2023-2024

STUDENT

CURRICULUM

BOOK

IRON MOUNTAIN HIGH SCHOOL

TO STUDENTS & PARENTS:

It is with pride that we present this edition of the Student Curriculum Book to assist you in planning for your years at Iron Mountain High School. We are very proud of the rich tradition of academic standards and success experienced by students at IMHS, the number of different course offerings available to our students and the effort put forth by the various departments in keeping course offerings current for our students.

Included in this curriculum book are classes offered at IMHS, Bay College Dual Enrolled classes offered at IMHS, Online Elective Opportunities with Offsite Extended Component, and The Dickinson-Iron Technical Center Courses.

This sense of pride brings with it a deeper sense of responsibility. A responsibility to maintain the tradition of academic standards and success, to maintain or even increase the number of course offerings, and to maintain vigilance to keep course offerings current and looking toward the future. We at Iron Mountain High School accept that responsibility and look forward to helping you plan your future.

However, there is a responsibility that also falls upon you, the student. Study this curriculum book, discuss it with your family, discuss your options with teachers of courses that you are considering enrolling in, and talk over your future plans with the guidance counselor. Your choices on the Course Selection Sheet that you fill out will determine such things as the number of sections and the number of students in each section of classes that are offered next year. If the Course Selection Sheet is not filled out with care and commitment, and a considerable number of students request schedule changes next fall, class sizes are affected and your education could be placed in jeopardy.

So please, when you come in to choose your classes for next year, be prepared. Make sure that the classes you sign up for are the ones that best help you prepare for your future plans.

If you have any questions, please feel free to call the high school office at 779-2610 for information.

GRADUATION REQUIREMENTS

CREDITS
With a few exceptions, one-half (.50) unit of credit will be awarded for the successful completion of each semester of instruction in a class which meets one period per day, five days a week.
CREDITS REQUIRED: MICHIGAN MERIT CURRICULUM
A total of 26 credits.
Students who earn a cumulative GPA of 3.75 - 4:00 during their freshman, sophomore, junior, and senior years will receive a ***High Honors Diploma****. Students who earn a GPA of 3.25 - 3.74 during their freshman, sophomore, junior, and senior years will receive an* ***Honors Diploma****.*

COURSES REQUIRED FOR GRADUATION
- *4 Math credits*
- *4 English Language Arts credits*
- *3 Social Studies credits*
- *3 Science credits*
- *2 World Languages credits (Can include American Sign Language)*
- *1 Visual, Performing or Applied Arts credit*
- *Online learning experience*
- *PE and Health (Provided in 8th grade in our district. Must earn a passing grade in each.)*

PERSONAL CURRICULUM
The Personal Curriculum (PC) is intended for a small percentage of students who seek to exceed the requirements of the MMC or for students with disabilities who need special accommodations or modifications. For more information on PC, please contact Mr. Herman.

TESTING OUT OPTIONS
See Student Handbook for Policy

GENERAL INFORMATION

CAREER PREPARATION
Iron Mountain High School participates in the Career Preparation System, initiated by the State of Michigan, which coordinates a series of activities beginning at the elementary school. Strong academic preparation is the most important component of this initiative, along with the development of career awareness, and the technical and workplace readiness skills necessary to prepare for the transition from high school to postsecondary education and successful employment.

CLASS RANK
Class rank is determined at the end of each semester. For seniors, the final class rank is determined at the end of their first semester. After each student's GPA has been determined, the individual averages are arranged from highest to lowest. In the case of a tie, total credits and SAT scores may be used as a tiebreaker.

COLLEGE COURSES

Students who have met the requirements and have not yet graduated from high school, may take college courses and have that indicated on their permanent high school record.

COUNSELOR

The counselor is available for consultation in the counseling office between the hours of 7:50 a.m. and 2:50 p.m. Students should see the counselor during their seminar. If you do not have a seminar, leave your name in the guidance office and the counselor will send for you.

COURSE SCHEDULE CHANGES

Students are urged to give careful thought in planning their schedule of classes each year so changes can be avoided. Classes can be changed during the first week of a semester; however, permission from parent, teacher, and counselor is required.

DAILY SCHEDULE

Period 1	*7:50-8:37*	*Period 5*	*12:19-1:06*
Period 2	*8:42-9:29*	*Period 6*	*1:11-1:58*
Seminar & Period 3	*9:34-10:47*	*Period 7*	*2:03-2:50*
Period 4	*10:52-11:39*		
Lunch	*11:40-12:14*		

DRIVER EDUCATION

Students interested in driver education should contact Dickinson Area Driving School at (906) 828-1945 for information.

DUAL ENROLLMENT

The Postsecondary Education Opportunity (PSEO) Act provides students who meet the criteria to enroll in college classes while in high school. ***Please note that the NCAA does not recognize Dual Enrollment Credit if they are also not taken for HS credit****. For more information, please see the Guidance Counselor.*

EXEMPTION

Students with physical disabilities are excused from physical education classes on presentation to the principal of a written statement from their physician.

GRADE POINT AVERAGE

A student's grade point average (GPA) is determined by adding the numerical value of each grade earned and dividing by the total number of grades.
Example: If a student had three B's and two C's for one semester, his grade point average would be determined by dividing 13 by 5. In this case the GPA would be 2.600. Each semester the new grades are calculated in with all past grades and new class standings are determined.

Grade Point Average Value

A	*= 4.00*	*B-*	*= 2.667*	*D+*	*= 1.333*
A-	*= 3.667*	*C+*	*= 2.333*	*D*	*= 1.00*
B+	*= 3.333*	*C*	*= 2.00*	*D-*	*= .667*
B	*= 3.00*	*C-*	*= 1.667*	*F*	*= .00*

GRADUATION HONOR DISTINCTIONS
Students who earn a cumulative GPA of 3.75 - 4:00 during their freshman, sophomore, junior, and senior years will receive a ***High Honors Diploma****. Students who earn a GPA of 3.25 - 3.74 during their freshman, sophomore, junior, and senior years will receive an* ***Honors Diploma****.*

HONOR ROLL
Students who achieve a GPA of 3.00 or better during a marking period will be listed on the Honor Roll in one of the following categories: 4.00, 3.75 to 3.99, 3.50 to 3.74, 3.00 to 3.49

HONOR STUDENT CELEBRATION
The Iron Mountain Board of Education will invite all students (grades 9-12) who have earned a cumulative GPA of 3.25 to the annual Honor Student Celebration where they receive special recognition.

RETAKING COURSES

A student may retake a class for which they have earned credit, however, they will not receive credit for taking the class again nor will there be a change in grade for the class. The courses that are exceptions to this are listed in the Course Offerings descriptions. Examples: Advanced Fitness, Phys Ed & Wellness, Band, Chorus

TECH CENTER CLASS SCHEDULE
Offered by blocks

1st Block (8:05 to 9:50 a.m.):	*1st & 2nd Periods*
2nd Block (10:00 to 11:45 a.m.):	*3rd & 4th Periods*
3rd Block (1:15 to 3:00 p.m.):	*6th & 7th Periods*

COURSE OFFERINGS

EXPLANATION
The following section of course offerings will be listed by department. For each course, there will be a department letter code, the course name, the course number, the credit given, and grades that may enroll in the course.

STUDENT ATHLETES

Student athletes - be sure to monitor the NCAA website (http://www.ncaaclearinghouse.net) for current information on eligibility requirements. You are responsible for making sure you are taking classes that will meet their requirements.

PHYSICAL EDUCATION DEPARTMENT (M)

M ADVANCED FITNESS 030 Credit 1.00 (9-12)
Prerequisite: PE This course will be for an entire school year. Students will engage in strength/weightlifting activities three days per week and perform cardiovascular exercises the remaining two days. This course may be repeated for credit.

M PHY ED & WELLNESS 040 Credit 1.00 (9-12)
The goals and objectives of this course are to provide the opportunity to improve physical fitness levels and increase knowledge of personal wellness and how it can be applied. The following areas will be explored:

- *Team Sports: basketball, volleyball, softball, soccer, badminton*
- *Lifetime activities: bowling, archery, badminton, strength training*
- *Personal Fitness – Strength, flexibility, endurance and body composition*
- *Nutrition*
- *Personal fitness programs*
- *Weight management*
- *Stress management*
- *Risky health behaviors*

Other topics include aerobic/anaerobic, target HR/resting HR, body mass index and body fat percentage, "FITT" principles, fitness assessments, etc.

ENGLISH DEPARTMENT (B)

B ENGLISH 9 210 Credit 1.00 (Required 9)
This is a full year course required of all freshmen. The content expectations of the New Michigan Curriculum will be included in the instruction of materials dealing with

inter-relationships and self-reliance. Units include an introduction to high school reading and writing, the novel, epic poetry and Shakespearean tragedy.

