

Saranac High School Course Descriptions

2016-17



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GRADUATION REQUIREMENTS

18 Michigan Merit Curriculum Credits

Based on Michigan Merit Curriculum established by the State of Michigan:

- | | |
|--|-------------|
| A. Language Arts (must include English 9, English 10, English 11 and English 12 or equivalent) | 4.0 Credits |
| B. Mathematics (must include Algebra I, Geometry, Algebra 2, and a 4 th math course Senior year. (See Math courses for senior math) | 4.0 Credits |
| C. Science (must include Biology, 10 th Grade Science, and one year of additional science) | 3.0 Credits |
| D. Social Studies (must include US History, World History, Government, and Economics) | 3.0 Credits |
| E. Physical Education | 0.5 Credit |
| F. Health | 0.5 Credit |
| G. Visual, Performing and Applied Arts | 1.0 Credit |
| H. World Language | 2.0 Credits |
| I. Students must also participate in some form of online learning experience during their high school career. | |

Class of 2017 and Beyond – 22 Credits to Graduate (16 MMC + 2 World Languages + 4 electives)

ADDITIONAL REQUIREMENTS:

- All students will be required to participate in the state required assessment process (currently the SAT/PSAT/M-Step). They will be expected to give a “good faith” effort. Not doing so will result in the loss of their eligibility to participate in the graduation ceremony.
- A semester class is equal to one-half credit. Students will receive high school credit along with college credit for the classes in which they are dual enrolled.
- All students must be enrolled in 6 classes each semester.
- A student may be granted credit for up two (2) for work-based learning or an unlimited number of E20/20 courses.
- The principal may substitute up to one credit for a student under the following circumstances:
 - The educational program for the student is clearly improved.
 - The total number of required credits is not changed.
 - The minimums as set by the State are met.

Physical Education Waiver

Many Saranac High School students participate in co-curricular and extra-curricular activities which require hours of physical activity on their part. In recognition of this, and to allow greater flexibility to students and parents in preparing for their high school careers as related to post-secondary plans, the following Physical Education waiver policy is in place: Students may waive the Saranac High School Physical Education graduation requirement under the following criteria: Medical waiver; two years of participation in interscholastic athletics (must participate in a full season in **two different school years**); two years of marching band; or one year of marching band and one year of interscholastic athletics (must participate in both for a full season in **two different school years**). They also must successfully pass a written exam.

A Physical Education waiver must be completed and approved prior to the students' first day of their senior year, or they will be placed in a Physical Education class regardless of their intent to participate in marching band or interscholastic athletics during their senior year. Students must be able to participate in at least 70% of the interscholastic athletic or marching band season, and be in good standing with the program in order to have the participation count towards their waiver requirement. A student's PE credit will be waived after meeting the marching or athletic requirement as well as passing the PE final exam.

HONORS DIPLOMA and DIPLOMA WITH HONORS

Graduating seniors who have attained a high scholastic achievement may earn either an "Honors Diploma" or a "Diploma with Honors" in a given area provided he/she meets the following criteria:

HONORS DIPLOMA

- a) Must have an overall grade point average of at least a 3.400.
- b) Mathematics - Algebra I, Algebra II, Geometry, and Pre-Calculus
- c) Science - Biology, 10th Grade Science and one additional year of science
- d) English - English 9, English 10, English 11, and one year of English not open to freshman and sophomores or the equivalent advanced courses.
- e) Two full credits of a foreign language in the same language.

DIPLOMA WITH HONORS

A student who does not take all of the courses needed to receive an "Honors Diploma" is eligible to receive a "Diploma with Honors" in an area if they have a GPA of 3.7 or better in a specific area

A. Diploma of Honors course criteria:

1. Fine Arts--four credits that include at least two areas.
2. Language Arts--five credits that include four English and one foreign language.
3. Science--four credits that include Biology, Chemistry, and Physics.
4. Mathematics--four credits that include Algebra I, Geometry, Algebra II, and Pre-Calculus.
5. Social Studies--four credits
6. Vocational Education--four credits.

VALEDICTORIAN AND SALUTATORIAN

a) **The valedictorian and salutatorian must meet the criteria for an "Honors Diploma."**

b) For the purpose of selecting the Valedictorian and Salutatorian, the G.P.A. will be averaged to the nearest 1/100 of a point.

TOP ACADEMIC STUDENTS:

Students will achieve this status by attaining a G.P.A. of 3.60 or higher through their first eleven semesters. Within the 3.6 - 4.0 range, there will be three levels of recognition:

| <u>GPA</u> | <u>STATUS</u> | <u>CORD</u> |
|-------------|-----------------|-------------|
| 3.6 – 3.74 | Cum Laude | Bronze |
| 3.75 – 3.89 | Magna Cum Laude | Silver |
| 3.90 – 4.00 | Summa Cum Laude | Gold |

Testing Out Policy

Students will be allowed to "Test Out" of courses according to the State Law and Saranac High School. See school administration for further information. Testing out will occur during the first 2 weeks prior to each semester. You may not test out of a course you are currently enrolled in or have taken in the past.

Repeating Classes

Students may repeat any previously passed class to earn a higher grade. The coursework will be completed through the E20/20 program on the student's own time. The lower grade will be replaced with a "R" for repeat and will not be counted toward the total graduation requirements or computed into the GPA. **A student who is repeating classes will not qualify for Valedictorian or Salutatorian honors.**

Advanced Placement

A weighted grading system is in effect for Advanced Placement (AP) courses to recognize the added rigor of these courses and provide incentive for students to undertake challenging courses. Students who have taken AP courses will have .50 added to their course grade for each semester the class is taken. This weighted system will only apply to the AP courses taught by Saranac High School teachers. Advanced Placement courses offer a national standardized test at the end of the yearlong course that may earn college credit for students.

NCAA Division I and II Eligibility Requirements

If you are planning to enroll in college as a freshman and you wish to participate in Division I or Division II athletics, you must be certified by the NCAA Initial-Eligibility Clearinghouse. This process usually begins in your junior year of high school. It is your responsibility to make sure the Clearinghouse has the documents it needs to certify you.

Registration materials and information are available at: www.ncaa.org.

Documents needed are:

1. Your completed and signed Student Release Form and fee.
2. Your official transcript mailed directly from every high school you have attended.
3. Your ACT or SAT scores.

| CORE UNITS REQUIRED FOR NCAA CERTIFICATION | | |
|--|------------|-------------|
| | Division I | Division II |
| English Core | 4 years | 3 years |
| Math Core (Algebra, Geometry, or Advanced Algebra) | 3 years | 2 years |
| Science Core (including at least one year of lab science) | 2 years | 2 years |
| Social Science Core | 2 years | 2 years |
| English, Math, Science | 1 year | 2 years |
| Additional Core | 2 years | 2 years |
| (English, Math, Science, Social Studies, World Languages, Philosophy, Nondoctrinal Religion) | 4 years | 3 years |
| Total Core Units | 16 | 14 |

Athletics must earn a sum of scores of at least 68 on the ACT or a combined score of at least 820 on the SAT. Division I: The minimum grade-point average in the 14 core courses and required ACT and SAT score vary according to the Initial-Eligibility Index below. This index applies to students enrolling as college freshmen during 1996-97 and thereafter, wishing to participate in Division I athletics.

