CHS Course Offerings 2026-2027

Applied Arts

CAD 1 (Semester) 9, 10, 11, 12

This course introduces students to Drafting, Computer-Aided-Design, and Architectural Design. You will learn concepts such as 3 view drawings, auxiliary views, dimensioning and tolerancing, surface developments, fasteners, assembly drawings, and floor plans. Students will also be introduced to 3d printing, laser engraving, and CNC router concepts. This course will also include a community or school-related projects.

CAD 2 (Semester-Repeatable) 9,10, 11, 12

Prerequisite: Intro to CAD

This course is designed for novice through advanced students who are interested in project design/build. Students will prepare by learning the functions of a design program through a blended learning environment. Once the students have a grasp of the program's functions, students will begin a project design phase. Dependent on the student's prior classes, the student will choose a project to design and create blueprints. The students will then use the blueprints to machine a project.

Digital Publishing (repeatable) 9, 10, 11, 12

Digital Publishing focuses on forms of reporting including news, features, events, sports, and editorial/opinion writing. In addition, students will develop their editing and proofreading skills by applying what they have learned to the real world via submissions to *The King's Kronicle*, Calumet High School's student newspaper. Journalism also produces the Calumet High School yearbook, *Peace Pipe.* Students learn the technical aspects of producing a yearbook including page design, layout, and picture composition/manipulation. Students receive experience in public relations during the selling of advertisement spots. This course is a full year in length.

Industrial Arts 9, 10, 11, 12

Welding & Metal Arts is an introductory course exploring a variety of welding & metal fabrication techniques within the parameters of an art form of expression, rather than an industrial trade. Technical skills used in the welding and metal fabrication studio will be introduced via instructor demonstrations followed by student practice. Significant time will be dedicated to students improving and using those skills by way of conceptualizing and creating their own artistic and/or functional projects. Students will have the opportunity to use a variety of tools and procedures to produce their metal art projects that may include oxy-acetylene cutting, freehand as-well-as computer-aided plasma cutting, MIG welding, and the use of a variety of other metal fabrication tools such as grinders, bending & forming tools, drills, and band saws.

Industrial Technology 1 9, 10, 11, 12

This course is designed to provide students with a broad understanding of opportunities in the field of manufacturing, as well as basic machining operations. Supplemental components of the course will include blueprint reading, basic and finite measurement, machine and workplace maintenance, workplace safety, and career and employability skills. In addition, students will be introduced to the design process, computer-aided design, computer-aided machining, g-code, and computerized numerical control (CNC) machining. Students will have a wide range of hands-on experience to assist them in making career choices in the ever-expanding machine tool industries. Students will work in both the woodshop and metal shop manufacturing projects.

Industrial Technology 2 10, 11, 12

This course is designed to provide students with a deeper understanding of opportunities in the field of manufacturing, as well as advanced machining operations. Supplemental components of the course will include blueprint reading, basic and finite measurement, machine and workplace maintenance, workplace safety, and career and employability skills. In addition, students will continue to work on the design process, computer-aided design, computer-aided machining, g-code, and computerized numerical control (CNC) machining. Students will have a wide range of hands-on experience to assist them in making career choices in the ever-expanding machine tool industries. Students will work in both the woodshop and metal shop manufacturing projects.

Media Production (Year-long or semester - Repeatable) 9, 10, 11, 12

.This course allows students to further explore and enhance their skills in multimedia production. Students will write, direct and produce various video products for things like school events, lessons produced by teachers, guest speakers, and so on. Students will also help produce podcasts and other multi-media productions for the district and post them to social media along with creating other multimedia projects. Some of the topics covered include information gathering, computer-based video editing, videography, podcasting, audio editing, audio production, internet publishing, interpersonal communications, and information presentation.

Army Junior R.O.T.C.

General Description: Junior ROTC is offered during school hours but includes many out-of-class activities. It covers the basics in military history, government, technology awareness, and current events, in addition, we also teach leadership skills (how to motivate others) and personal skills (how to study, take tests, and interview for jobs). We also offer extracurricular activities such as Drill Team, Boys/Girls Color Guard, Skating Color Guard, Rifle Team, Honor Guard, Firing Squad, and Raider Platoon. You might even have a chance to go to a JROTC summer camp where you'll train on confidence courses, play team sports and learn land navigation, as well as water safety. It is important to note that No JROTC Cadet is under any obligation to join the military. Out interest is simply to give students an opportunity to develop and improve in ways schools generally don't offer. We aren't promoting the military lifestyle, but we do use military skills to teach self-discipline, confidence, and pride in a job well done. However, students who choose to enter any of the military services after graduation can receive one or two promotions based on the number of years in JROTC and the branch of service.

Advanced Leadership

Open only to students with specific staff positions.

Leadership Educational Training 1 (LET 1) 9, 10, 11, 12

Prerequisite: None

LET 1 is for first-year cadets who have no prior knowledge about JROTC. These cadets will be taught the basics, consisting of an introduction to JROTC, communication skills, map reading, first aid, basic military knowledge, military history, the chain of command, basic marching skills, career opportunities, marksmanship, and basic leadership. These skills will help develop students into better leaders.