B ENGLISH 10 220 Credit 1.00 (Required 10)
This is a full year course required of all sophomores. The content expectations of the New Michigan Curriculum will be included in the instruction of materials dealing with American literature, especially post World War II literature. The focus this year for all units will be Critical Response and Stance.

B ENGLISH 11 230 Credit 1.00 (Required 11)
This is a full year course required of all juniors. The content expectations of the New Michigan Curriculum will be included in the instruction of materials through the study of British and world literature. The focus this year will be Transformational Thinking.

B ENGLISH 12 241 Credit 1.00 (Required 12)
This is a full year course offered to all seniors and will be required for the class of 2011 and beyond. The content expectations of the New Michigan curriculum will be included in the instruction of a variety of literary genres all dealing with leadership qualities. The focus this year will be Diverse Perspectives.

MATHEMATICS DEPARTMENT (E)

E ALGEBRA 1 310 Credit 1.00 (8-12)
Algebra 1 provides a formal development of the algebraic skills and concepts necessary for students to succeed in advanced math courses. The course involves understanding, writing, solving, and graphing linear and quadratic equations - including systems of two linear equations and inequalities. Students learn to solve quadratic equations by graphing, factoring, completing the square, and applying the quadratic formula.
Other topics that are also covered are exponents, radicals, and polynomials.

E GEOMETRY 311 Credit 1.00 (9-12)
Prerequisite: Passing grade in both semesters of Algebra 1. In geometry the student is expected to develop powers of spatial visualization, deductive reasoning, and an appreciation of the need for precision of language in mathematics. To accomplish this, we study the relationships among geometric elements. During the first semester, the elements studied are equality, congruency, inequality, parallelism, and similarity. The second semester we delve into geometry of circles and spheres and also include trigonometry, coordinate geometry, and areas and volumes of geometric figures.

E ALGEBRA 2 320 Credit 1.00 (10-12)
Prerequisite: Passing grade in both semesters of Algebra 1. Algebra 2 is a one-year course covering the following topics: linear equations and inequalities; systems of linear equations and

inequalities; matrices; quadratic, polynomial, exponential, logarithmic, rational, and trigonometric functions; and probability and statistics.

E APPLICATIONS OF ALGEBRA 2 370 Credit 1.00 (11-12)
Prerequisite: Passing grade in both semesters of Algebra 1. This course begins by providing a foundation in basic algebraic concepts. Students will then use different types of mathematical models (algebraic, graphical, and numerical) to solve real-world problems. Students will investigate linear, quadratic, and exponential models, as well as statistics and probability. Consideration for this course should be by Math Department/Guidance Office recommendation and/or grades lower than a C in previous high school science classes.

E PRE-CALCULUS 331 Credit 1.00 (11-12)
Prerequisite: Passing grade in both semesters of Algebra 2. This is an analysis course and the prerequisite for Calculus. Topics from Algebra 2 are reviewed and treated in greater detail, such as families of functions and transformations. Other topics covered include sequences, logarithms, circular and trigonometric functions and identities, vectors, and conic sections.

E ADVANCED PLACEMENT CALCULUS 350 Credit 1.00 (12)
Prerequisite: B- or higher in both semesters of Pre-Calculus. This course consists of a full year of work in calculus comparable to a Calculus 1 course in colleges and universities. AP Calculus will follow the topics outlined by the College Board (www.collegeboard.org). Students who take AP Calculus will have the option of receiving credit or advanced placement from a college or university by passing the Advanced Placement Exam in Calculus given in May of that school year. The unifying themes taught in this class are limits, derivatives, integrals, applications, and modeling.

SCIENCE DEPARTMENT (D)

D EARTH SCIENCE 460 Credit 1.00 (9)
The study of Earth Science incorporates elements from the other science disciplines (Physics, Chemistry and Biology) to explain the functioning of the Earth system. Understanding the Earth system is essential for all students if they are to make informed decisions regarding natural resources, environmental issues and the risks posed by natural hazards. The goal of Earth Science is to engage students in the study of the individual components and their interactions so they will understand the complex dynamics of our planet.

D BIOLOGY 420 Credit 1.00 (10-12)
Biology is designed to give students an understanding of life processes. The study of life is approached from various perspectives, including a cellular and ecological viewpoint. This course is divided into five major units: understanding cells (functions, growth, development),

organization of living things, heredity (genetics, DNA), evolution (changes over time, adaptations), and ecology (interactions of ecosystems). Students will also be involved with constructing new, and reflecting on current scientific knowledge. Laboratory investigations and problem solving are emphasized in each unit.

D CHEMISTRY 430 Credit 1.00 (11-12)
Chemistry is a traditional college preparatory lab-based course with topics that include, but are not limited to: measurement, atomic structure, electron configuration, the periodic table bonding, gas laws, properties of liquids and solids, solutions, stoichiometry, reactions, kinetics, equilibrium, acids and bases, and nuclear chemistry. Laboratory techniques and procedures will be implemented, including analysis and interpretation of data, in addition to lecture and class discussion. Strong math skills are required and the successful completion of algebra and geometry is recommended.

D APPLIED CHEMISTRY Credit 1.0 (11-12)
Applied Chemistry is an equivalent chemistry course designed with topics including basic chemistry principles, properties of matter, simple chemical reactions, measurement and data collection, states of matter, energy, and real-world chemistry. Inquiry based labs and hands-on activities will enhance the understanding of chemistry concepts. Consideration for this course should be by Science Department/Guidance Office recommendation and/or grades lower than a C in previous high school science classes.

D ADVANCED BIOLOGY 440 Credit 1.00 (11-12)
Advanced Biology is designed for students interested in biological related fields. The first semester introduces scientific processes with an introduction to the human body. The second semester covers structure and function of human body systems. Coursework includes scientific inquiry, human anatomy and physiology and laboratory activities. Several dissections, including fetal pigs, are used throughout the course.

D PHYSICS 441 Credit 1.00 (11-12)
Physics is a college preparatory course for those individuals who intend to pursue studies in a science related area, whether it is as a technician or a professional. A strong math background is required, with a second year of algebra being a minimum prerequisite. Topics covered are: measurement, mathematical functions and models, kinematics and dynamics of motion, vectors, light, mechanics, electricity and atomic structures.

D ADVANCED CHEMISTRY 450 Credit 1.00 (11-12)
Prerequisites: Chemistry and Algebra 2. Advanced Chemistry builds students' understanding of the nature and reactivity of matter. After studying the structures of atoms,

molecules, and ions, students move on to solve quantitative chemical problems and explore how molecular structure relates to chemical and physical properties. The equivalent of an introductory college-level chemistry course, Advanced Chemistry prepares students for the AP Exam and for further study in science, health sciences, or engineering courses in college.

D HIGH SCHOOL STEM Credit 1.0 (9-12)

STEM is an introductory course for 9th-12th grade students. It focuses on the basic principles of Science, Technology, Engineering, and Math to solve real-world problems. Students will develop problem solving skills through understanding problems, processes and tools, and work as part of a team. Students will be given various tasks to complete, both simple and complex. Students will also learn how to design, conduct, and present findings from scientific research. Topics covered in STEM will require students to use problem solving skills and teamwork in order to be successful. Projects in STEM require students to take a normally weak material and use it to make something stronger. Projects may involve a simple laboratory exercise, medieval engineering, 3-D printing and modeling, engineering and design fun, scientific research, or a large design/construction project. A unit focusing on robotics will introduce students to basic programming as well as problem solving strategies. Students will use the LEGO MindStorms platform and work in teams to complete tasks involving space exploration, autonomous vehicles, and R.O.V.'s.

SOCIAL STUDIES DEPARTMENT (C)

C WORLD HISTORY AND GEOGRAPHY 515 Credit 1.00 (Required 9)

This course is designed and organized to instill an appreciation of man's past efforts to meet everyday problems that affect the basic institutions of all cultures, i.e., the family, the economy, the government, religion and education. The history of mankind is of compelling significance and interest. The man of today's world is very much what he is because of the urges, thoughts, and deeds of the many men who preceded him. Today's man is involved in the process, consciously or unconsciously, of shaping the world of tomorrow's man. There is a close and vital relationship between the past, the present, and the future. Just as our ancestors live on in us, we shall live on in our descendants. Geographical emphasis will be on major areas in the physical world such as Europe, Asia, Africa and Latin America. The development of a background in map reading and interpretation of data will also be covered.

C US HISTORY FROM 1870 532 Credit 1.00 (Required 10)

This course will cover seven major areas of study: 1) Rebuilding the nations after the American Civil War; 2) The Great Depression; 3) World War II; 4) The Cold War and the Korean War; 5) The Vietnam War Years; 6) The Conservative movement (Reagan/Bush); and 7) The United States in today's world.