Michigan Public Universities Admissions Expectations

The President's Council of 15 state universities has established the following core courses for college admissions in Michigan:

| | | |
|-----------------|---------|--|
| English | 4 years | |
| Mathematics | 3 years | Including Algebra II; 4 years strongly recommended |
| Science | 2 years | Physical/Biological Sciences; 3 years strongly recommended |
| Social Sciences | 3 years | History and Social Sciences; 1 year American History 1 year World History strongly recommended. |

The Council also strongly recommends the following:

| | |
|--------------------------|---------|
| Computer Literacy | 1 year |
| Fine and Performing Arts | 2 years |
| Foreign Language | 3 years |

Please refer to each college for foreign language requirements.

The Presidents Council also encourages Advanced Placement (AP) courses. Parents and students are strongly encouraged to seek out information regarding specific college/university recommendations regarding admission expectations early in each student's high school career.

Class of 2017 and Beyond - 12 classes each year for 6 Credits – Typical Schedule of Courses

Freshmen

- (2) English 9
- (2) Biology
- (2) US History/AP US History
- (2) Algebra 1
- (1) Health
- (1) Physical Education
- (2) Electives

Sophomores

- (2) English 10 or College Prep
- (2) World History/AP World History
- (2) Geometry
- (2) 10th Science
- (2) World Language
- (2) Electives

Juniors

- (2) English 11 or College Prep Eng.
- (2) Chemistry or Physics
- (2) Algebra II
- (1) Government/AP Gov't
- (1) Economics
- (2) World Languages
- (2) Electives

Seniors

- (2) English 12 or AP English or College Prep
- (2) Pre- Calculus or additional math course
- (8) Electives



ENGLISH 9 A and B

2 SEMESTERS

9

1 CREDIT

Prerequisite: None

Core English is an entry-level class to the language arts curriculum of Saranac High School. We have designed this course to evaluate and develop the skills and strategies necessary to prepare students for future high school course work. We understand that skills in reading, writing, speaking, researching, and studying are critical to the success of our students in the high school, and to that end, this course is designed to introduce, develop, and reinforce these skills. We will be using a varied reading list of fiction, non-fiction (textbooks from other core classes), poetry, drama, the Internet, newspapers and magazines. Students will be provided with extensive instruction in the use of skills and strategies in grammar, vocabulary development, reading, writing, studying, test taking, and organization. Evaluation will take a wide variety of forms with the goal to prepare students to demonstrate their knowledge using tests, writing assignments, public speaking, projects, productions, and personal reflection.

ENGLISH 10 A and B

2 SEMESTERS

10

1 CREDIT

Prerequisite: English 9

An in-depth study of American literature from pre-Civil War to the end of the twentieth century is accomplished through essays, journal writings, short stories and novels combined with writing persuasive essays, reflective essays and the research paper. To improve language skills, emphasis will be placed on vocabulary, writing, grammar, and oral presentations. This course will offer expanded opportunities to learn and practice essay strategies, including sentence/paragraph development. Technical, expository and narrative/description essays will be analyzed and practiced.

ENGLISH 11 A and B

2 SEMESTERS

11

1 CREDIT

Prerequisite: English 10

The class is designed to give students the opportunity to explore various forms of literature and expression. Students will learn the writing process, which will include persuasive essays, the basics of oral communication, and strategies for informational reading and success on the ACT.

ENGLISH 12 A and B 2 SEMESTERS 12 1 CREDIT

Prerequisite: English 11

This class is designed to use literature and writing to analyze, assess, compare and evaluate literary ideals with students' lives and the world in which they live. Students will also work on oral communication skills, ultimately creating and presenting a final project for the semester.

COLLEGE PREP ENGLISH A and B 2 SEMESTERS 10,11,12 1 CREDIT

Prerequisite: Instructor Approval

College Prep English is a class offered to Juniors in lieu of English 11. In it, as per the state English standards, students will study world literature from the Middle Ages to the Modern Era, including the following works: Sir Gawain and the Green Knight, Richard III, Les Miserables, The Count of Monte Cristo, and The Kite Runner, to name a few. Students will also engage in an intensive study of grammar. They will work on perfecting the writing of the persuasive essay as well as other writing forms, including a research paper during the second semester.

ADVANCED PLACEMENT ENGLISH A and B 2 SEMESTERS 11,12 1 CREDIT

Prerequisite: Instructor Approval

Advanced Placement English (Literature and Composition) will engage students in the intensive study of representative works of imaginative literature from various periods and genres. Through close study of selected texts, students will deepen their understanding of a work's structure, style, and themes as well as the use of figurative language, imagery, symbolism and tone. At the conclusion of the course, students will be afforded the opportunity to take the AP Examination which, may earn the student college credit depending on the achieved score. **School will pay the exam fee if the student receives a 3 or higher score on the AP exam.**

LEADERSHIP CLASS 1 SEMESTER 9,10,11,12 ½ CREDIT

Prerequisite: None

The leadership course will give students the opportunity to examine leadership theories, develop leadership skills and apply their knowledge and skills through team-building activities, speeches, mini-projects, and a large project. The class will cover such topics as goal-setting, project planning, problem solving, decision-making, evaluation techniques, self-reflection, communication skills, group dynamics and leadership styles.

CREATIVE WRITING 1 SEMESTER 9,10,11,12 ½ CREDIT

Prerequisite: None

This course is designed for students who have not had extensive experience in creative writing. Students will develop such writing resources as voice, imagery, characterization, dialogue, and narration through frequent writing exercises. Students will learn how to organize stories by learning about plot, setting, and characterization. Writers will learn to evaluate and critique their work in collaborative and individualized settings. They will use the processes of revision, editing, and rewriting to improve upon their own existing pieces. Experimentation is encouraged.



ALGEBRA I A and B 2 SEMESTERS 8,9 1 CREDIT

Prerequisite: None

The objective of this course is to introduce students to all the dimensions of the understanding of algebra: its skills, its properties, its uses, and its representations, as well as providing the foundation for success in geometry. Students will be involved in connecting algebra to geometry, to statistics, and to probability. Students will learn to

LIFE MANAGEMENT

1 SEMESTER

12

½ CREDIT

*Prerequisite: none**(Math Credit)*

This class will include an understanding of many of the challenges students will encounter once they leave SHS. We will focus on the “20 things that matter in life,” but will primarily focus on the personal, economic, and career life skills that one must know to find and manage a job and handle the responsibilities of money and living independently. Areas of study include budgeting, buying insurance, rents and leases, home ownership, banking services, saving and investing, borrowing and credit among others. If you are soon to leave home and SHS behind, find out “what they don’t teach you in school” before you leave so you are better prepared to face “the real world.”

4th year math credit courses

Life Management - ½ credit

Woods 1 - ½ credit

Consumer Math – ½ credit

Woods 2 - ½ credit

Critical Thinking - ½ credit

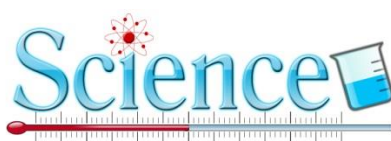
All Heartlands Courses

Strategies - ½ credit

Pre-Calculus or Calculus – 1 credit

Physics – 1 credit (if not used as a Science Credit)

Chemistry – 1 credit (if not used as a Science Credit)

**BIOLOGY A and B**

2 SEMESTERS

9

1 CREDIT

Prerequisite: none

In this course students will learn about the basics of biochemistry including properties and functions of macromolecules; the cell including functions of organelles cell processes; basic ecology including food chains, food webs, trophic levels, population growth and interaction, and the effect of populations on the environment. Students will learn about the processes of photosynthesis and cell respiration, cell division, genetics and inherited traits, protein synthesis, evolution, classification and biodiversity.