Leadership Educational Training 2 (LET 2) 10, 11, 12

Prerequisite: LET 1

LET 2 is for all those who have spent a full year in JROTC. Cadets in this category will begin to learn more intermediate skills such as the role of the U.S. Armed Forces, current events, physical fitness, and technology awareness. The cadets will begin to have more leadership positions and by doing so, gain valuable leadership experience that can only help them during their high school years and beyond.

Leadership Educational Training 3 (LET 3) 11, 12

Prerequisite: LET 2

LET 3 is for all those who have spent two full years in the JROTC program. Cadets in this category begin learning the advanced leadership skills required to hold the higher command and staff positions within the program. Some of these positions include Platoon Leaders, Special Team Commanders, and Assistant Commanders. Some LET 3 cadets may be selected for Battalion Staff positions.

Leadership Educational Training 4 (LET 4) 12

Prerequisite: LET 3

The primary emphasis for LET 4 will be placed on the practical application of cadets' leadership duties and responsibilities within the cadet battalion. The LET 4 year will be structured to allow cadets to perform their assigned command or staff duties, and act as a class instructors for selected subjects such as First Aid, Reading, etc. Academic instruction will consist of self-paced study, suggested readings, seminars, vignettes, and special assignments.

Business and Finance

Accounting 9, 10, 11, 12

Are you interested in tracking the flow of money? This course is for you! One year in Accounting covers the complete accounting cycle in a single proprietorship beginning with the worth of a business and following it through the various business transactions. Completion of this course will enable you to manage the books of a small business.

Advanced Accounting 10, 11, 12

Prerequisite: Accounting

This full-year course is for students who desire a solid background in accounting and are interested in pursuing it as a career. In addition to the topics covered in the first year, Advanced Accounting also tackles managerial accounting, cost accounting, not-for-profit accounting, and financial analysis.

Business Development (Semester-Repeatable) 9, 10, 11, 12

This class will equip you with the tools you need to start your own business and make it successful. Successful students in this class will be able to create business documents such as press releases, projected revenue spreadsheets, employee and customer databases. Students will also learn how to plan and market their business to maximize their customer base. Students will gain real-world business experience working in the King's Corner, our school store.

Personal Finance (Semester) 11, 12

Offered as a one-semester course, Personal Finance helps seniors face the next phase of their lives. Covering topics from Budgeting, finance, taxes, and money management, to paying for college, and steps to take to help them join the workforce.

CCISD Career and Technical Education

All CTE classes below are 2-hour long blocks at the Career and Technical Education Center in Hancock.

CTE Automotive Technology 11,12

The goal of the Automotive Technology program at the Copper Country Career and Technical Education Center is to introduce and prepare students to explore or enter the automotive field. This program provides a "head to hands-on" approach that will lead to success in post-secondary training and into an expanding automotive-related field. Students involved in this program may range from technician trainees to pre-engineering students. Some of the instructional areas to be covered are:

- Introduction to Automotive Technology
- Front-End Alignment
- Engine Diagnosis
- Electrical Systems
- Suspension
- Brakes

CAREER ENTRY OPPORTUNITIES

- Independent Business Owner
- Automotive Engineer
- Automobile Dealership
- Trucking Company
- Factory
- Tire Company
- Garage or Service Station
- Utility Company
- Municipality
- Auto Parts Business

CTE Business and Entrepreneurship 11,12

This CTE program provides an overview of business principles. Topics include the nature of competition in national and global markets, the changing business environment, the role, and importance of small business to local and national economies. The course also examines the entrepreneurial revolution taking place today, illustrates today's entrepreneurial environment, and explains the process and framework approaches to the study of entrepreneurship.

Program Highlights:

- Field Trips to Local Businesses
- "Shark Tank" Style Competition
- Business Plan Project
- Certiport Certification
- Final Presentation
- Workplace Safety Training

CTE Certified Nursing Assistant (CNA) 11, 12

The Certified Nursing Assistant program is ideal for students who would like to explore a career in a healthcare field and for those who would like to work as a CNA. This course will provide training for students to obtain the skills necessary to take the state of Michigan's competency evaluation exam to become a CNA. Upon successful completion of the exam, students will sign up for the Michigan state CNA registry and will be eligible to work as a CNAs in hospitals, nursing homes, and with health care agencies. This course is a combination of theory, lab practicum (where students practice skills), and clinical instruction (students do direct patient care under the guidance of their instructor). Students enhance their verbal and written communication skills in a health care environment and learn the professional, legal, and ethical issues related to health care. Students explore employment opportunities in this fast-growing field through field trips and guest speakers. Some of the instructional areas to be covered are:

- Introduction to Health Care, Vital Signs, Death and Dying
- Body Systems and Diseases, Environmental Safety, and Patient Care Skills
- Medical Math and Medical Terminology
- Infection Control, acute and Long Term Care, and emergency situations
- CPR and First Aid Certifications, Restorative Care, Communication & interpersonal skills

HELPFUL BACKGROUND EXPERIENCE AND APTITUDES

It is strongly recommended that a student entering the Certified Nursing Assistant program be able to:

- Enjoy working and talking with people
- High School classes in Math, Biology or Life Science
- A positive attitude and congenial disposition
- Ability to problem solve
- Computer literacy
- Willing to participate in team activities

CAREER ENTRY OPPORTUNITIES

- Certified Nursing Assistant
- Home Health Aide
- Recreational Therapy Aide
- With one to two years of post-secondary education a student may become:
- Registered Nurse
- Licensed Practical Nurse
- Surgical Technician
- Emergency Med Tech

CTE Construction Trades 11,12

This course is designed to prepare students for job entry in the construction field or advanced work in a technical school. The Construction Technology program provides the student with the knowledge and skills to build a house from the foundation to its completion. Students achieve a wide variety of hands-on experiences, all related to the multi-faceted construction industry as listed in the content area below. Rules of health and safety as prescribed by the National Safety Council will be adhered to in this course. Carpentry Skills – Rough and Finish

- Understanding Architectural Drawings/Blueprints
- Safe Use of Hand and Power Tools
- Material Selection, Layout, Preparation, and Fabrication
- Concrete Work and Laying Up of Masonry Units
- Roofing
- Electrical Wiring
- Plumbing
- Drywall Handling and Finishing

CAREER ENTRY OPPORTUNITIES

Deck Builder, Mason, Rough Carpenter, Roofer, Finish Carpenter, Plumber, Wallboard Installer/Hanger, Electrician's Assistant

CTE Education 11, 12

Early childhood educators work in childcare centers, preschools, and public schools with children through the age of eight. They play an important role in shaping the kind of individual a child will become. In addition to attending to children's basic needs for trust and understanding, they prepare curriculum that stimulates the children's physical, emotional, intellectual, and social growth. They help children explore and learn through the development of their interests which enhances independence and builds self-esteem.

RELATED CAREERS

- Preschool Teacher
- Childcare Center
- Home-based provider
- Family Support Specialist
- Elementary Teacher

CTE Engineering Design 11, 12

An introduction to the engineering profession and to its various disciplines. Focuses on developing problem-solving skills, computational skills, and communication skills for product design and development. Projects focus on design for manufacturing, prototyping, industrial design, customer needs, marketing, and manufacturing. Through active, collaborative work, students practice concurrent engineering utilizing engineering analysis software and CAD systems.

CTE Health Occupations 11, 12

The Health Careers program provides students with the opportunity to explore the many available career options in the healthcare profession. Students learn CPR (Cardio-Pulmonary Resuscitation), emergency first aid, medical terminology, basic anatomy and physiology, and the communication skills necessary for success in the healthcare field. After completion of the core curriculum, including but not limited to communication skills, professionalism, infection control, legal and ethical issues in healthcare, confidentiality, and safety, students have an opportunity to experience hands-on training and job shadowing in local facilities with professionals in the careers they would like to explore. Students also research the roles of various health care professionals through reading, accessing Internet sites, and viewing educational videos to learn more about the careers they may be interested in pursuing. Guest lecturers in the classroom share their knowledge and demonstrate skills, while field trips allow students to get a first-hand look at many of the career options related to health care. Some of the instructional areas to be covered are:

- Communication
- Medical Ethics
- Body Structure
- CPR and First Aid Certification
- Transporting/Transferring/Ambulating/Positioning
- Safety
- Vital Signs
- Asepsis
- Personal Care
- Rehabilitation
- Emergency Procedures
- Medical Terminology

CAREER ENTRY OPPORTUNITIES

- Home Health Aide
- Recreational Therapy Aide
- Occupational Therapy Assistant
- Dental Assistant
- Medical Laboratory Technician
- Physical Therapy Assistant
- Dental Hygienist
- Nuclear Medicine Technologist
- Emergency Medical Technician
- Radiographer
- Respiratory Therapist
- Licensed Practical Nurse
- Surgical Technician
- Veterinary Assistant

CTE Welding and Manufacturing 11, 12

The Welding Technologies/Manufacturing program prepares students for entry-level job skills in the Welding field or participation in a community or technical college program. Instruction is provided in safety, cutting and bending steel, shielded metal ARC welding, gas metal ARC welding (wire feed), gas tungsten ARC Welding (TIG), oxy-acetylene torch cutting, project layout and construction, daily maintenance of shop and equipment and employability skills.

Students are required to complete welding and cutting operations as well as a required project. Students are expected to take American Welding Society Certification tests available to students in ARC, MIG, and Flux Core ARC Welding. If a student passes any of these certification tests he/she will receive a nationally recognized certificate which is valuable for securing employment. Time in this course is split between lectures and hands-on activities. Second-year students will focus on Manufacturing skills that are required by local manufacturers.