Throughout the year, we will consistently encounter basic themes which will include America in the world, economic opportunity, science and technology, the American dream, women in

America, Constitutional concerns, Democracy in America, civil rights, cultural diversity, and immigration/migration.

C CIVICS 520 Credit .50 (Required 11)
This is a one semester course providing knowledge and an understanding of the system of government in which we live, work and play. The course of study involves studying our system in comparison with others. It shows how our national, state and local units of authority operate on the federalist principle. All three units are studied concurrently and the role of citizenship is another important area that is given proper attention. The course involves the use of a basic textbook, individual work to learn the meanings of governmental terms, various media sources, resource people when conditions permit, and discussions on current developments.

C ECONOMICS 541 Credit .50 (Required 11)
Understanding economics – what some people call "economic literacy" – is becoming essential for citizens in our national and increasingly interconnected world economy. Productive members of society must be able to identify, analyze, and evaluate the causes and consequences of individual economic decisions and public policy including issues raised by constraints imposed by scarcity, how economies and markets work, and the benefits and costs of economic interaction and interdependence. Such literacy includes analysis, reasoning, problem solving, and decision making that helps people function as consumers, producers, savers, investors, and responsible citizens. This course of study will present a foundation of the above stated factors. Students will also complete job application forms, resumes, and participate in a mock interview. A basic textbook is used in this course, which is supplemented with numerous handouts and various media sources.

FOREIGN LANGUAGE DEPARTMENT (F)

F SPANISH 1 711 Credit 1.00 (9-12)
Emphasis is placed on an elementary control of Spanish in listening, reading, writing and speaking. Goals include the demonstration and understanding of basic vocabulary and grammar, including number, gender, order, verb usage, negation, interrogation and possession. Hispanic customs, geography, and culture will be discussed through the use of videos, slides, music, and games. An integrated audio-video program accompanies the text at all four levels of Spanish.

F SPANISH 2 721 Credit 1.00 (10-12)
This is a continuation of level one with further practice in pronunciation and study of vocabulary, grammar, sentence structure, and culture. Students will participate in more complex conversations about daily life situations. They will also be expected to demonstrate listening and reading comprehension of brief passages of medium difficulty. There will be additional development of writing skills during the second semester. Mexico, its people, history, and customs will be studied in depth at this level. Upon completion of Spanish 2, students are

eligible to participate in the Spanish Club's annual trip to Argentina, Costa Rica, Mexico or Spain.

F SPANISH 3 731 Credit 1.00 (11-12) ***GRADUATION REQUIREMENTS***

CREDITS
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CREDITS REQUIRED: MICHIGAN MERIT CURRICULUM
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COURSES REQUIRED FOR GRADUATION
- *4 Math credits*
- *4 English Language Arts credits*
- *3 Social Studies credits*
- *3 Science credits*
- *2 World Languages credits (Can include American Sign Language)*
- *1 Visual, Performing or Applied Arts credit*
- *Online learning experience*
- *PE and Health (Provided in 8th grade in our district. Must earn a passing grade in each.)*

Advanced practice in conversation, composition, and reading are targeted in this course. These skills are developed through an introduction to literary analysis, skits, and conversation groups. A thematic approach to vocabulary is used to develop proficiency in verbal and written expression. A thorough study of Spain, its people, history, art, and customs is the primary cultural focus. During the second semester, students at this level travel to Españolandia, a Spanish immersion event at Northern Michigan University.

F SPANISH 4 741 Credit 1.00 (12)
This course is conducted entirely in Spanish. It is a continuation of the study of the four basic skills of foreign language acquisition: reading, writing, listening and speaking. Highlights include an overview of Cervantes' Don Quijote de La Mancha. Students are also introduced to the study of Hispanic civilization, culture, literature, and art at an advanced level. Oral presentations and writing projects are an integral part of the curriculum.

ART DEPARTMENT (L)

L ART 1 810 Credit 1.00 (9-12)
This class will provide a strong foundation in the elements and principles of art. Emphasis is placed on drawing and composition. Sketchbooks will be required. Realistic drawing and

*shading techniques will be practiced. Students will learn color theory and how it applies to creating realistic artworks. Students will work in graphite and colored pencil, pen and ink, watercolor, tempera, acrylic painting, relief cut printmaking, sculptural work, and oil and chalk pastels. Art history and art appreciation will be covered in conjunction with the appropriate studio projects. *A $10.00 materials fee may be charged to cover special order requests.*

L ART 2 820 Credit 1.00 (10-12)
*Prerequisite: Art 1. More advanced skills in drawing and composition will be explored. Sketchbooks will be required. . Students will work in graphite and colored pencil, pen and ink, charcoal, watercolor, acrylic paint, oil pastels, mixed media and sculptural work. Art history and art appreciation will be covered in conjunction with the appropriate studio projects. *A $10.00 materials fee may be charged to cover special order requests.*

L ART 3 830 Credit 1.00 (11-12)
*Prerequisites: Art 1, Art 2. This is an advanced course with a strong emphasis on gaining proficiency in drawing media and expanding capabilities in a wide range of media including graphite, colored pencil, mixed media collage, sculpture, and acrylic and watercolor painting. Sketchbooks will be required. Art history and art appreciation will be covered in conjunction with the appropriate studio projects. *A $10.00 materials fee may be charged to cover special order requests.*

L ART 4 840 Credit 1.00 (12)
*Prerequisites: Art 1, Art 2, Art 3. This is an advanced class for students with a serious interest in the visual arts. Students should be highly motivated, have a strong foundation in drawing and painting, and have an interest in exploring a variety of creative avenues. Strong emphasis placed on observational drawing. Students will work in a variety of media. Sketchbooks will be required. Art history and art appreciation will be covered throughout in conjunction with studio projects. Students will continue to build their portfolios. *A $10.00 materials fee may be charged to cover special order requests.*

MUSIC DEPARTMENT (J)

J CONCERT BAND 910 Credit 1.00 (9-12)
Concert Band is open to all students who have successfully completed Middle School Band or who, through private instruction, have achieved a proficient level at the various band instruments. Concert Band performs at two concerts each year and participates in Concert Festival in the spring. Students are also encouraged to participate in Solo and Ensemble Festival in the spring. The Concert Band performs as the pep/marching band for football season and performs at local and school events and civic parades. Music studied includes classical, pop, and standard band literature. Students enrolling in Concert Band should enroll for the entire year as the curriculum for the year is cumulative and preparation for Spring

Concert, Festival, and civic performances takes place throughout the entire school year. Educational travel opportunities are offered occasionally to enhance students' musicianship.

J CHOIR 911 Credit 1.00 (9-12)
Students in this course will be concentrating on pitch identification and general music training that will prepare them for Honors Choir. This group will be performing for the Christmas concert, spring concert, solo ensemble and large group festival.

J JAZZ ENSEMBLE 1 (2) 913 (914) Credit .5 per year (9-12)
Prerequisite: Concurrent enrollment in Concert Band, successful completion of three years middle school and/or high school band, and successful audition for ensemble. Jazz Ensemble is an advanced music class in which one particular genre of music is studied—jazz. Emphasis is placed on style and improvisation, listening, and jazz history. Music selections include Big Band, blues, and modern jazz literature. Students enrolling in Jazz Ensemble should be prepared to make the commitment to attend class at 7:00 a.m. on Tuesday, Thursday, (Monday, Wednesday) and every other Friday for the entire year. The curriculum is cumulative. Preparation for Spring Concert, Festival and civic performances takes place throughout the entire school year. Performances include two school concerts, Solo and Ensemble Festival (as an ensemble), and several community performances each year. In addition, the Jazz Ensemble performs as the pep band for the varsity boys' and girls' basketball season. Educational travel opportunities are offered occasionally to enhance students' musicianship.

J GUITAR 915 Credit 1.0 (9-12)
Students will learn the basics of the guitar technique, maintenance and history. Students will learn to play basic chords, melodies and songs.

TECHNOLOGY ELECTIVES

AP (ADVANCED PLACEMENT) COMPUTER SCIENCE PRINCIPLES STEM Credit 1.0

Prerequisite: Passing grade in both semesters of Algebra 2

AP Computer Science Principles is a full-year, rigorous, entry-level course that introduces high school students to the foundations of modern computing. The course covers a broad range of foundational topics such as programming, algorithms, the Internet, big data, digital privacy and security, and the societal impacts of computing. There are five core units of study, with a sixth unit devoted almost exclusively to students working on the AP Performance Task projects. It is expected that students will complete these performance tasks as well as take the AP Exam in May. Students who pass the exam can receive college credit for the course.

ELECTIVES

Student athletes - be sure to monitor the NCAA website (http://www.ncaaclearinghouse.net)for current information on eligibility requirements. You are responsible for making sure you are taking classes that will meet their requirements.