EARTH SCIENCE

1 SEMESTER

9,10, 11, 12

½ CREDIT

Prerequisite: none

This course will teach students the basic concepts related to earth science. Topics will include: stars, planets and the universe, plate tectonics, surface features and weathering, earth resources, weather and climate.

INTRO CHEMISTRY

1 SEMESTER

10, 11, 12

½ CREDIT

Prerequisite: Biology

This course will teach students the basic concepts related to high school chemistry. Topics will include: classification of matter, properties of matter, elements and the periodic table, radioactivity, chemical bonding, chemical equations, energy, acids and bases and carbon compounds.

10TH SCIENCE

Prerequisite: Biology

1 YEAR

10

1 CREDIT

This course is an integration of Earth Science, Physics and Chemistry. Each topic will be covered over a 12-week period. Student will complete the priority standards in each discipline. All 10th grade students will be required to take this course for the entire year.

CHEMISTRY A and B

2 SEMESTERS

11,12

1 CREDIT

Prerequisite: Algebra I

Chemistry is the study of atoms, the periodic table, quantum mechanics, bonding, chemical formulas and equations, stoichiometry, states of matter, thermochemistry, solutions, acids and bases and redox reactions. Because mathematics is used to prove scientific theories, students must have a working knowledge of algebra and be able to solve formulas. Students must also be able to perform basic trigonometric ratios involving triangles.

INTRO PHYSICS 1 SEMESTER 10, 11, 12 ½ CREDIT

Prerequisite: none

This course will teach students the basic concepts related to high school physics. Topics will include: laws of motion, heat energy, light and wave energy, electricity, forces and gravity.

PHYSICS A and B 2 SEMESTERS 11,12 1 CREDIT

Prerequisite: Algebra I and Geometry

Physics is the study of motion, force, momentum, periodic motion, mechanical energy, mechanical and electromagnetic waves, electric forces and currents, and energy transformations. Because mathematics is used to prove scientific theories, students must have a working knowledge of algebra and be able to solve formulas. Students must also be able to perform basic trigonometric ratios involving triangles.

HUMAN ANATOMY 1 SEMESTER 11,12 ½ CREDIT

Prerequisite: Biology

(Elective)

This course is designed to provide the student knowledge about the internal performance of the human body. It will look at the interactions of the body's various systems, which define human life and make survival, growth, development, and reproduction possible.

ZOOLOGY 1 SEMESTER 11,12 ½ CREDIT

Prerequisite: Biology

(Elective)

This class is designed to provide the student knowledge about the interrelationships of all life forms by covering common life processes. The course will also look at evolutionary relationships, aspects of animal organization that unite major phyla, and animal adaptations.

FORENSIC SCIENCE SEMESTER 11,12 ½ CREDIT

Prerequisite: none

(Elective)

This course will focus on various aspects of forensic science and modern criminal investigation analysis. It is a laboratory-based course involving scientific investigations using a variety of techniques and methods. The focus is on problem solving, designing experiments, testing and making conclusions based on empirical evidence. Writing is an integral part of the course with students being expected to communicate laboratory reports, results and conclusions as well as analyze case studies.

AGRI-SCIENCE

Agri-science is the combination of four semesters. ALL students can take any one of the classes to earn applied arts credit. Each class will incorporate FFA events and contests as required by the State of Michigan – Agri-science Standards. (FFA members must take all four sections if they want to earn their State FFA Degree and be considered completers for CTE credit)

1. ANIMAL SCIENCE 1 SEMESTER 9, 10, 11, 12 ½ CREDIT

Prerequisite: Biology A & B

(Applied arts/Science)

Students study the organization of living systems, animal industries and domestic animal production, comparative animal systems and genetics, and animal health and nutrition. Student will raise farm animals in the school barn.

2. NATURAL RESOURCES 1 SEMESTER 9, 10, 11, 12 ½ CREDIT

Prerequisite: None

(Applied Arts/Science)

Students study the environment, energy systems, and natural resources fundamentals. Students will use these topics to explain scientific and social implications, and to demonstrate leadership, business education and career success.

3. PLANT SCIENCE 1 SEMESTER 9, 10, 11, 12 ½ CREDIT

Prerequisite: None

(Applied Arts/Science)

Students study plant physiology, plant nutrition, pests and pest management and soil. Students will raise plants in the school greenhouse.

4. LEADERSHIP 1 SEMESTER 9,10,11,12 ½ CREDIT

Prerequisite: None

(Applied Arts/Science)

Leadership will develop a student's leadership skills to make them successful in the vast agriculture industry. Personal and interpersonal leadership traits will be studied. The course is structured to make learning about leadership fun using the FFA's career development activities. The class will also require students to develop and maintain a supervised agricultural experience program (SAE) to demonstrate record keeping skills.



U.S. HISTORY A and B

2 SEMESTERS

9

1 CREDIT

Prerequisite: None

This class will be a journey through American History, which will be a process of discovery...exploring the hopes, ideas and fears that have driven Americans from the past up to the present. U.S. History will primarily concentrate on time periods from the Civil War to the present.

WORLD HISTORY A and B

2 SEMESTERS

10

1 CREDIT

Prerequisite: None

World History is a two-semester social studies class required for graduation. In a study of World History and Geography students will learn about the human experience over time and space. They will encounter powerful and sometimes conflicting ideas while learning about people and events in different places and times. They will investigate our diverse and common traditions and work to understand the complex interactions between various environmental, human and social forces that have influenced and continue to influence us. The course will help connect us to people and events across time and space, illuminating the range and depth of human experience on a grand as well as local scale.

ECONOMICS

1 SEMESTER

10, 11, 12

½ CREDIT

Prerequisite: None

This is an introduction course of our nation's economic system and the impact on society. Students will study economics, organization and operations. Students will be active members of a company and involved in the decision making process.

U.S. GOVERNMENT

1 SEMESTER

10, 11, 12

½ CREDIT

Prerequisite: None

The major purpose of this required class is to provide an overall view of the American government system and to encourage citizen participation within the system. We will examine the basic principles of the Declaration of Independence and US Constitution. Students will discover the responsibilities of the different levels of government. Citizenship, civil rights, politics, pressure groups, and current events are other important elements of this course.

AP WORLD HISTORY A and B

2 SEMESTERS

9,10,11,12

1 CREDIT

Prerequisite: Instructor approval

Advanced Placement World History is a course designed to enhance a student's understanding of the development of the history of nations through an investigation of the:

- relationship of change and continuity from about 8,000 B.C. to the present
- impact of interaction among and within major societies
- impact of technology, economics, and demography on people and their environment
- systems of social structure and gender structure in major cultures
- cultural, religious, and intellectual developments of major societies
- changes in functions and structures of states and attitudes toward states and political identities, including the emergence of the nation-state

This will be accomplished through an intense (multi-perspective) study of world history and a reading of related literature and philosophy. Students will take an exam in mid-May (which consists of 60-70 multiple choice items and three essays); those who demonstrate proficiency in World History may earn college credit. The number of credits earned (3-8) is dependent on the *student's score on the exam*; simply taking the class does not automatically confer college credit. **School will pay the exam fee if the student receives a 3 or higher score on the AP exam.**

AP GOVERNMENT A and B 2 SEMESTERS 9,10,11,12 1 CREDIT

Prerequisite: Instructor approval

Advanced Placement US Government and Politics will become immersed in an *intensive* investigation of the institutions (Presidency, Judiciary, and Legislative) of the American government through a study of the United States Constitution and other related documents, including the Federalist Papers. Students will examine the origin of our great nation (philosophically and historically), public opinion and (how it may be shaped by the) media, political parties, interest groups, PACs elections, public policy, and civil right/civil liberties. AP scholars will also be asked to write several essays in response to political issues which have affected (and continue to have an effect on) the evolution of our current system of government. **School will pay the exam fee if the student receives a 3 or higher score on the AP exam.**

AP U.S. HISTORY A and B 2 SEMESTERS 9,10,11,12 1 CREDITS

Prerequisite: Instructor approval

(Elective)

AP US History is designed to provide students with a more rigorous investigation of American History, from early exploration/colonization to the modern age. Throughout the course, students will study American History from a variety of perspectives, including cultural, political, economic, international, and technological, to name a few. In addition to the study of history, students will also read examples of the literature and philosophy created in each era to enhance their understanding of America's development. In May, students will take the AP History exam, which consists of 60-75 multiple-choice items and three essay questions. Demonstrating proficiency on the exam could enable students to earn college credit (3-8, depending on the university); however, enrolling in the class itself does not guarantee college credit. One must perform well on the exam to be awarded college credit.