Computer Science and Technology

Advanced Cybersecurity (Semester or full-year) 9, 10, 11, 12

Prerequisites: Computer Science Explorations, Computer Science Discoveries, Computers Science Principles, Introduction to Cybersecurity (one of these)

Advanced Cybersecurity lays a foundation for understanding cyber law and policy, linux, networking technology basics, risk assessment, cryptography, and a vareity of cybersecurity tools - all the essential knowledge and skills needed to begin a future in the cybersecurity workforce. Not only does Cybersecurity introduce the breadth of cybersecurity concepts and skills to students, but it also prepares them to verify their technical know-how through the CompTIA Security+ certification. Topics Covered in first semester: Introduction to Linux, Forensic, Passwords, Encryption and Cryptography, Authentication and Security Protocols, Social Engineering, Threat Vectors. Topics Covered in second semester: Malware and Attacks, Architecture and Design, Network Security, Mobile Devices and PKI, Governance, Risk, and Compliance

AP Computer Science A 9, 10, 11, 12

Prerequisite: Recommended Algebra 1

AP Computer Science A introduces students to computer science through programming. Fundamental topics in this course include the design of solutions to problems, the use of data structures to organize large sets of data, the development and implementation of algorithms to process data and discover new information, the analysis of potential solutions, and the ethical and social implications of computing systems. The course emphasizes object-oriented programming and design using the Java programming language.

AP Computer Science Principles 9, 10, 11, 12

Prerequisite: Recommended Algebra 1

AP Computer Science Principles introduces students to the breadth of the field of computer science. In this course, students will learn to design and evaluate solutions and apply computer science to solve problems through the development of algorithms and programs. They will incorporate abstraction into programs and use data to discover new knowledge. Students will also explain how computing innovations and computing systems, including the Internet, work, explore their potential impacts and contribute to a computing culture that is collaborative and ethical.

Cybersecurity (Semester) 9, 10, 11, 12

This is a semester-long course that provides a broad overview of cybersecurity, including how computers and networks are attacked, how the attackers benefit, and how to mitigate attacks. The terminology, approaches, and underlying technologies used in cybersecurity are also covered.

Computer Science Discoveries (Semester) 9, 10, 11, 12

An introductory computer science class built around the idea that computers can be used to express creativity and solve problems. Students will learn the following:

- A formal problem-solving framework and process.
- Creation of interactive Animations and Games
- The app design process

The class uses both text and block-based coding to help facilitate coding for students who are new to it. Each unit will end in a culminating project where students will have the opportunity to use what they've learned creatively

English Department

Conflict Literature (Semester) (Even SY) 10, 11, 12

Prerequisite: English 1 and Instructor approval or English 2

This course explores literature related to various global conflicts. Students will read and discuss literary works related to this theme, as well as primary sources and other supporting material.

Creative Writing (Semester) 10, 11, 12

Prerequisite: English 1 and Instructor approval or English 2

Creative writing is a course that will explore the craft of writing through various formats and purposes. Writing models and discussions will provide scaffolding for students to develop their writing skills.

English 1 9

English 1 is designed to provide a broad overview of literary study and communication skills. Students will read/discuss a variety of short stories, poems, plays (including Shakespearean drama), films, and novels. Composition assignments will enable the students the ability to interpret, analyze, and evaluate literature. Composition instruction will emphasize the development of editing skills, such as proper mechanics, spelling, etc. Students will be guided toward a deeper understanding and appreciation of the various literary genres and will work to better their written and oral communication skills.

English 2 10

Prerequisite: English 1

English I is intended to provide students with an introduction to process/research writing. Students are required to produce numerous pieces of writing (series of poems, short stories, narrative/persuasive essays, or research essays). The Modern Language Association (MLA) method of parenthetical documentation will be used to document source material in the research component of the class. Students read various teacher-selected works. Composition assignments enhance the student's ability to interpret, analyze and evaluate literature. Overall objectives of the course include broadening the student's base of classic literature and studying the relationship between themes/language in literature.

Good Books (Semester) 10, 11, 12

Prerequisite: English 1 and Instructor approval or English 2

This course engages readers in discussions of contemporary young adult books. Emphasis is on developing lifelong reading skills and discussing thematic connections to students' lives.

Literature Through Film (Semester) 10, 11, 12

Prerequisite: English 1 and Instructor approval or English 2

This course provides a broad introductory look at film. Students will consider the ways in which film tells a story using various cinematic techniques. The cultural and social contexts of selected films will be considered. Students will be expected to analyze and discuss selected films.

Outdoor Literature (Semester) (Even SY) 10, 11, 12

Prerequisite: English 1 and Instructor approval or English 2

This course explores the people, places, and themes of the outdoors and natural resources.

Sports Literature (Semester) (Odd SY) 10, 11, 12

Sports and English together? That's a win! Students will read texts diverse in format and style that are thematically related to sports and competition. Exploration of writing tasks and purposes will also be conducted throughout the course. Students need not be a participant in a sport to sign up for and enjoy this course.

