to take a "Spanish in the Workplace" or similar course. You should contact the specific university or technical school your student is interested in attending to find out more details.

If your student is interested in learning the Spanish language, they may take Spanish courses via distance learning throughout their high school years, including AP Spanish as a senior and the "Adventure in Spain & Portugal" class that culminates in a trip to Europe during spring break.

Electives

SPANISH 1 2 Trimesters, 1 credit

- Elective
- Distance Learning Course

In this class, students will build a foundation in language skills, including conversation, comprehension, cultural understanding, grammar, reading, and writing. During the year, Spanish I students will participate in drill activities, paired conversations, dialogues, and role playing, as well as actively participate in conversations and write about their daily lives, personal interests, preferences, and feelings. Writing journal entries in Spanish will be an on-going activity. Through reading and writing, students will increase their vocabulary and grammar skills, and their understanding of other cultures. Students will also participate in a variety of creative activities and projects utilizing the Spanish language.

SPANISH 2 2 Trimesters, 1 credit

- Elective
- Distance Learning Course
- Prerequisite: "C" average in Spanish I is recommended

In this language-intensive class, students will review and expand on the skills learned in Spanish I. During the year, Spanish II students will participate in drill activities, paired conversations, dialogues, and role-playing, as well as actively participate in conversations and write about a variety of themes. Writing journal entries in Spanish will be an on-going activity. Through reading and writing, students will increase their vocabulary and grammar skills, and their understanding of other cultures. Students will also participate in a variety of creative activities and projects utilizing the Spanish language.

SPANISH 3, 4 OR ADVANCED PLACEMENT SPANISH – See the School Counselor for more information.

DISTANCE LEARNING COURSES

AP CALCULUS

- Prerequisite(s): Pre-Calculus
- Credits: High School/AP Credit (1.0)
- Length: Full Year
- Open to grade 12
- Host School: TBD

This is an introductory calculus course with elementary functions. It is taught as an advanced placement class. Calculus is intended for students who have a thorough knowledge of college preparatory mathematics including algebra, formal geometry, rectangular and polar coordinates, equations and graphs, lines, and conics.

MEDICAL TERMINOLOGY (501-101)

- Prerequisite(s): None – However, students should have basic computer literacy skills and basic knowledge of Microsoft Office Suite to aid in success.
- Credits: CVTC Credit (3.0)
- Length: 1 Semester
- Open to grades 11-12

This course focuses on the component parts of medical terms: prefixes, suffixes, and word roots. Students practice formation, analysis, and reconstruction of terms. Emphasis on spelling, definition, and pronunciation. Introduction to operative, diagnostic, therapeutic, and symptomatic terminology of all body systems, as well as systemic and surgical terminology.

ENGL 101 & 202 FRESHMAN ENGLISH

- Prerequisite: Placement test must be taken (administered and scored by university) and admittance to course determined by university
- Credits: UWSP at Marshfield (3.0) or UWEC at Barron County
- Length: 2 Semesters
- Open to grade 12

Description: Critical reading, logical thinking, and effective writing. Write frequently in and out of class, using specific rhetorical strategies for a variety of purposes and audiences.

PSYCHOLOGY, INTRODUCTION TO (809-198)

- Prerequisite(s): None
- Credits: CVTC Credit (3.0)
- Length: 1 Semester
- Open to grades 11-12

This introductory course in psychology is a survey of the multiple aspects of human behavior. It involves a survey of the theoretical foundations of human functioning in such areas as learning, motivation, emotions, personality, deviance and pathology, physiological factors, and social influences. Additional topics include research methods, biological and environmental impacts, development, sensation and perception, consciousness, intelligence and stress. This course directs the student to an insightful understanding of the complexities of human relationships in personal, social, and vocational settings.

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