School will pay the exam fee if the student receives a 3 or higher score on the AP exam.

PSYCHOLOGY I 1 SEMESTER 10, 11,12 ½ CREDIT

Prerequisite: None

(Elective)

The question of human behavior and why we think, feel, and behave as we do is the focus of this class. We will investigate methods, approaches and the history of studying human behavior, the brain and its basic processes. Topics will include sensation and perception, learning, memory, intelligence and personality development and theory. This class generally is very interesting for students and the format includes lecture and discussion, experiments, class projects and activities to demonstrate concepts and principals. Evaluation includes tests, quizzes, projects and class participation.

PSYCHOLOGY II 1 SEMESTER 10, 11,12 ½ CREDIT

Prerequisite- Psych I

10
(Elective)

This class is an extension of Psychology I delving into the fundamental concepts of psychology and human development. In this class we will investigate areas of human motivation and emotion, consciousness, stages of human development, conflict stress and coping skills as well as mental disorders and abnormal psychology. In general we will continue to investigate why we think, feel, and behave as we do. The class will include lecture and discussion, experiments, individual and group projects, papers and homework as required.

AMERICAN CULTURE AND THE MEDIA 1 SEMESTER 11,12 ½ CREDIT

Prerequisite: none

(Elective)

This course will explore dually the development of the film and television industry in the U.S. and how it came to be a window into the cultural values and mores of the times as well as helping shape the opinions and standards of society. This class will explore different films and television shows as they developed through current days viewing them critically as to their themes, symbolism and how they mirror the culture of each particular period – for better or worse. Course requirements will include critical thinking skills and evaluation, being able to express opinions based on fact and interpretation, writing summaries and commentary re: film and TV, essays and research papers.

CRITICAL ISSUES 1 SEMESTER 11,12 ½ CREDIT

Prerequisite: U.S. History

(Elective)

This class is designed to help students take many aspects of the social studies field and relate them to current world situations. We will discuss and form opinions/solutions to some current world problems after studying the problem from economical, geographical, political and cultural viewpoints. Also, environmental and human rights issues will be included. This class will be challenging and require students to use their thinking, writing and persuasive skills in trying to understand some of today's problems.

A HISTORY OF CONFLICT 1 SEMESTER 11,12 ½ CREDIT

Prerequisite: U.S. History

(Elective)

This class will examine wars throughout history such as the Crusades, the French Revolution, the American Revolution, the American Civil War, World Wars I & II, the Korean War, the Vietnam War, the War on Terror and others. The wars will be examined from social, political, and economic views as well as military strategies, to determine the reasons for and consequences of war.



| | | | |
|--|------------|-----------|----------|
| <u>PHYSICAL EDUCATION</u> | 1 SEMESTER | 9 | ½ CREDIT |
| <i>Prerequisite: None</i> | | | |
| Skills and activities incorporated into this class will consist of team and individual activities, understanding of the skills, rules and strategies of games, realization of the importance of good sportsmanship, and developing an understanding of a proper strength-training program. | | | |
| <u>TEAM SPORTS</u> | 1 SEMESTER | 10,11,12 | ½ CREDIT |
| <i>Prerequisite: Physical Education (Elective)</i> | | | |
| Instruction and playing in softball, basketball, floor hockey, volleyball, in-door soccer, pickleball, badminton, eclipse ball and team handball will be the focus of this class. | | | |
| <u>INDIVIDUAL SPORTS</u> | 1 SEMESTER | 10,11,12 | ½ CREDIT |
| <i>Prerequisite: Physical Education (Elective)</i> | | | |
| This class will offer instruction on the rules, etiquette, skill development and playing strategies of various individual sports. The following sports will be studied: Tennis, Golf, Jogging, Strength Training, Badminton, Table Tennis, Yoga, Aerobic Dance, Pilates, Archery, Frisbee Golf and Bowling. | | | |
| <u>HEALTH</u> | 1 SEMESTER | 9 | ½ CREDIT |
| <i>Prerequisite: None (Health)</i> | | | |
| Learning experiences that will attempt to influence, educate, and change behavior concerning the health of the individual, family and community. Topics include stress and suicide, nutrition; fitness, first aid; disease; reproductive health; substance abuse. | | | |
| <u>FITNESS AND NUTRITION</u> | 1 SEMESTER | 10, 11,12 | ½ CREDIT |
| <i>Prerequisite: Physical Education (Elective)</i> | | | |
| This course will present principles and methods of muscular and energy fitness, as well as information regarding nutrition and its role in a healthy lifestyle. | | | |
| <u>HISTORY OF SPORTS</u> | 1 SEMESTER | 10, 11,12 | ½ CREDIT |
| <i>Prerequisite: Physical Education (Elective)</i> | | | |
| Sports have always been a part of both world history and States history. This class will examine the history of some sports, such as basketball, baseball, football, hockey, soccer, and volleyball to name a few. We will look at the history and development of the sport along with practicing and playing the sport. | | | |
| <u>AEROBICS</u> | 1 SEMESTER | 10, 11,12 | ½ CREDIT |
| <i>Prerequisite: Physical Education (Elective)</i> | | | |
| This class is designed to develop the individual's cardiovascular fitness and increase his/her knowledge of a lifelong wellness program. This will be accomplished through endurance based activities such as aerobic dance, step aerobics, walking, jogging, running and stationary aerobic equipment. | | | |
| <u>WEIGHTLIFTING</u> | 1 SEMESTER | 10, 11,12 | ½ CREDIT |
| <i>Prerequisite: Physical Education (Elective)</i> | | | |

This class is designed to improve physical fitness, muscle tone, strength, and agility. Much time is spent on weight machines, free weights, calisthenics, and running.