World Literature (Semester) (Odd SY) 10, 11, 12

Literature is sometimes a mirror, and sometimes a window. In this course, students will explore literature as the window into diverse cultures. Emphasis will be put onto how literature, food, and culture are interconnected. Students can expect to study cultures through cooking as they work through the texts.

Early College Options:

See Gogebic Community College Course Handbook for descriptions

English Composition 1 – ENG101
English Composition 2 – ENG102
Modern American Literature –ENG212
Public Speaking - SPE101

Fine Arts Department

Art I 9,10,11,12

The main focus of art at this level is to introduce a variety of media with an emphasis on creativity and the expression of ideas through visual means. Exploration of techniques, use of tools, and skill development are major goals.

Art II 11, 12

Prerequisite: Successful completion of Art I

In the second year, the expectation is that skills will be further developed and brought to a new level of competence. Time is allowed for student-directed exploration, more emphasis is placed on other artists' styles and philosophies, as well as encouraging the student to analyze the quality of achievement, awareness of art in the environment, developing a vocabulary of art, and producing work that reflects this.

Art III-IV 11, 12

Prerequisite: Successful Completion of Art I-II

At this level, students would probably be interested in a future career in the arts. These students are encouraged to work independently, do a research project and reflect the maturation of their creative, as well as problem-solving skills. Students develop an understanding of the interplay of media, style, form, and technique in the creation of their work while developing a broader understanding of the meaning and importance of the visual world in which they live.

Band 9,10,11,12

The CHS Band is a select ensemble of students, which meets 5 periods per week to develop a high level of instrumental performance and overall appreciation of music. Admission is determined by fulfilling the requirements set forth by the director or audition. During the year, the Band takes on numerous forms. The early fall is devoted to Marching Band and performance at all home football games. During the remainder of the year, the Band is a concert band, playing 3 concerts, short programs, festivals, and providing music at the baccalaureate and commencement ceremonies. The Band provides music for various athletic events throughout the school year. Regular attendance at these performances is expected of all band students. The CHS Band is a full school year course of study and performance. All members must be enrolled for both semesters of the school year.

Choir 9,10,11,12

The Calumet High School Choir is a choral ensemble open to all high school students. The choir meets daily to develop proper choral techniques and to prepare for a number of annual performances including concerts, local appearances, and baccalaureate and commencement programs. Members of the Choir will also study fundamental music theory, sight-singing, and ear training. All choir members are expected to participate in all choir functions and performances, as well as observe rules and regulations as outlined by the choir director and the administration. The CHS Choir is a full school year course of study and performance. All members must be enrolled for both semesters of the school year.

Jazz Band 9, 10, 11, 12

The Jazz Band is an instrumental ensemble open to all high school students. Wind players must be members of the Calumet High School Band, but rhythm (keyboard, guitar, bass, and drums) players need not be. Membership is by permission of the director. The ensemble will meet daily to explore various styles in the jazz idiom. Emphasis will be placed upon improvisation and the theoretical practices associated with improvisation. The ensemble will perform in several performances in the school and community throughout the school year. All members are expected to participate in these performances. The CHS Jazz Band is a full school year course of study and performance. All members must be enrolled for both semesters of the school year.

Studio Art 9, 10, 11, 12

This is a one-/two-semester course with special emphasis on traditional crafts and art from different cultures. Studio Art involves "hands-on" working with two and three-dimensional materials including sculpture, design, and painting, and may involve group work as well as individual project work.

Studio Music **9, 10, 11, 12**

Students would learn the basics of the piano, guitar, bass, drums, and voice. Students will choose one of these instruments to learn beyond the basics and advance their musical skills throughout the duration of the class. Students would form their own “bands” within the class. Their music group would learn songs of a variety of genres. There would be a year-end concert in the spring consisting of small and whole group performances. Some of these smaller groups may perform at school and community events throughout the year. Unlike traditional high school music classes, it would not necessarily be performance-based. This would allow more time to study topics such as key signatures, notes and rhythm reading, chord progressions, ear training, recording technology, and songwriting. The vocal component would be learning arrangements as a class, and going to choir festival. Students would also have the option to participate in vocal solo and ensemble.

Mathematics Department

Algebra 1 9

Algebra 1 is a class designed to complete the MMC requirement for Algebra 1. This course is recommended for students who completed eighth-grade mathematics or were not satisfied with their comprehension of Algebra 1 in the eighth grade. Upon completion of this class, a student will have satisfied the requirement for Algebra 1.

Algebra 2 10, 11, 12

Prerequisite: Geometry

Algebra 2 is a study of Relations and Functions: more specifically, it includes linear functions, graphing, systems of functions, quadratic functions, power functions, exponential and logarithmic functions, trigonometric functions, and polynomials.