N PEER TO PEER - Online Credit .50/sem (9-12)

The Peer to Peer class provides opportunities for general education students to learn to relate to people with special needs and develop an increased understanding of individual differences. Peer mentors support students with special needs and are asked to model and reinforce age appropriate behavior, socialization, independence, and life skills. In addition to being a mentor, role model, and friend, they will assist the student with such things as appropriate classroom behavior, organization of assignments and supplies, and focusing on what the teacher is saying. Mentors will be with their assigned student for at least one scheduled class period each day, except for training day. On training day, students will learn about various disabilities, stereotypes, breaking down barriers, developing peer mentor skills, and many other topics. In addition to the academic content of the course, there is ample time for the mentor to apply what they have learned as they become involved in the life of another student. Our goal is to spread awareness not only to students in the Peer to Peer course but to the whole school community. This course may be repeated for credit.

Work Based Education (N)

The co-op's listed are the traditional ones we offer,however, there are many other ones available if you qualify. To check to see if you qualify, see Mrs. Pietrantonio in the spring before your senior year.

(G) Accounting Co-op 1601 Credit 1.00 per semester (12)
(Co-operative Program with Industry)
Prerequisite: Accounting I and Accounting II. Student may be enrolled in Accounting II and Co-op concurrently. Juniors must sign-up for this the year BEFORE in order to pre-qualify and set up a site. Students must provide their own transportation.Students will be working at a local business for two hours per day (block). This course will provide a very worthwhile experience to the student that cannot be provided in school. Upon completion of the course, the student will have gained experience that will be an invaluable asset as far as future work in the industry, or in advanced studies in college.

(N) Engineering Co-op 1801 Credit 1.00 per semester (12)
(Co-operative Program with Industry)
Prerequisite: Advanced math classes and advanced science classes, two credits minimum. Student may be enrolled in one advanced class and Co-op concurrently. Juniors must sign-up for this the year BEFORE in order to pre-qualify and set up a site. Students must provide their own transportation. This course will provide a very worthwhile experience to the student that cannot be provided in school. Students will be working at a local business for two hours per

day (block). Upon completion of the course, the student will have gained experience that will be an invaluable asset as far as future work in the industry, or in advanced studies in college.

(N) Computer Co-op 1701 Credit 1.00 per semester (12)
(Co-operative Program with Industry)
Prerequisite: Advanced computer courses, two credits minimum. Student may be enrolled in one advanced class and Co-op concurrently. Juniors must sign-up for this the year BEFORE in order to pre-qualify and set up a site. Students must provide their own transportation. This course will provide a very worthwhile experience to the student that cannot be provided in school. Students will be working at a local business for two hours per day (block). Upon completion of the course, the student will have gained experience that will be an invaluable asset as far as future work in the industry, or in advanced studies in college.

DUAL ENROLLMENT OPTIONS

The following Bay Classes will be offered on-site at IMHS during the 2023-2024 school year.

Rhet. and Comp. (Term 1) with Research Writing being offered for (Term 2).

Rhet and Comp

This course is designed to help students develop their writing, reading, and thinking skills. Major emphasis is on writing and the writing process. Students will be assigned a variety of both formal and informal writings in expository, narrative, and persuasive modes. In addition, students will be expected to respond in writing to a variety of readings. Although instruction in grammar and mechanics is provided, students are expected to enter the course with a firm foundation in basic writing skills. Student papers will often be used to illustrate writing techniques. The writing lab will provide students with experience in using computers as a writing tool. Prerequisite: Bay College Testing requirements (PSAT, SAT of 480, or Bay Placement exam)

Research Writing

Research Writing provides instruction and practice in writing interesting, informative, and evaluative college research papers. Students will conduct library research, acquaint themselves thoroughly with a narrow topic of their choice, devise appropriate thesis statements, and develop their papers with material from a variety of authoritative sources using proper documentation. Prerequisite: Rhet and Comp

Intro to Psych

This course introduces the student to the major ideas, concepts, methods, and principles in contemporary psychology with a special focus on psychology as a science. As a science that

examines behavior and mental processes, psychology includes topics such as research methods, neurological bases of behavior, sensing and perceiving the physical world, states of consciousness, learning, emotion and its display, relationships between stress and ehealth, higher cognitive processes such as memory and motivation, development, differing view of personality and its assessment, abnormal behavior and its treatment, social thinking, social influence, and social relations. Prerequisite: PSAT/SAT evidence-based Reading and Writing 480

Sociology

This is a social science elective which will encourage a better understanding of the dimensions of the human experience and the commonalities that knit all people together. This course will explore the beliefs that distinguish cultures and societies from one another. Understanding the dimensions stimulates dialogue about solutions to many complex social problems. We hope to prepare students to live in a diverse world and pluralistic community and to prepare them for citizenship in both the local and global community. No prerequisite

Accounting I

This course introduces concepts and techniques basic to the solution of record keeping problems of a business enterprise. It deals with the methods of recording, reporting, and interpreting the financial data of the business unit. Topics include adjusting entries, closing entries, cash control, receivables, inventory, fixed assets, and current liabilities. Prerequisite PSAT/SAT Evidence-Based Reading and Writing 480 and Math 480

Accounting II

This course covers accounting for corporations, investments, and cash flows. In addition, the students are introduced to managerial accounting concepts. Topics include standard costs, job and process costing, budgeting and financial statement analysis. "C" or better in Accounting I

Students wishing to dual enroll in other classes should schedule an appointment with the School Counselor to discuss their options.

Specials/Elective/Non Essential (Traditional and Non-Traditional) (ONLINE)

These specific online virtual courses are non-essential and available to all traditional and non traditional students enrolled through Iron Mountain Public Schools. These courses below are an alternative and exchange to any Specials/Elective/Non Essential (Traditional and Non-Traditional). Online Virtual Courses Generate a Course Grade, Credit, Course Completion, and FTE.

Specials/Elective/Non-Essential courses will be provided by Edgenuity. Below is a list of available options adapted from the Egentuity course catalog. Upon request and approval, Edgenuity also offers Advanced Placement, Honors, and Credit Recovery courses. Students interested in taking any online virtual course must

see the Guidance Counselor for the registration materials. Contact Guidance Secretary: Katharine Barnes barnesk@imschools.org

*ART HISTORY 1 (Semester or Full Year, **Credit**: 0.5 or 1.0)*
Introducing art within historical, social, geographical, political, and religious contexts for understanding art and architecture through the ages, this course offers high school students an in-depth overview of art throughout history, with lessons organized by chronological and historical order and world regions..

*BUSINESS COMPUTER INFORMATION SYSTEMS (Full Year, **Credit**: 1.0)*
Explores the use of technology applications in both business and personal situations: communication, business technology, word processing, spreadsheet, and database applications, telecommunications, desktop publishing, and presentation technology, computer networks, and computer operating systems.

*CAREER MANAGEMENT (Semester, **Credit**: 0.5)*
Assists students in their preparation for career selection. The course is designed to improve workforce skills needed in all careers including communication, leadership, teamwork, decision making, problem solving, goal setting and time management. Students complete activities that help identify personal interests, aptitudes, and learning styles.

*CAREER EXPLORATION (Semester or Full Year, **Credit**: 0.5 or 1.0)*
This course prepares high school students to make informed decisions about their future academic and occupational goals. Through direct instruction, interactive skill demonstrations, and practice assignments, students learn how to assess their own skills and interests, explore industry clusters and pathways, and develop plans for career and academic development.

*CAREER PLANNING & DEVELOPMENT (Semester or Full Year, **Credit**: 0.5 or 1.0)*
Introducing high school students to the working world, this course provides the knowledge and insight necessary to compete in today's challenging job market. This relevant and timely course helps students investigate careers as they apply to personal interests and abilities, develop the skills and job search documents needed to enter the workforce, explore the rights of workers and traits of effective employees, and address the importance of professionalism and responsibility as careers change and evolve.

*CONTEMPORARY HEALTH (Semester, **Credit**: 0.5)*
This high-school health offering examines and analyzes various health topics. It places alcohol use, drug use, physical fitness, healthy relationships, disease prevention, relationships and mental health in the context of the importance of creating a healthy lifestyle. Throughout the course, students examine practices and plans they can implement in order to carry out a healthy lifestyle, and the consequences they can face if they do not follow safe practices.

*FOOD SAFETY AND SANITATION (Semester, **Credit**: 0.5)*
Covers the principles and practices of food safety and sanitation that are essential in the hospitality industry for the protection and well-being of staff, guests and customers. The course provides a systems approach to sanitation risk management and the prevention of food contamination by emphasizing the key components of the Hazard Analysis Critical Control Point (HACCP) food safety system.