| | | | |
|--|-------------|---------------|----------|
| <u>SPANISH I A and B</u> | 2 SEMESTERS | 9, 10, 11, 12 | 1 CREDIT |
| Prerequisite: None | | | |
| Students will become acquainted with Spanish and Latin American culture through classroom activities projects . Students will learn survival language skills and how to communicate their own needs as well as understand those around them. Students will learn through listening, reading, writing and speaking. | | | |
| <u>SPANISH II A and B</u> | 2 SEMESTERS | 10, 11, 12 | 1 CREDIT |
| Prerequisite: Spanish I | | | |
| Students will demonstrate mastery of Spanish I concepts. Students will continue to speak, listen, read and write in class daily. Students will research assigned cultural topics and present their findings in Spanish videos to their classmates. Students will learn situational vocabulary and learn to express themselves in four additional tenses. | | | |
| <u>SPANISH III A and B</u> | 2 SEMESTERS | 11, 12 | 1 CREDIT |
| Prerequisite: Spanish II | | | |
| This class is designed for the self-motivated and college bound student. Students will read short novels in Spanish and research artists and music of different Spanish speaking countries. Students will also learn a minimum of 8 additional tenses to express themselves. | | | |
| <u>SPANISH IV A and B</u> | 2 SEMESTERS | 12 | 1 CREDIT |
| Prerequisite: Spanish III | | | |
| This class is for the truly dedicated student who wishes to work on their listening and speaking abilities. Students will make use of videos, radio and Spanish speaking programs available on the Internet. Students will also work to improve their fluency and knowledge of the cultures through presentations and research. | | | |
| <u>FRENCH I A and B</u> | 2 SEMESTERS | 9 | 1 CREDIT |
| Prerequisite: None | | | |
| The objective of this course is to provide students with a heightened awareness of world cultures and an ability to communicate with French-speaking people through speaking, listening, reading, and writing in French. Vocabulary, grammar, and pronunciation studies are the focus on in this class. Class activities are conducted using written text, audio and video presentations, and computer software. (It is recommended that each student own a French-English dictionary.) | | | |
| <u>FRENCH II A and B</u> | 2 SEMESTERS | 10,11,12 | 1 CREDIT |
| Prerequisite: French I | | | |
| The objective of this course is to provide students with a heightened awareness of world cultures and an ability to communicate with French-speaking people through speaking, listening, reading, and writing in French. Vocabulary, grammar, and pronunciation studies include a comprehensive review and extension of French I functions. Class activities are conducted using written text, audio and video presentations, and computer software. (It is recommended that each student own a French-English dictionary.) | | | |

VISUAL, PERFORMING AND APPLIED ARTS



SENIOR BAND A and B

2 SEMESTERS

9, 10, 11, 12

1 CREDIT

Prerequisite: Prior participation in a school band program and Director's Approval

The High School Band is a large musical ensemble that consists of any 9th through 12th grade student wishing to pursue the art of music through the playing of a woodwind, brass, or percussion instrument.

Membership in the High School Band includes marching band, concert band, pep band, jazz band, and solo & ensemble groups. Attendance at all rehearsals and concerts is mandatory. Students who do not meet the prerequisite must audition and be approved by the Director.

HIGH SCHOOL VOCAL ENSEMBLE

1 SEMESTER

9,10,11,12

1 CREDIT

Prerequisite: None

The High School Vocal Ensemble is a large vocal music ensemble that consists of any 9th through 12th grade student that wishes to pursue the art of music through singing. It is designed to give students a wide variety of vocal musical experience at a high level. Students will receive instruction in fundamental music principles, performance and practice techniques, and individual vocal technique. This instruction will be accomplished by exposing students to a variety of music literature through small and large ensemble singing.

DRAMA

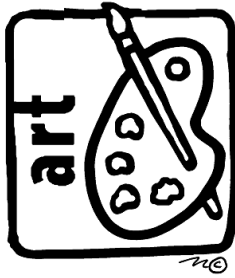
1 SEMESTER

10,11,12

½ CREDIT

Prerequisite: None

Students will learn all the basics of play production including direction, stage management, acting, properties, costume and make-up. There will be written assignments and tests. We will briefly study the elements of classical Greek, Shakespearean, and modern theater. Our consideration of acting will include projection, movement, articulation, improvisation, auditioning techniques, and creative use of space. For the semester production, students will be placed in either the cast or crew, based on their personal preferences and a simple audition. **IMPORTANT:** Attendance at all rehearsals and performances are required of class members. Performances and rehearsals will be held outside school hours. Anyone who does not plan to attend should not sign up; attendance is part of the grade for this course.



INTRODUCTION TO ART

1 SEMESTER

9, 10, 11, 12

½ CREDIT

Prerequisite: None

Introduction to Art is designed to introduce students to a variety of visual arts media. Students will work with many materials in areas such as drawing, painting, graphic design, sculpture, pottery and printmaking. Students will also study art history and develop skills of art criticism, aesthetics, and analysis. Upon successful completion of this course, students can take advanced classes.

SCULPTURE & DESIGN

1 SEMESTER

9, 10, 11, 12

½ CREDIT

Prerequisite: Intro to Art

Sculpture and Design is designed to provide students with a broad spectrum of visual art experiences in 2-Dimensional and 3-Dimensional form. Students will work with a variety of media which include clay, plaster of paris, alabaster, and pewter. On a 2-dimensional level, students will study design and how to communicate visually. They will design personal logs, study visual text and calligraphy, and work with pen & ink.

POTTERY

1 SEMESTER

9, 10, 11, 12

½ CREDIT

Prerequisite: Intro to Art

Pottery is designed to introduce students to a variety of hand building and wheel throwing techniques including pinch, slab, coil, drape, stamp making and ceramic sculpture. Students will learn the history of ceramic and the role pottery has played in past and modern culture. Students will also study clay terminology and tools related to clay. They will create their own glazes and learn the chemical component of a glaze. Students will also learn how to load and fire a ceramic kiln.

DRAWING

1 SEMESTER

9, 10, 11, 12

½ CREDIT

Prerequisite: Intro to Art

Drawing is designed to introduce students to a variety of drawing media including pastel, colored pencil, charcoal, pen & ink, scratch board and craypa. Students will learn and be encouraged to incorporate a variety of drawing and shading techniques. The class will include extensive studies of the human body from the skeletal system to the specific of the human face.

PAINTING

1 SEMESTER

9, 10, 11, 12

½ CREDIT

Prerequisite: Intro to Art

Painting is designed to introduce students to a variety of painting media and painting styles. Paintings will be done using acrylic, oil and watercolor paint. Students will learn to build and stretch a canvas. They will study and do paintings in the styles of Impressionism, Surrealism, and Expressionism. Each student will be required to research an artist or historical period of art and create a painting in that style and write a research paper.

ADVANCED ART

1 SEMESTER

9, 10, 11, 12

½ CREDIT

Prerequisite: Intro Art and 3.0 GPA or higher in previous art classes

Advanced Art is designed to give the more motivated art student a chance to work in a variety of media in greater depth including sculpture, painting, pottery, graphic design and drawing. Students will receive additional experiences in art criticism, analysis and history. In this class, students will work on development of personal style and development of personal expression in their work.

AMERICAN CRAFTS

1 SEMESTER

9, 10, 11, 12

½ CREDIT

Prerequisite: Intro to Art

Craftsmanship is an essential part of creating works of art and crafts are forms of art that are often associated with occupation or a trade requiring art skills or manual dexterity. Students will learn skills and create original hand-made objects through an artistic manipulation of a variety of artistic materials including clay, textiles, metals, woods, glass, etc. Students will be able to use the skills learned in this class for future hobbies or possible careers.

MULTI-MEDIA DEPARTMENT



JOURNALISM (YEARBOOK and NEWSPAPER) 2 SEMESTERS 12 1 CREDITS

Prerequisite: None

Yearbook Publications is responsible for publishing the Chieftain. In this yearlong class, students will cover every major event of the school year using writing and photography. They also must work collaboratively to package these events in an interesting and attractive way. Creating designs as well as writing are key aspects of the purpose of the class. Students are required to do interviews, use specific computer programs, and sell ads and yearbooks. Before production of the yearbook begins, students are required to learn how media law is related to ethics and understand the standard ethical codes of journalism. Besides enjoying the challenge of writing and packaging it in effective designs, students should possess a sense of detail, a quality necessary to produce the yearbook.