Algebra 2 A/B 11

Prerequisite: Geometry or Geometry Concepts and Applications, teacher recommendation

Algebra 2 A/B is a class designed to complete the first half of Algebra 2 This course is recommended for students who have completed Geometry Concepts and Applications. Upon completion of this class and Algebra 2 C/D, a student will have satisfied the requirements for Algebra 2.

Algebra 2 C/D 12

Prerequisite: Geometry, Geometry Concepts and Applications, and Algebra 2 A/B

Algebra 2 C/D is a class designed to complete the second half of Algebra 2. This course is recommended for students who have completed Geometry, Geometry Concepts and Applications, and Algebra 2 A/B. Upon completion of Algebra 2 A/B, & C/D, a student will have satisfied the requirements for Algebra 2.

Geometry 9, 10

Prerequisite: Algebra 1

Geometry begins with a discussion of the sets of points, since all figures are defined in sets of points. Time is spent in proving geometric facts using the deductive reasoning method, learning both the direct/indirect method of deductive proofs and inductive reasoning. The following facts and definitions are included: angles, perpendicular/parallel lines, congruent triangles, polygons, circles, and other triangles. The proof for the Pythagorean Theorem is explored and simple trigonometry is introduced.

Pre-Calculus 11, 12

Prerequisites: Geometry and Algebra 2

Meant to be a transition to a math-intensive field of study in college, studies will include linear, quadratic, polynomial, exponential, logarithmic, and trigonometric functions. Techniques for solving equations involving these functions will be taught. Graphs will be analyzed for common characteristics.

Statistics and Mathematical Reasoning 12

Students will use math in real-world applications for problem-solving and draw from different areas of math including algebra and geometry. This course also includes statistics and data analysis. Students will conduct studies to collect and analyze data, measure probability and recognize patterns. Open to seniors. Juniors may be admitted with department permission.

Early College Options:

See Gogebic Community College Course Handbook for descriptions

Prerequisite: Algebra 2 or Precalculus

College Algebra – MTH110

College Statistics – MTH211

Calculus – MTH150

Calculus – MTH151

Other Courses

Independent Study (Semester - Repeatable) 10, 11, 12

This course allows a student a learning experience that is academic in nature that allows a pupil enrolled in grades 10-12 the opportunity for self-directed learning. Independent study can be done in any field of study but must have teacher and principal approval.

Emerging Leaders (Semester - Repeatable) 9, 10, 11, 12

This course is designed to teach students the characteristics of effective leadership and to apply that learning to develop and implement effective leadership projects in the high school and throughout the community.

Peer 2 Peer (Semester - Repeatable) 9, 10, 11, 12

Peer to Peer support programs increase opportunities for students with ASD and other needs to access general education settings and curricula. Peers model typical academic and social behavior in educational environments throughout the school day and provide support for students with ASD and other needs to promote independence and socialization. Inclusion of students with ASD and other needs not only improves outcomes for the students with ASD and other needs, but it benefits all students and leads to a more positive, accepting school culture.

Self Management (Semester - Repeatable) 9

In this course, freshmen are exposed to proper study techniques and how to be successful in high school. Focus on homework completion and time management.

Study Hall/Guided Study (non-credit earning) 9, 10, 11, 12

This is an opportunity for students to complete coursework during the school day. Credit is not earned in either course. Guided study allows students to work with an instructor to complete coursework.

Work-Based Learning 11, 12

Work-Based Learning is a program to provide students with a planned program of job training and other employment experiences related to a chosen career. Career Readiness WBL student experiences may be paid or unpaid and must follow federal and state regulations to employ minors. Students arrange their work-based learning and the experience must connect to current or prior enrollment in a related course.

Future Teachers 10, 11, 12

The Future Teachers course will utilized the Future Proud Michigan Educator EXPLORE program. This program will introduce students to educational strategies, systems and professions. The EXPLORE curriculum was built to help students better understand themselves and the learners around them. It builds an understanding of the complex work of teaching and the path to a teaching career. If you are interested in the teaching profession, this is the class for you.

Physical Education/Health Department

Advanced Physical Education (Semester, repeatable) 10, 11, 12

Advanced Physical Education students will look to improve in the areas of speed development, explosive strength, flexibility, agility, and absolute strength. Students will be expected to work at high-intensity levels as well as work on proper strength and fitness forms. This class will be designed to further their knowledge of high-intensity/explosive cardiovascular fitness and resistance training. Evaluation of this course will be based on class participation, weight training logs, and strength and fitness testing.

Physical Education 9, 10, 11, 12

The high school Physical Education curriculum attempts to develop skills and an interest in a variety of leisure time activities, as well as some lifetime sports activities.

Health (Semester) 9**,** 10, 11, 12

Health Education is considered an essential component of a balanced school curriculum. Today, more and more people have the desire to lead a healthy life. The class attempts to give the student practical knowledge about the physical, mental and social components of a healthy person. Some of the basic areas discussed in this course include consumer health, care of the body, nutrition, mental health, substances that modify behavior, prevention of disease, chronic health conditions, family life, social health, as well as community health issues.