*FORENSICS: USING SCIENCE TO SOLVE A MYSTERY (Semester, **Credit**: 0.5)*
Provides an overview of modern-day forensic science careers at work using science concepts to collect and analyze evidence and link evidence to the crime and suspects in order to present admissible evidence in courts of law. Projects in this course include simulated crime-scene investigation, actual DNA separation, development of a cybersecurity plan, and the identification of specific forensic skills used during the course of a very large murder case.

*FOUNDATIONS OF PERSONAL WELLNESS (Semester or Full Year, **Credit**: 0.5 or 1.0)*
Exploring a combination of health and fitness concepts, this comprehensive and cohesive course explores all aspects of wellness. Designed for high school students, coursework uses pedagogical

planning to ensure that students explore fitness and physical health and encourages students to learn about the nature of social interactions and how to plan a healthy lifestyle.

*HEALTH SCIENCE CONCEPTS (Semester or Full Year, **Credit**: 0.5 or 1.0)*
This course introduces high school students to the fundamental concepts of anatomy and physiology—including the organization of the body, cellular functions, and the chemistry of life. Students investigate basic medical terminology as well as human reproduction and development. Students are introduced to these fundamental health science concepts through direct instruction, interactive tasks, and practice assignments.

*HEALTHY LIVING (Full Year, **Credit**: 1.0)*
Encouraging students to make responsible, respectful, informed, and capable decisions about topics that affect the well-being of themselves and others, this high school course provides students with comprehensive information they can use to develop healthy attitudes and behavior patterns.

*INTRODUCTION TO ART (Semester or Full Year, **Credit**: 0.5 or 1.0)*
Covering art appreciation and the beginning of art history, this course encourages students to gain an understanding and appreciation of art in their everyday lives. Intro to Art provides an overview of many introductory themes: the definition of art, the cultural purpose of art, visual elements of art, terminology and principles of design, and two- and three-dimensional media and techniques.

*INTRODUCTION TO BUSINESS (Semester or Full Year, **Credit**: 0.5 or 1.0)*
Students learn the principles of business using real-world examples.This course covers an introduction to economics, costs and profit, and different business types. Students are introduced to techniques for managing money, personally and as a business, and taxes and credit; the basics of financing a business; how a business relates to society both locally and globally; how to identify a business opportunity; and techniques for planning, executing, and marketing a business to respond to that opportunity.

*INTRODUCTION TO HEALTH SCIENCE (Semester or Full Year, **Credit**: 0.5 or 1.0)*
This high school course introduces students to a variety of healthcare careers, as they develop the basic skills required in all health and medical sciences. In addition to learning the key elements of the U.S. healthcare system, students learn terminology, anatomy and physiology, pathologies, diagnostic and clinical procedures, therapeutic interventions, and the fundamentals of medical emergency care.

*INTRODUCTION TO INFORMATION TECHNOLOGY (Semester or Full Year, **Credit**: 0.5 or 1.0)*
This course introduces students to the essential technical and professional skills required in the field of Information Technology. Through hands-on projects and written assignments, students Career and Technical Education Courses gain an understanding of the operation of computers, computer networks, Internet fundamentals, programming, and computer support. Students also learn about the social impact of technological change and the ethical issues related to technology. Throughout the course, instructional activities emphasize safety, professionalism, accountability, and efficiency for workers within the field of IT

*KEYBOARDING AND APPLICATIONS (Semester, **Credit**: 0.5)*
This course teaches students keyboarding skills, technical skills, effective communication skills, and productive work habits. Students learn proper keyboarding techniques. Once students have been introduced to keyboarding skills, lessons include daily practice of those skills.

*LIFETIME FITNESS (Semester or Full Year, **Credit**: 0.5 or 1.0)*
Exploring fitness topics such as safe exercise and injury prevention, nutrition and weight management, consumer product evaluation, and stress management, this course equips high school students with the skills they need to achieve lifetime fitness. Lifetime Fitness encourages students to assess individual fitness levels according to the five components of physical fitness: cardiovascular health, muscular strength, muscular endurance, flexibility, and body composition.

*MEDICAL TERMINOLOGY (Semester or Full Year, **Credit**: 0.5 or 1.0)*

This course introduces students to the structure of medical terms, plus medical abbreviations and acronyms. The course allows students to achieve comprehension of medical vocabulary appropriate to health care settings, medical procedures, pharmacology, human anatomy and physiology, and pathology.

*PERSONAL FINANCE (Semester, **Credit**: 0.5)*
This introductory finance course teaches what it takes to understand the world of finance and make informed decisions about managing finances. Students learn more about economics and become more confident in setting and researching financial goals as they develop the core skills needed to be successful.

*PHARMACY TECHNICIAN (Full Year, **Credit**: 1.0)*
This course prepares students for employment as a Certified Pharmacy Technician (CPhT) and covers the skills needed for the pharmacy technician field. Students learn the basics of pharmacy assisting, including various pharmacy calculations and measurements, pharmacy law, pharmacology, medical terminology and abbreviations, medicinal drugs, sterile techniques, USP 795 and 797 standards, maintenance of inventory, patient record systems, data processing automation in the pharmacy, and employability skills.

*SOCIOLOGY (Semester, **Credit**: 0.5)*
Providing insight into the human dynamics of our diverse society, this is an engaging course that delves into the fundamental concepts of sociology. This course covers cultural diversity and conformity, basic structures of society, individuals and socialization, stages of human development as they relate to sociology, deviance from social norms, social stratification, racial and ethnic interactions, gender roles, family structure, the economic and political aspects of sociology.

*STATISTICS (Semester or Full Year, **Credit**: 0.5 or 1.0)*
Major topics of study include exploring one-and two-variable data, sampling, experimentation, probability, sampling distributions, and statistical inference. These topics are organized into three big ideas: variation and distribution, patterns and uncertainty, databased predictions, decisions, and conclusions.

*TECHNOLOGY AND BUSINESS (Full Year, **Credit**: 1.0)*
This course teaches students technical skills, effective communication skills, and productive work habits needed to make a successful transition into the workplace or postsecondary education. In this course, students gain an understanding of emerging technologies, operating systems, and computer networks. In addition, they create a variety of business documents.

The following specific Online Virtual Courses Generate a Course Grade, Course Completion and FTE. Computers and District filtered internet service furnished and available. Only the Online Virtual Course generates Course Grade, Credit, Course Completion and FTE.

The following specific Online Virtual Courses have an Optional Extended Learning Opportunity (ELO) component with transportation available upon request. Please see ELO Transportation Documentation. Optional Extended Learning Opportunity components are OPTIONAL and do not generate grade, credit, course completion or FTE.

Online Classes can be taken once. Multiple levels of certain courses are offered. Materials for your online course are available within the virtual environment. Computers and District filtered internet service furnished.

Michigan Certified Teachers of Record are responsible for the content, delivery, quality and assessment components of the online virtual courses within the established time frame.

ONLINE VIRTUAL COURSES are offered through self-scheduled learning where pupils have some control over the time, location, and pace of their education (non traditional) OR at a supervised school facility during the day as a scheduled class period (traditional) per Michigan's Pupil Accounting Manual.

If interested in any Online Virtual course and/or the Optional ELO component, contact Student Services. Katharine Barnes barnesk@imschools.org

Middle and High School ELO times on Thursday correspond to school class periods and are as follows: 1st ELO 9:00-10:00 2nd ELO 10:15-11:15, 3rd ELO 11:45-12:45, 4th ELO 1:00-2:00, and 5th ELO 2:15-3:15 as specified below for each class.

PHYSICAL EDUCATION

Physical Education and Health 9 (Online)
08113
Grade: 9
Online Virtual Course Vendor: Google Classrooms and Edmentum
Online Virtual Course Term: Semester or Full Year
Online Virtual Course Credit: 0.5 or 1.0 (Students can take semester or entire year)
Optional ELO (non credit, non grade, non course completion, non FTE generating) **Location:** East
Optional ELO (non credit, non grade, non course completion, non FTE generating) **Time:** Thursday 12:30-1:45

Teacher of Record: Matt Wonders
This health and fitness course combines the Health and Fitness components to cover topics like nutrition, stress management, substance abuse prevention, disease prevention, active fitness, physical activity, and exercise guidelines with the intention of conveying the importance of life-long wellness habits. This is a course that covers standards for High School and does not have any prerequisites.