MULTI-MEDIA 1 SEMESTER 9,10,11,12 ½ CREDIT

Prerequisite: none

Students will begin the semester by learning about film history and the changes that have taken place in film overtime. Students will then learn to shoot different genres of film, using a variety of camera shots and angles as part of the filming technique. Students will use digital camcorders to capture footage, and then learn how to upload and edit that footage to create a finished product. In addition to film students will be responsible for creating a weekly school newscast.

COMPUTER PROGRAMMING 1 SEMESTER 9,10,11,12 ½ CREDIT

Prerequisite: none

Students will use various computer programs (Scratch, Stencyl, and GameMaker) to create their very own video games. Upon completion of a game, students will then have that game tested by a number of classmates who will provide feedback. In addition, students will learn to write code using JavaScript, HTML, Visual Basic, and Python.

APPLIED ARTS



INDUSTRIAL ARTS 1 SEMESTER 9,10,11,12 ½ CREDIT

Prerequisite: none

Demonstrations and hands-on activities including sheet metal work, gas welding, arc welding, MIG welding, foundry work, auto body repair, and career connections. A materials fee is assessed.

WOODS I 1 SEMESTER 9, 10,11,12 ½ CREDIT

Prerequisite: none

Intro to woodworking – includes planning and layout work, measuring and purchasing lumber, working with different lumber and wood materials, care and maintenance of tools, sizing stock and wood joinery, as well as preparing wood for finishing and finishing methods. Students are expected to be involved on assigned project work. A materials fee is assessed.

WOOD II 1 SEMESTER 9,10,11,12 ½ CREDIT

Prerequisite: Wood I

Students will use of all methods and safety guidelines from Woods I to direct furniture-building techniques. This will include a history of furniture design. Students are expected to be involved in assigned project work. A materials fee is assessed.

Building Trades 1 SEMESTER 9,10,11,12 ½ CREDIT
 This course will provide a basic overview of the phases of construction basics. Course work will include safety, math, employability skills, materials, tools and equipment, blueprint reading, site preparation, residential, commercial and green construction.

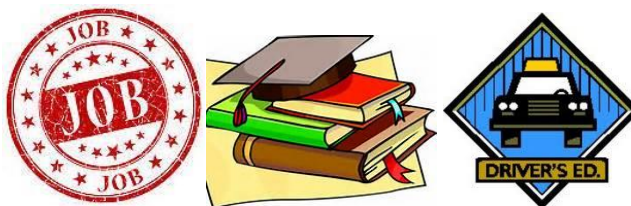
MECHANICAL DRAWING I 1 SEMESTER 11, 12 ½ CREDIT
Prerequisite: None
 Working knowledge of the area of drafting which includes lettering, multi-view drawing, dimensioning, sectional views and pictorial drawing.

MECHANICAL DRAWING II 1 SEMESTER 11, 12 ½ CREDIT
Prerequisite: M.D. I
 This class will place an emphasis on working drawings, pattern development, printmaking, and architectural drawings.

INTRODUCTION TO CONSTRUCTION 1 SEMESTER 10, 11, 12 ½ CREDIT
Prerequisite: Woods I
 This is an introduction class to current construction practices. Coursework includes foundations, wall units, trusses, roofing, and material usage. Students will also learn how to read plans and build according to a plan using industry specifications and local codes. Hands on activities reinforce topics discussed. Sample project planning and budgeting is also addressed.

HOME MAINTENANCE 1 SEMESTER 9,10,11,12 ½ CREDIT
Prerequisite: none
 This class uses hands-on demonstrations of simple everyday maintenance. It will include car maintenance, home maintenance (i.e. changing electrical outlets), small engine repair, and a unit on how to conserve energy in our homes and cars. The central idea/theme of the class is to give students a practical knowledge of repairs they can make without paying a professional.

ADDITIONAL OPPORTUNITIES



DRIVER'S EDUCATION 1 SEMESTER 9, 10, 11, 12 ½ CREDIT
Prerequisite: Must meet age requirements (Elective)
 This course combines the State of Michigan's Driver's Education Curriculum with other life topics such as career development, personal development, parenting, marriage relationships, family relationships, personal finances, and study skills. **There will be a fee for the student to take the course.** Students are also required to drive after school and/or on Saturdays to fulfill the state requirement.

CREDIT RECOVERY 1 SEMESTER 11,12 ½ CREDIT
Prerequisite: Prior permission of Administration (Elective)
 Courses are offered via the Internet. These courses are designed to be taken to make-up or substitute for the high school graduation requirements. Students taking graduation requirement courses must have taken the course with a teacher and failed the class in order to enroll in credit recovery. These courses will be monitored by a certified teacher and require approval from the high school principal or his/her designee.

WORK BASED LEARNING

SEMESTER

12

½ CREDIT

A school-to-work coordinator approved educational activity that will help the student meet work based learning goals. The program features an off campus work component that will provide linkage to the student's chosen career path. The maximum number of credits for WBL that can be applied toward graduation will be two (2).

ONLINE COURSEWORK

SEMESTER

9, 10, 11, 12

½ CREDIT

Prerequisite: Must get prior approval from administration.

Courses are offered via the internet. Contact your counselor or administrator for further information. The following are the courses available online through Edgenuity (e2020):

MATH

6th Grade Math

7th Grade Math

Algebra

Algebra I

Algebra II

Financial Math

Geometry

Math Models with Applications

Pre-Algebra

Pre-Calculus

Trigonometry

SOCIAL STUDIES

Economics

Geography

Government

Human Geography

MS Civics, Government, and Economics

MS US History

MS World Cultures and Geography

MS World History

US History

World History

SCIENCE

Biology

Chemistry

Earth Science

Environmental Science

Life Science

Physical Science

Physics

ELECTIVES

AP Psychology

Art History I

Career Planning and Development

Career Skills

Computer Applications

Computer Applications-Office 2007

Consumer Skills

Foundations of Personal Wellness

Health

Healthy Living

Introduction to Art

Lifetime Fitness

Psychology

Sociology

Spanish I

Spanish II

LANGUAGE ARTS

AP English Language and Composition

CLN - A Midsummer Night's Dream

CLN - Borges Author Study

CLN - Call of the Wild

CLN - Dr. Jekyll and Mr. Hyde

CLN - Gulliver's Travels

CLN - Heart of Darkness

CLN - Jane Eyre

CLN - Mrs. Dalloway

CLN - Nineteen Eighty-four

CLN - O'Connor Author Study

CLN - Portrait of the Artist

CLN - Robinson Crusoe

CLN - The House of Seven Gables

CLN - The Red Badge of Courage

CLN - The Three Musketeers

Communications and Speech

Language Arts 6

Language Arts 7

Language Arts 8

Language Arts 9

Language Arts 10

Language Arts 11

Language Arts 12

Michigan Virtual School Courses

Mathematics:

Algebra 1
Algebra 2
AP Calculus
AP Statistics
Calculus
Geometry
Math of Baseball
Personal Finance
Pre-Algebra
Pre-Calculus
Statistics
Trigonometry

Science:

Anatomy and Physiology
AP Biology
AP Environmental Science
AP Physics B
AP Physics C
Astronomy
Biology
Chemistry
Earth Science
Environmental Science
Forensic Science
Health
Marine Science
Physical Science
Physics

Social Studies:

AP Macroeconomics
AP Microeconomics
AP Psychology
AP U.S. Government
AP U.S. History
AP World History
Civics
Economics
Leadership
Psychology
Sociology
U.S. History
World History