Weightlifting (Semester, repeatable) 10, 11, 12

This course is designed to build on the concepts in basic weight training. Students are challenged to improve their existing level of fitness. Students can design and implement a safe and effective personal strength program or use one of the provided weight training programs. Students will learn new skills and techniques that they can implement into their weight training programs to continually improve their overall health and strength.

Science Department

Biology 9, 10

This first-year Biology course is open to students in grades 9 through 11 who have not had a Biology course. The material covered in the course will be of general background for the life sciences. The content includes scientific inquiry, reflection, and social implications; organization and development of living systems; interdependence of living systems; the environment, genetics, and biodiversity.

Chemistry 10, 11, 12

Prerequisite: Physical Science

Chemistry is the study of matter and the changes it undergoes. This study consists of theory, problem-solving, and experimentation. Five principle themes of chemistry will be studied including 1) inquiry, reflection, and social implications of chemistry; 2) forms of energy; 3) energy transfer and conservation; 4) properties of matter; and 5) changes in matter.

Human Anatomy & Physiology 11, 12

Prerequisite: Biology

Human Anatomy and Physiology is for students with a "C" average or better in Biology. This is a continuation course and will cover the human body in great detail. There will be an emphasis on independent study and the use of the scientific research method.

Food Science (Semester) 9, 10, 11, 12

Food science will study a variety of scientific principles as they relate to the production of food. Students will explore these principles through cooking, preserving, gardening, and other hands on experiences.

Forensic Science (Semester) 11,12

Prerequisite: Physical Science and Biology

Forensic science, or forensics, is a course rich in exploration and lab investigation which applies many disciplines of scientific study such as biology/anatomy, chemistry, and physics to solving crimes. The course is concerned with gathering and analyzing the evidence from a criminal case with the purpose of revealing the truth. By analyzing fingerprints, footprints, blood spatter, traces, and remains, forensic scientists, seek to reveal the identities of criminals, as well as the complete facts related to criminal events. This course surveys key topics in forensic science, including the application of the scientific process to forensic analysis, procedures and principles of crime scene investigation, physical and trace evidence and the law and courtroom procedures from the perspective of the forensic scientist.

Natural Resources 9, 10, 11,12

The biology and chemistry of local natural resources will be studied in project-based learning opportunities. Topics to be addressed include forestry, fish & wildlife, soils & geology, aquatic ecology, energy, navigation with map & compass, and an introduction to GPS & GIS. Out-of-doors field work will occur at sites such as the CLK School Forest.

Physical Science 9

Introduction to Physics [Semester 1] will cover the basic concepts of physics and the International System (SI) of Measure. The course will include mechanics – forces, friction, motion, gravitation, work, power, and energy; waves and wave motion; electricity and magnetism – electrostatics, direct and alternating current, and basic magnetic effects.
Introduction to Chemistry [Semester 2] will cover the basic concepts of chemistry. The course will include the composition of matter, including chemical/physical changes; atomic structure of the atom, electron configuration, chemical bonding; equation writing; gas laws, solids, liquids, and gases, as well as acids, bases, and salts.

Physics 11, 12

Prerequisite: Algebra 2 (Chemistry is highly recommended)

Physics begins with an introductory unit on the concepts of physics and the International System of Measure. The remainder of the course involves five principal areas of physics: 1) Mechanics - includes the study of forces, friction, linear motion, gravitation, circular and rotary motion, work, power and energy, vectors, and two-dimensional motion; 2) Waves and wave motion; 3) Acoustics (the study of sound); 4) Optics (the study of the nature and properties of light), and 5) Electricity and magnetism - includes studying electrostatics, direct current circuits, and basic magnetic effects.

Social Studies Department

Civics (Semester) 10

Students will study the fundamentals of American Democracy in this one-semester course, by examining our heritage, constitution and citizenship. Students will also be introduced to the basic Economic concepts, making decisions, the role of the individual, the role of the government, and taxes. Connections will be made between the U.S. and World Affairs. Community responsibility will also be stressed. This may include direct community-service involvement. This course is required for all sophomores.

Economics (Semester) 10

The Economics course covers the characteristics of the Capitalistic system meaning, importance, history, and evolution. Specific areas covered are the production of goods and services, price determination, and international economics. A major part of the course deals with the day-to-day problems of earning, spending, and saving. The following areas are covered in this phase: 1. Consumer Rights and Protection - legal rights and responsibilities, consumer aid and assistance. 2. Economics for the Consumer - money and the economy. 3. Learning to Be a Better Buyer - why consumers buy, buying wisely, meeting housing needs, automobile financing, and costs. 4. Managing Your Credit and Money - money management, saving and investing, understanding credit, and using credit. 5. Taxes: Federal and State - computing your tax, using the appropriate forms, using tax booklets and tablets.

Global Issues (Semester) 9, 10, 11, 12

Join in on a thought provoking journey through the intricacies of our increasingly interconnected world with the Global Issues Course with Mr. Valen. This curriculum will focus on technology and ethics, peace and conflict, migration and refugees, as well as important geopolitical locations.