Physical Education and Health 10 (Online)
08113
Grade: 10
Online Virtual Course Vendor: Google Classrooms and Edmentum
Online Virtual Course Term: Semester or Full Year
Online Virtual Course Credit: 0.5 or 1.0 (Students can take semester or entire year)
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Physical Education and Health 11 (Online)
08113
Grade 11
Online Virtual Course Vendor: Google Classrooms and Edmemtum
Online Virtual Course Term: Semester or Full Year
Online Virtual Course Credit: 0.5 or 1.0 (Students can take semester or entire year)
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Physical Education and Health 12 (Online)
08113
Grade 12
Online Virtual Course Vendor: Google Classrooms and Edmentum
Online Virtual Course Term: Semester or Full Year
Online Virtual Course Credit: 0.5 or 1.0 (Students can take semester or entire year)
Optional ELO (non credit, non grade, non course completion, non FTE generating) **Location:** East
Optional ELO (non credit, non grade, non course completion, non FTE generating) **Time:** Thursday 12:40-1:45

Teacher of Record: Matt Wonders
This health and fitness course combines the Health and Fitness components to cover topics like nutrition, stress management, substance abuse prevention, disease prevention, active fitness, physical activity, and exercise guidelines with the intention of conveying the importance of life-long wellness habits. This is a course that covers standards for High School and does not have any prerequisites.

MUSIC

Music 9 (online)
05139
Grade: 9
Online Virtual Course Vendor: Google Classrooms
Online Virtual Course Term: Semester or Full Year
Online Virtual Course Credit: 0.5 or 1.0 (Students can take semester or entire year)
Optional ELO (non credit, non grade, non course completion, non FTE generating) **Location:** East
Optional ELO (non credit, non grade, non course completion, non FTE generating) **Time:** Time: Thursday 9:00-1:45

Teacher of Record: Dawn Kranz
This Music course focuses on building students' understanding of the fundamentals of music and This Music Appreciation course focuses specifically on students' appreciation of music. They are designed to help students explore the world of music and to develop an understanding of the importance of music in their lives.This is a continuation course that covers standards for High School and does not have any prerequisites.

Music 10 (online)
05139

Grade: 10
Online Virtual Course Vendor: Google Classrooms
Online Virtual Course Term: Semester or Full Year
Online Virtual Course Credit: 0.5 or 1.0 (Students can take semester or entire year)
Optional ELO (non credit, non grade, non course completion, non FTE generating) **Location:** East
Optional ELO (non credit, non grade, non course completion, non FTE generating) **Time:** Time: Thursday 9:00-1:45

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Music 11 (online)
05139
Grade: 11
Online Virtual Course Vendor: Google Classrooms
Online Virtual Course Term: Semester or Full Year
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HOME ECONOMICS

Culinary Arts 9 (online)
16054
Grade: 9
Online Virtual Course Vendor: Google Classrooms and Edmentum

Online Virtual Course Term: Semester or Full Year
Online Virtual Course Credit: 0.5 or 1.0 (Students can take semester or entire year)
Optional ELO (non credit, non grade, non course completion, non FTE generating) **Location:** East
Optional ELO (non credit, non grade, non course completion, non FTE generating) **Time:** Thursday 10:30-11:45

Teacher of Record: Samantha Roberts
Intro to Culinary Arts & Nutrition provides an understanding of food's role in society, instruction in how to plan and prepare meals, experience in the proper use of equipment and utensils, and background on the nutritional needs and requirements for healthy living. Students will explore current career opportunities in the food industry.This is a course that covers standards for High School and does not have any prerequisites.

Culinary Arts 10 (online)
16054
Grade: 10
Online Virtual Course Vendor: Google Classrooms and Edmentum
Online Virtual Course Term: Semester or Full Year
Online Virtual Course Credit: 0.5 or 1.0 (Students can take semester or entire year)
Optional ELO (non credit, non grade, non course completion, non FTE generating) **Location:** East
Optional ELO (non credit, non grade, non course completion, non FTE generating) **Time:** Thursday 10:30-11:45

Teacher of Record: Ruth Truscott
Intro to Culinary Arts & Nutrition provides an understanding of food's role in society, instruction in how to plan and prepare meals, experience in the proper use of equipment and utensils, and background on the nutritional needs and requirements for healthy living. Students will explore current career opportunities in the food industry.This is a course that covers standards for High School and does not have any prerequisites.

Culinary Arts 11 (online)
16054
Grade: 11
Online Virtual Course Vendor: Google Classrooms and Edmentum
Online Virtual Course Term: Semester or Full Year
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ART

Art 9 (online)

05189

Grade: 9

Online Virtual Course Vendor: Google Classrooms and Edmentum
Online Virtual Course Term: Semester or Full Year
Online Virtual Course Credit: 0.5 or 1.0 (Students can take semester or entire year)
Optional ELO (non credit, non grade, non course completion, non FTE generating) **Location:** East
Optional ELO (non credit, non grade, non course completion, non FTE generating) **Time:** Thursday 2:00-3:15

Teacher of Record: Kristin Stanchina
This art appreciation course introduces students to the many forms of art from ancient times to present day and helps them form a framework through which they can judge and critique art of various ages and cultures. This is a course that covers standards for High School and does not have any prerequisites.

Art 10 (online)

05189
Grade: 10
Online Virtual Course Vendor: Google Classrooms and Edmentum
Online Virtual Course Term: Semester or Full Year
Online Virtual Course Credit: 0.5 or 1.0 (Students can take semester or entire year)
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Introduction to Cinematography 9 (online)
05168
Grade: 9
Online Virtual Course Vendor: Google Classrooms and Edmentum
Online Virtual Course Term: Semester or Full Year
Optional ELO (non credit, non grade, non course completion, non FTE generating) Location: East,
Optional ELO (non credit, non grade, non course completion, non FTE generating) Time: Thursday 12:30-1:45

Teacher of Record: Kristin Stanchina

This courses emphasize the application of the fundamental processes of artistic expression. These course include the history and development of cinema, television, and video production. Students explore a range of skills needed to explore contemporary social, cultural, and political issues and creatively solve problems within and through cinematic or video productions. Students engage in critiques of their cinematic or video productions, those of others, and productions of professional cinematographers or video artists for the purpose of reflecting on and refining work for presentation.

Introduction to Cinematography 10 (online)
05168
Grade: 10
Online Virtual Course Vendor: Google Classrooms and Edmentum
Online Virtual Course Term: Semester or Full Year
Optional ELO (non credit, non grade, non course completion, non FTE generating) Location: East,
Optional ELO (non credit, non grade, non course completion, non FTE generating) Time: Thursday 12:30-1:45

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Introduction to Cinematography 11 (online)
05168
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Online Virtual Course Vendor: Google Classrooms and Edmentum
Online Virtual Course Term: Semester or Full Year
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TECHNOLOGY

Educational Technology 9 (online)
10001
Grade: 9
Online Virtual Course Vendor: Google Classrooms and Code.org
Online Virtual Course Term: Semester or Full Year

Online Virtual Course Credit: 0.5 or 1.0 (Students can take semester or entire year)
Optional ELO (non credit, non grade, non course completion, non FTE generating) **Location:** East
Optional ELO (non credit, non grade, non course completion, non FTE generating) **Time:** Thursday 9:00-10:15

Teacher of Record: Jeff Christiansen
This course introduces or expands students' knowledge of computers, the functions and uses of computer technology, the language used in the industry, and possible applications of various computer-based technologies. Students are encouraged to explore legal and ethical issues associated with computer technology use, as well as how changes influence modern society. This is a course that covers standards for High School and does not have any prerequisites.

Educational Technology 10 (online)
10001
Grade: 10
Online Virtual Course Vendor: Google Classrooms and Code.org
Online Virtual Course Term: Semester or Full Year
Online Virtual Course Credit: 0.5 or 1.0 (Students can take semester or entire year)
Optional ELO (non credit, non grade, non course completion, non FTE generating) **Location:** East
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Educational Technology 11 (online)
10001
Grade: 11
Online Virtual Course Vendor: Google Classrooms and Code.org
Online Virtual Course Term: Semester or Full Year
Online Virtual Course Credit: 0.5 or 1.0 (Students can take semester or entire year)
Optional ELO (non credit, non grade, non course completion, non FTE generating) **Location:** East
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Educational Technology 12 (online)
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Grade: 12
Online Virtual Course Vendor: Google Classrooms and Code.org
Online Virtual Course Term: Semester or Full Year
Online Virtual Course Credit: 0.5 or 1.0 (Students can take semester or entire year)
Optional ELO (non credit, non grade, non course completion, non FTE generating) **Location:** East
Optional ELO (non credit, non grade, non course completion, non FTE generating) **Time:** Thursday 9:00-10:15

Teacher of Record: Jeff Christiansen
This course introduces or expands students' knowledge of computers, the functions and uses of computer technology, the language used in the industry, and possible applications of various computer-based technologies. Students are encouraged to explore legal and ethical issues associated with computer technology use, as well as how changes influence modern society. This is a course that covers standards for High School and does not have any prerequisites.