English:

AP English
Composition
English 9
English 10
English 11
English 12
Film Studies
Journalism
Reading
Literature

Languages:

Sign Lang. 1
Sign Lang. 2
AP French
French 1 – 4
AP Spanish
Spanish 1-4
German 1 – 4
Chinese 1 – 4
Japanese 1 – 2
Latin 1-3

Other:

Accounting
AP Art History
AP Computer Science
Employability Skills
Business Ethics
Entrepreneur Business Management
Entrepreneur Business Planning
Careers-Find Your Future
Career Planning
Microsoft Office 2007
Introduction to Computer Programming 1
Introduction to Computer Programming 2
Web Design
Game Design
Flash Animation
Art Appreciation
In Search of Cyrano
Digital Imaging and Communication
Medical Terminology
Music Appreciation
Personal Fitness
Study Skill

DUAL ENROLLMENT

Prerequisite: Principal/Counselor Approval

Post-secondary enrollment opportunities such as Advanced Placement (AP) classes, dual enrollment, Michigan Virtual School and career and technical preparation options are available to qualified students.

SEMESTER

9, 10, 11, 12 ½ CREDIT

Approved Assessments and Qualifying Scores:

- ⤴ Michigan Merit Exam (MME) – Students who score at levels 1 or 2 (Exceeded the Standard or Met the Standard) will be eligible for dual enrollment.
- ⤴ ACT & PLAN Assessment – Students who score at or above the minimums listed below:
 - Mathematics – 18
 - Reading – 17
 - Science – 19
 - English – 21
- ⤴ PSAT Assessment
 - Critical Reading – 44
 - Writing Skills – 49
 - Mathematics – 45

If ACT scores are below these minimums or a student has not taken the ACT, student will need to go to the college to take placement tests to determine if they are eligible to be accepted into the college.

ELIGIBLE DUAL ENROLLMENT COURSES

- ⤴ If a student qualifies for dual enrollment, eligible courses include:
- ⤴ A course offered by an eligible post-secondary institution is not offered by the school district including Advanced Placement and online courses.
- ⤴ A course offered by the school district, but is determined by the Principal to not be available to the eligible student because of a scheduling conflict beyond the eligible student's control.
- ⤴ Courses that are a hobby, craft, recreational or courses in the areas of physical education, theology, divinity or religious education are **not** eligible for tuition support.

Eligible students must designate whether the course is for high school or post-secondary credit or both at the time of enrollment. The district will pay a portion of the student's tuition and mandatory course fees, based on a formula of the sum of the state portion of the district's foundation allowance, per membership pupil, adjusted for the proportion of the school year that the student attends the post-secondary institution. While this formula, which changes each year, may be enough to cover the tuition and fees for Lansing Community College, or other local public colleges and universities, it may not be enough to cover the total tuition costs for private colleges and universities in the area. Parents are responsible for paying any difference in cost. Books, transportation, parking costs, or most activity fees, are **not** eligible charges under the law. If a student wishes to take a class that is not offered at Lansing Community College, they must seek approval from the principal and counselor. **Courses withdrawn or receiving a failing grade will be billed directly to the student for full reimbursement.**

MICHIGAN VIRTUAL SCHOOL

The *Michigan Virtual School (MVS)* is an online resource that enables Michigan high schools to provide courses (all taught by certified teachers) that students would not otherwise have access to. The Michigan Legislature founded it in July of 2000 to be operated by the *Michigan Virtual University (MVU)*, a private, not-for-profit Michigan corporation. *MVS* works in cooperation with individual school districts to grant course credit. Through *MVS*, Michigan high school students can take a variety of courses and learn any place there is a computer and an Internet connection. *MVS* helps to prepare students for a lifetime of integrating technology into their work and their lives. Students may take no more than two virtual courses per semester. **All** of the rules and guidelines for virtual high school are the same as those for dual enrollment at post-secondary institutions. **Courses withdrawn or receiving a failing grade will be billed directly to the student for full reimbursement.**

HEARTLANDS INSTITUTE OF TECHNOLOGY

All HIT classes are 3 class session block. If you sign up for this class, it is for 1 full school year. Students will not be allowed to drop the course without Administrative approval. Approvals will not be granted because you do not like the class. **No one is allowed to drive to HIT.** Students are required to ride the school bus to and from the class. AM students will need to be at the school by 7:25 am to catch the bus to HIT. PM students will return by 2:40 pm. This is School Board policy.

Automotive Technology

YEAR

11,12

3 CREDITS

Helpful background classes: Math, English, Chemistry

Course includes the development of skills in basic automotive maintenance, service and light repair. Students are introduced to diagnosis of systems and concerns, causes and correction of problems. Critical thinking skills and shop safety are emphasized. Course includes applied academics of math, science and language arts. Minimum performance requirements for this course are based on successful completion according to the National Automotive Technicians Education Foundation (NATEF) Automobile Program Standards.

Computer and Network Administration YEAR 11,12 3 CREDITS

Helpful background classes: Math, English, Computer Courses

Course offers the opportunity to learn computer networking and computer hardware repair, operate and maintain local area network (LAN) and (WLAN), use firewalls to safeguard networks from threats inside and outside and work towards industry certification. Students in the program will combine classroom training with in-class projects utilizing both current and legacy hardware and software from major IT companies. Test labs are used frequently to simulate local area network environments. Skills learned in class will include setup and maintenance of client computers, servers, switches, routers, network firewalls, software to update and maintain IT systems, configuring operating systems and analysis of security threats. Students will work towards one of a number of certifications offered by CISCO and Microsoft.

Building Trades 1 SEMESTER 11,12 3 CREDITS

Helpful background classes: Math, English, Chemistry, Physics

This course will provide a basic overview of the phases of construction basics. Course work will include safety, math, employability skills, materials, tools and equipment, blueprint reading, site preparation, residential, commercial and green construction.

Dental Occupations YEAR 11,12 3 CREDITS

Helpful background classes: Biology, Math, English, Chemistry

Dental Occupations is designed to introduce the students to the various career opportunities available in the dental field. Upon completion, the student will have had training in the areas of chair-side dental procedures, lab techniques, and office procedures. Students have an opportunity to serve an internship in a dental office and to work with local dentists in the classroom during the Heartlands' Dental Clinic. After completion of the program, students seek employment as assistants or receptionist and may pursue an advanced degree in dental hygiene, dental assisting, or dentistry.

Diesel / Heavy Equipment YEAR 11,12 3 CREDITS

Helpful background classes: Basic Reading and Math, General Science

Eight areas of the Diesel/Heavy Equipment mechanic are covered. The student works with agricultural, material handling, or highway equipment. Students will perform the following duties as a journey person mechanic: servicing, maintaining, repairing, inspecting, cleaning, dismantling engines and electrical systems and diagnosing of internal combustion engines, electrical components, transmissions, and heavy-duty brakes and suspension. Proper set-up and operation of vehicles, equipment, and machines are a part of the job. Mechanics must often work independently, solve problems, and perform work that is physically demanding.

Culinary Arts YEAR 11,12 3 CREDITS

Helpful background classes: Math, Communications

Culinary Arts is designed to acquaint the student with many occupations in the Food Service Industry. Students will gain knowledge and experience by working with food products in the area of baking, salad and garnishing, soups and salads, desserts and entrée items. This program operates the Class Act Restaurant giving students the opportunity to gain skills as a waiter/waitress, short order cook, host/hostess, and cashier. The Culinary Arts program follows the Pro-Start and Serv-Safe curriculum. This is the state approved program for Culinary Arts.