Interactive Maps (GIS) (Semester) 9, 10, 11, 12

Do you like maps? Current events? History? Do you like working with computers? If yes, this course is for you. This course will allow you to view and identify map features and patterns, use GIS tools to analyze a problem, and create a GIS web app that tells a story. Students can choose a research topic in history, current events, or local issues. The course will stress themes like: the impact of interaction, change and continuity, the impact of technology and demography, social structure and gender, cultural and intellectual developments, and politics.

Local History (Semester) 10, 11, 12

This course will explore the rise and fall of the copper mining industry in the Lake Superior copper district and the communities and local economies that rose and fell with it. Through classroom resources, site visits and hands-on activities, we will examine the unique geology of our region that contributed to its richness, as well as the ethnic groups, technology, economics, social trends and historical context that tell the amazing story of the Copper Country.

U.S History and Geography 11

As you study United States History and Geography, you will learn about the American Experience over time and space. You will encounter powerful and sometimes conflicting ideas while learning about people and events in different places and times. You will investigate our diverse and common traditions, and work to understand the complex interactions among various environmental, human, and social forces that have influenced and continue to influence America and Americans. Studying United States History and Geography connects us to people and events across time and space, illuminating the range and depth of human experience on grand as well as local scales. It involves an analytical study of the nation's political ideals, or times and places where people or events challenged, violated, or expanded those ideas. Units include the aftermath of Reconstruction, the growth of an industrial & urban America, becoming a world power, WWI, progressivism and reform, the Great Depression, WWII & post-war America, the Cold War, the Civil Rights Movement, the Vietnam War, and beyond.

World Geography/History 1 (Semester) 9

World History and Geography 1 is an integrative discipline that studies change and continuity over time in people, places, and environments. The content of history consists of human beings, and how, at different times and in different places, people and their cultures and societies have changed and developed. Historians study the past to understand the present, drawing upon a vast storehouse of information about human behavior, relationships between people and environments, and the ways that people developed solutions to meet their perceived problems. World History is important for students in the 21st century, because of the role the past plays in shaping the present. As a philosopher once remarked, "We live our lives forward, but we understand them backward." Units covered include the United States and Canada, Latin America, Europe, Russia, and North Africa.

World Geography/History 2 (Semester) 9

This extension of World History/Geography I will include nations other than those already studied. Of necessity, the study of each nation will be brief, with greater emphasis on stronger nations. The study includes physical conditions and national boundaries. Students are expected to recognize many countries at random on an outline map at the conclusion of the course. Map making, map tests, and projects will be used to prepare for this test. Also included will be the study of historical and cultural aspects of these nations. This course is required for all seniors.

Early College Options:

See GCC Course Handbook for descriptions

General Psychology – PSY101 **American Economy - ECO 101**

World Language Department

French I 9, 10, 11, 12

In French I students will learn basic vocabulary and grammatical structures that are reinforced through spoken, aural, and written use of the language. Some of the topics that will be used to accomplish this learning objective are greetings, family, food, sports, weather, time, and colors. Students will also gain an understanding of French geography and culture through slideshows, films, and various projects throughout the year.

French II 10, 11, 12

Prerequisite: French I

French II begins with a thorough review of the vocabulary, grammar, and culture learned in French I and progresses to a more complex usage of the language. Mastering the past tense (passé compose) and several varieties of verb patterns will allow for an increased understanding of films, short stories, and news articles. Students will also develop an increased understanding of the French-speaking world with an emphasis on the Western Hemisphere.

French III/IV 10, 11, 12

Prerequisite: French I&II

Third and fourth-year French consolidates the basic language patterns learned previously. Stress is on various aspects of communication such as reading, watching videos, presenting skills, conversations, and writing letters/compositions. Vocabulary is increased. Mastery of other verb tenses is acquired. Fluency improves.

Spanish I 9, 10, 11, 12

Spanish is the official language of 21 countries and is the newest, most widely spoken language in the western hemisphere, as well as the second most common language used in the U.S. In the first year, the student learns a basic vocabulary, the principle grammatical patterns of the language, and will be able to introduce themselves to others, describe their physical states, discuss sports, hobbies, personalities, home, family, and school routines. Communicating in Spanish is the goal.

Spanish II 10, 11, 12

Prerequisite: Spanish I

Second-year Spanish begins with a thorough review of vocabulary and sentence structures. More complex structures will be added and vocabulary will be doubled or tripled. Mastering the past tense (the "preterite") and several varieties of verb patterns will allow for reading a novel. Films, videos, and library research will present various topics in Hispanic culture.

Spanish III/IV 11, 12

Prerequisite: Spanish I & II

Third and fourth-year Spanish consolidates the basic language patterns learned previously. Stress is on various aspects of communication such as reading, watching videos, presenting skills, conversations, and writing letters/compositions. Vocabulary is increased. Mastery of other verb tenses is acquired. Fluency improves.