Introduction to Forensics 9 (online)
15055
Grade: 9
Online Virtual Course Vendor: Google Classrooms and Edmentum
Online Virtual Course Term: Semester or Full Year
Optional ELO (non credit, non grade, non course completion, non FTE generating) Location: East,
Optional ELO (non credit, non grade, non course completion, non FTE generating) Time: Thursday 11:45-12:45

Teacher of Record: Jeff Christiansen
This courses provide an overview of the theoretical understanding and practical application of forensic science techniques. It explores the applied science and the fields of biology, chemistry, physics, and crime science investigation. Topics typically covered may include genetics, anthropology, toxicology, entomology, ballistics, pathology, computer forensics, fire debris and trace evidence among others. This course covers standards for Middle school and does not have any prerequisites.

Introduction to Forensics 10 (online)
15055
Grade: 10
Online Virtual Course Vendor: Google Classrooms and Edmentum
Online Virtual Course Term: Semester or Full Year
Optional ELO (non credit, non grade, non course completion, non FTE generating) Location: East,
Optional ELO (non credit, non grade, non course completion, non FTE generating) Time: Thursday 11:45-12:45

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Introduction to Forensics 11 (online)
15055
Grade: 11
Online Virtual Course Vendor: Google Classrooms and Edmentum
Online Virtual Course Term: Semester or Full Year
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Life Skills 9 (online)
19257
Grade: 9
Online Virtual Course Vendor: Google Classrooms and Edmentum
Online Virtual Course Term: Semester or Full Year
Optional ELO (non credit, non grade, non course completion, non FTE generating) Location: East,
Optional ELO (non credit, non grade, non course completion, non FTE generating) Time: Thursday 2:15-3:15

Teacher of Record: Ruth Truscott
The course provides students with information about a wide range of subjects to assist them in becoming wise consumers and productive adults. These courses often emphasize process skills, including goal-setting, decisionmaking, and other topics such as the setting of priorities, money and time management, interpersonal relationships, and the development of the self. Additionally, specific topics such as wellness, nutrition, preparing food, selecting clothing and building a wardrobe.. This is a course that covers standards in High School and does not have any prerequisites.

Life Skills 10 (online)
19257
Grade: 10
Online Virtual Course Vendor: Google Classrooms and Edmentum
Online Virtual Course Term: Semester or Full Year
Optional ELO (non credit, non grade, non course completion, non FTE generating) Location: East,
Optional ELO (non credit, non grade, non course completion, non FTE generating) Time: Thursday 2:15-3:15

Teacher of Record: Ruth Truscott
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Life Skills 11 (online)
19257
Grade: 11
Online Virtual Course Vendor: Google Classrooms and Edmentum
Online Virtual Course Term: Semester or Full Year
Optional ELO (non credit, non grade, non course completion, non FTE generating) Location: East,

Optional ELO (non credit, non grade, non course completion, non FTE generating) Time: Thursday 2:15-3:15

Teacher of Record: Samantha Roberts
The course provides students with information about a wide range of subjects to assist them in becoming wise consumers and productive adults. These courses often emphasize process skills, including goal-setting, decisionmaking, and other topics such as the setting of priorities, money and time management, interpersonal relationships, and the development of the self. Additionally, specific topics such as wellness, nutrition, preparing food, selecting clothing and building a wardrobe.. This is a course that covers standards in High School and does not have any prerequisites.

Life Skills 12 (online)
19257
Grade: 12
Online Virtual Course Vendor: Google Classrooms and Edmentum
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Optional ELO (non credit, non grade, non course completion, non FTE generating) Location: East,
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FOREIGN LANGUAGE

Spanish 1 (Online)
24052
Grade: 9-12
Online Virtual Course Vendor: Google Classroom and Lincoln Learning
Online Virtual Course Term: Semester or Full Year
Online Virtual Course Credit: 0.5 or 1.0 (Students can take semester or entire year)
Optional ELO (non credit, non grade, non course completion, non FTE generating) **Location:** East
Optional ELO (non credit, non grade, non course completion, non FTE generating)

Teacher of Record: Heather Bartman
Designed to introduce and/or expand students to Spanish language and culture, Students learn how to communicate authentically in Spanish by interpreting, comprehending, and practicing a variety of vocabulary. Students will be introduced to the relationships among the products, practices, and perspectives of Spanish-speaking cultures. This is a course that covers standards for High School and does not have any prerequisites.

Spanish II (Online)
24053
Grade: 9-12
Online Virtual Course Vendor: Google Classroom and Lincoln Learning
Online Virtual Course Term: Semester or Full Year
Online Virtual Course Credit: 0.5 or 1.0 (Students can take semester or entire year)
Optional ELO (non credit, non grade, non course completion, non FTE generating) **Location:** East
Optional ELO (non credit, non grade, non course completion, non FTE generating)

Teacher of Record: Heather Bartman
Designed to introduce and/or expand students to Spanish language and culture, Students learn how to communicate authentically in Spanish by interpreting, comprehending, and practicing a variety of vocabulary. Students will be introduced to the relationships among the products, practices, and perspectives of Spanish-speaking cultures. This is a continuation course that covers standards for High School and has a Spanish I prerequisite.

Spanish III (Online)
24054
Grade: 10-12
Online Virtual Course Vendor: Google Classroom and Lincoln
Online Virtual Course Term: Semester or Full Year
Online Virtual Course Credit: 0.5 or 1.0 (Students can take semester or entire year)
Optional ELO (non credit, non grade, non course completion, non FTE generating) **Location:** East
Optional ELO (non credit, non grade, non course completion, non FTE generating)

Teacher of Record: Heather Bartman
Designed to introduce and/or expand students to Spanish language and culture, Students learn how to communicate authentically in Spanish by interpreting, comprehending, and practicing a variety of vocabulary. Students will be introduced to the relationships among the products, practices, and perspectives of Spanish-speaking cultures. This is a continuation course that covers standards for High School and has a Spanish I & II prerequisites.

ACADEMIC COACHING ONLINE (OL)

Teacher of Record: Samantha Roberts
Description: Providing students with remediation and interventions for core essentials. Focus will be on helping students examine their learning styles and assisting with current difficulties or barriers to academic success and supporting their online learning. This will be done through individual direct instruction/academic coaching. Resources for parents on how to assist their child with academic issues will be available. There will also be time for parent discussion and networking regarding academic concerns and sharing of ideas.

DICKINSON-IRON INTERMEDIATE SCHOOL DISTRICT
1074 Pyle Drive, Kingsford, MI 49802-4494
Wendy L. Warmuth, Superintendent
Phone: 906-779-2690 Fax: 906-779-2669 Website: www.diisd.org
Michael Mulligan, Technical Education Director
906-779-2697

Dickinson-Iron Technical Center

Course Descriptions

2023-2024

UPDATED September 11, 2023

It is the policy of the Dickinson-Iron ISD that no person shall on the basis of race, color, religion, national origin or ancestry, gender, age, disability, height, weight, or marital status be excluded from participation in, be denied the benefits of, or be subjected to discrimination during any program, activity, service or in employment. For information contact either the Director of Special Education, DIISD, 1074 Pyle Dr., Kingsford, MI 49802 (906) 779-2690, or Director of Technical Education, DIISD, 300 North Blvd., Kingsford, MI 49802 (906) 779-2697.

Health Occupations – Core - Blocks 1 & 2 Prerequisite: None Health Occupations at the Technical Education Center provides students with a core of medical theory and skills needed to enter the healthcare profession. Core tasks that all students study include: medical ethics, safety, asepsis, body structure and function, assessment, vital signs, communication, emergency procedures (including CPR certification), transporting/transferring/ambulating/positioning, nutrition, hygiene/personal care/comfort, basic medical terminology, medical math and career exploration. Students will experience work- based learning/clinical experiences that are completed in nursing

homes, hospitals, and private health care offices throughout our community. Students are responsible for their own transportation to and from clinical sites (in some cases existing bus routes may be utilized). This course prepares students both for entry-level job positions and college programs. Students enrolling in this course are required to under-go a **background check** to verify their eligibility to participate in clinical placements and/or to pursue a career in the health field. In addition students must provide proof they are free of active tuberculosis (**recent TB test**) and have up to date **immunizations**. Some facilities now mandate, prior to clinical placement, students receive a **full drug screen**. If required, the cost of drug screens and background checks will be covered by the Technical Center. Dual enrollment credit is available to students who enroll with Bay College. Specific criteria must be met to earn this credit. **Articulated credit available. Certifications**: CPR, First Aid **Bay College Credits available**

Health Occupations – Medical Terminology - Block 3 Prerequisite: None Health Occupations – Medical Terminology at the Technical Education Center is a college level body systems medical terminology course. Medical terminology is required to interact and function clinically in the healthcare field. This course is designed to provide a thorough investigation into suffixes, prefixes, and word components. Students will be able to utilize medical terminology as it relates to anatomical structures, pathophysiology and the general healthcare field. Dual enrollment credits are available to students who register with Bay College. Specific criteria must be met to earn these credits. **Articulated credit available. Bay College Credits available**

Health Occupations III Third course of study is open to students with permission of instructor and Tech Center Principal. Students may engage in advanced study working toward a specific health care certification. Students may also be place in a workplace learning site.

Construction Trades I & II – Blocks 1, 2 & 3 Prerequisite: None This Course provides students with a wide variety of hands-on experiences, all related to the multi-faceted construction industry. Students have opportunities to use a wide array of power and hand-held tools. Student will be able to learn and practice rough and finish carpentry; basic plumbing and electrical installation; insulation, drywall hanging and finishing; building codes and laws; and general construction safety inside our new Trades Center. Students will be able to practice on the grounds of the Tech Center leveling and layout instruments; proper installation techniques of both concrete flat work and masonry. Students will learn work place safety, how to read architectural drawings, construction materials, construction tools and equipment, common construction practices, codes and laws, heavy equipment/civil construction techniques, and construction business management. Students in their second year will have the opportunity to be involved in work-based learning to enhance their skills in different trades. Students are prepared for entry-level employment skills in the construction field, entering a trade school apprentice program and for participation in post-secondary construction related programs such as construction management, construction engineering, architecture or becoming a licensed contractor. **Articulated credit available. Certifications: OSHA10**

Construction Trades III Third course of study is open to students with permission of instructor and Tech Center Principal. Students may engage in advanced study working toward pre-apprenticeship training in a construction related field or work toward a state license exam. Students may be placed in a workplace site.

Computer Networking and Security I Block 1 & 2 Prerequisite: None This course aligns with college curriculum in Networking and Cyber Security. It will introduce students to computer concepts in personal computer hardware and software, internet, security, networks and ethics. Students will learn how to use of computer technology for professional and personal use and the skills needed to install, configure, and service hardware, operating systems, and applications. Students will also learn to configure stand alone or networked computer for reliability and security. **Articulated credit available. Certifications**: A+ Certification **Up to 8 Bay College Credits available.**

Computer Networking and Security II Blocks 1 & 2 Prerequisite: B or better in Computer Networking and Security I or Instructor Permission. The course validates the knowledge and skills of networking professionals. It is a vendor-neutral certification that recognizes a technician's ability to describe the features and functions of networking components and to install, configure and troubleshoot basic networking hardware, protocols and services. This course continues builds upon students' knowledge in computer networking and communication. It provides theoretical knowledge exploring both the hardware necessary to support computer networks and the software needed to utilize and secure those networks. Students will have hands on training in designing, installing, and managing network devices. This includes Basic network topologies, network protocols, and local and wide-area networks. They will learn to troubleshoot problems across networks. Major topics include principles of Wide Area Networks, IP and TCP, routers, routing protocols and configurations, virtual LANs, network management, subnetting, design of LANs and WANs, and security issues. Students completing this course will prepare to take entry level certification exams.

Students in this class are expected to compete in BPA, either Computer Networking or Cisco Administration. Articulated credit available. Up to 8 Bay College Credits available.

Certifications: Network+ and CCNA,
Route/Switch

Computer Networking and Security III Third course of study is open to students with permission of instructor and Tech Center Principal. Students may engage in advanced study working toward CISCO and other Industry certifications. Students may also be placed in a workplace learning site.

Students interested in Information Technology should consider the ***Dickinson-Iron Technical Early College program***. For more information see page 35 below.

C++ and Creation with Unreal Engine– Block 3 only Prerequisite: Algebra I This one year course will utilize game programing to develop the core skills needed to begin coding with the **C++ or C# formats** which are the two most popular programing languages used by professionals. Student's skills will be challenged by creating progressively complex games. The course will culminate with students creating one ambitious game project which will test their creativity and mastery of the curriculum. There are numerous lucrative employment opportunities for computer and gaming programmers. Students who continue their education in this area will benefit from the foundation this course provides as they prepare to acquire valuable certifications such as; CLA: C Programming Language Certified Associate, CPA: C++ Certified Associate Programmer, CPP: C++ Certified Professional Programmer. **Articulated credit available.**

Marketing & Entrepreneurship I, II – Block 1, 2 & 3 Prerequisite: None This is an innovative course designed for students with an interest in marketing and advertising. Instruction will include an introduction to the fundamental marketing concepts through a variety of marketing topics and activities. There will be a strong emphasis on employability skills and communication in the work force. Students will learn how products are developed, branded, and sold to businesses and consumers. Students will analyze industry trends and gain hands-on experience in the marketing of goods, services, and ideas. Students will be able to actively practice these theories through The Market Place (our school store). Topics covered will also include professionalism in the workplace, product planning and positioning, promotion, pricing, selling, economic issues, and the impact of technology on the marketplace. Guest speakers along with field trips will also service as a learning opportunity the students. An integral part of the program is participation in the school's DECA Chapter activities. DECA offers marketing students opportunities in leadership, community service, and competitive events. **Articulated credit available.**

Marketing & Entrepreneurship III Third course of study is open to students with permission of instructor and Tech Center Principal. Students may engage in advanced study including business management and entrepreneurship. Students will work toward a national retail certification. Students may also be placed in a workplace learning site.

Graphic Communications I, II, III – Blocks 1, 2 & 3 Prerequisite: None The Graphic Communications program at the Technical Education Center will prepare students for post-secondary college programs or entry into the workforce in the production printing industry. Students will be exposed to and learn foundational skills relative to computer layout and design, press operation, bindery work and customer service. This is an excellent course for male or female students interested in computers, computer graphics, advertising, newspaper work, commercial art, photography, digital photography, tele-finder communications, business communications and commercial production printing. With the advanced software provided in this program, students will be encouraged to use their creative skills in the design of advertisements, product labels, identity marks (logos), brochures, presentations etc. Students will also learn to edit and manipulate

photographs as standalone work or to include in their design projects. Projects will be completed for area business and organizations providing students firsthand experience working with clients. A variety of program related equipment and processes common to the design and print industry will be included. **Articulated credit available. Up to 8 Bay College Credits available.**

Graphic Communications III Third course of study is open to students with permission of instructor and Tech Center Principal. Students may engage in advanced study in graphic design including Adobe software. Students may also be placed in a workplace learning site.

Welding Technologies I & II– Blocks 1, 2, & 3 Prerequisite: None The Welding Technologies program at the Technical Education Center prepares students for entry level job skills in the Welding field or participation in a community or technical college program. The instructional format is "self-paced" thus allowing students to progress at their own speed. 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. New to the program are 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 including the completion of required welding operations, a required project and a project of the students choosing. Students enrolled as a second year student in the Welding Technologies program will receive advanced training in 5 welding processes and will participate in the completion of advanced projects. In some cases students will be encouraged to participate in advance student competitions. Students may also qualify for a work-based learning placement depending on their skill level and availability of placements. **Articulated credit available. Up to 8 Bay College Credits available. Certification:** AWS Certification Students interested in Welding should consider the ***Dickinson-Iron Technical Early College program***. For more information see page 35 below.

Welding Technologies III Third course of study is open to students with permission of instructor and Tech Center Principal. Students may engage in advanced study including fabrication and AWS advanced certifications. Students may also be place in a workplace learning site.

Automotive Technology – NATEF Maintenance and Light Repair-Block 1, 2 & 3 Prerequisite: None This program follows National Automotive Technicians Education Foundation (NATEF) standards for Maintenance and Light Repair. During the two year program students will learn shop and personal safety, tools and equipment, preparing vehicles for service and workplace employability skills. The program is broken down into modules to develop a general knowledge and understanding of the following topics: Engine Repair, Engine Performance, Suspension and Steering, Electrical systems. Upon completing of the two year program students will have the base knowledge to pursue further education in the auto repair industry. **Articulated credit available.**

Certifications: NATEF MLR

Automotive Technology III Third course of study is open to students with permission of instructor and Tech Center Principal. Students may engage in advanced study on one of the eight areas of Automotive Licensing. Students may also be place in a workplace learning site.

Dickinson – Iron Technical Early College

D. I. T. E. C.

The Dickinson-Iron Technical Early College is partnering with Bay College to offer students in the Welding, Electrical and Mechanical Systems in Industry, Health Occupations, and Information Technology programs an early college experience. DITEC is a grade 11-13 program. Students will complete some of their coursework at the Technical Center in grades 11 and 12 through articulated programs while continuing their required graduation classes at their local high school. They will complete their college requirements through Bay College. For more information please contact the Technical Center at 906-779-2697 or Bay College West at 906-302-3010.