Medical Careers YEAR 11,12 3 CREDITS

Helpful background classes: Biology, Math, English

Medical Careers is designed to acquaint students with careers in the health fields and to teach students basic medical assisting or nurse aide skills. Students are provided with a combination of classroom, laboratory, and clinical observational and hands-on experience in available medical areas. Students are required to have a uniform to work in the laboratory. Related occupations include: Physical Therapy Aide, Ambulance Attendant, Occupational Therapy Aide, Nursing Assistant, Orderly, Pharmacy Technician, Central Supply Aide, Dietary Aide or Home Health Assistant. Upon completion of the program the student will be eligible to take the state clinical and written exams for certified nursing assistants.

Machine Tool YEAR 11,12 3 CREDITS

Helpful background classes: Algebra, Industrial Arts, Technology Education, Computers

Machine Tool uses industrial type machines such as drill presses, grinders, lathes, band saws, and milling machines to create useful items found in everyday life. It also uses precision measuring tools along with

blueprints to make items that are long lasting and of high quality. Welding is also covered. This program lets student/trainees rediscover and use what they already know from other classes and experiences. CAM (Computer Assisted Machining) is part of Machine Tool. In CAM, students learn how to take an idea, design it and draw it on a computer, and then program the computer to run a computer-operated machine. Jobs in the machine tool trade generally are classified as semi-skilled and skilled. Workers build, test, inspect, and operate machines and equipment.

| | | | |
|------------------------------------|------|-------|-----------|
| <u>Plant/Animal Science</u> | YEAR | 11,12 | 3 CREDITS |
|------------------------------------|------|-------|-----------|

The Plant/Animal Science program will prepare students for careers or further study in the areas of horticulture and animal science. The program will focus on areas of greenhouse plants, landscaping, pest control and turf in the area of horticulture. In the area of animal science students will have the opportunity to explore the large animal industry in Michigan. The class will examine animal growth, body systems and management areas. Students will have the opportunity to experience modern technology in Agriscience involving hydroponics and aquaculture. Students will also work on the development of personal and career skills.

| | | | |
|--------------------------------|------|-------|-----------|
| <u>Criminal Justice</u> | YEAR | 11,12 | 3 CREDITS |
|--------------------------------|------|-------|-----------|

The Criminal Justice program is designed to provide basic knowledge, skills and behaviors necessary for continued education in the fields of law enforcement, probation, corrections, investigation, private security and other criminal justice related positions. Students will experience areas of instruction to include law, ethics, investigations, physical conditioning, first aid, defensive tactics, and patrol and police skills. Due to the adult and sometimes graphic nature of the subject matter, a high level of student maturity and discipline is recommended for success in the program. Criminal Justice students will have the opportunity to receive 12 college articulated credits and develop strategies to help ensure achievement at their next education level.

| | | | |
|-----------------------------------|------|-------|-----------|
| <u>Aviation Technology</u> | YEAR | 11,12 | 3 CREDITS |
|-----------------------------------|------|-------|-----------|

The Aviation Technology program is designed to introduce students to all aspects of the aviation industry. Students with an interest in pursuing a career related to aviation are good candidates for this program. Students will be introduced to subject areas ranging from the very first airplanes to modern commercial aviation, flight operations, regulations, aircraft inspection, maintenance, and many other aircraft systems. The Aviation Technology program is an "off-campus" program located at the SMAT Campus which is located in the Ionia County Airport with bussing provided from Heartlands. A high level of student maturity and discipline is required for this program.

| | | | |
|--|------|-------|-----------|
| <u>Computers and Network Administration</u> | YEAR | 11,12 | 3 CREDITS |
|--|------|-------|-----------|

Computers and Network Administration offers the opportunity to learn computer networking and computer hardware repair, operate and maintain local area network (LAN) and (WLAN), use firewalls to safeguard networks from threats inside and outside and work towards industry certification.

The 21st Century brings with it a huge demand for technically proficient specialists. These specialists need technical expertise to design, implement, and support the technology that exists in business and industry. Students in the program will combine classroom training with in-class projects utilizing both current and legacy hardware and software from major IT companies. Test labs are used frequently to simulate local area network environments. Skills learned in class will includes setup and maintenance of: client computers, servers, switches, routers, network firewalls, software to update and maintain IT systems, configuring operating systems and analysis of security threats. Students will work towards one of a number of certifications offered by CISCO.

Heartlands Institute of Technology

CTE ACADEMIC CREDIT OFFERINGS

Legislative changes have opened up options for students in the world of CTE. Options for MMC are allowed in state-approved CTE programs only except for 4th year related Math.

| State Approved Programs | Non-State Approved Programs | |
|------------------------------------|--|--|
| Computer Networking Administration | Automotive Technology | |
| Criminal Justice | Aviation Technology * | |
| Culinary Arts | Diesel Technology | |
| Dental Occupations | | |
| Health Occupations | | |
| Machine Tool | | |
| Plant/Animal Science | | |
| | * This CTE Program is awaiting state approval status | |

| HEARTLANDS PROGRAMS | ENGLISH | MATH | | SCIENCE | SOCIAL STUDIES | PE/HEALTH | VPAA | FOREIGN LANGUAGE |
|--------------------------------------|---------|-----------------------|------------|------------|----------------|-----------|------|------------------|
| | | 4th Year Related Math | Algebra II | 3rd Credit | (PC Only) | (PC only) | | |
| Automotive Technology | | X | | | | | | |
| Aviation Technology | | X | | | | | | |
| Computer & Networking Administration | | X | | X | PC Only | PC Only | X | X |
| Criminal Justice | | X | | X | PC Only | PC Only | X | X |
| Culinary Arts | | X | | X | PC Only | PC Only | X | X |
| Dental Occupations | | X | | X | PC Only | PC Only | X | X |
| Diesel Technology | | X | | | | | | |
| Health Occupations | | X | | X | PC Only | PC Only | X | X |
| Machine Tool | | X | X | X | PC Only | PC Only | X | X |
| Plant/Animal Science | | X | | X | PC Only | PC Only | X | X |

GO (Graduation Options) Program

This is an alternative school day designed for students who are not on track to graduate. You must have less than 9 credits as a Junior and less than 14 as a Senior to qualify for the program. Administration may grant enrollment based on special circumstances. You must have 19 credits to graduate from this program. GO students can participate in all school activities. Sports are available if practice is outside of the GO program hours. GO program hours are from 11:30 pm – 6:15 pm Monday to Friday.

Classes will be assigned from the Education 20/20 courses. This is a program that students work independently through course work that is presented on the computer. There is a certified teacher in the computer lab for all sessions. The teacher's role is to assist with computer problems and redirect students who are struggling with the course work. See Administration or the School Counselor to enroll in this program.

SARANAC HIGH SCHOOL COURSE OFFERINGS 2016-17

LANGUAGE ARTS (4 Credits)

English 9 A, B
English 10 A, B
English 11 A, B
College Prep English A, B (10, 11)
English 12 A, B
AP English A, B

LANG ARTS ELECTIVE ½ credit

Creative Writing (9, 10, 11,12)
Leadership (9,10, 11, 12)
Journalism (12)

MATH(4 Credits)

Algebra 1 A, B (9, 10)
Geometry A, B (9, 10)
Algebra II A, B (10, 11, 12)
Pre-Calculus A, B (11, 12)
Critical Thinking (12)
Strategies (9-12)
Financial Math (12)

SCIENCE (3 Credits)

Biology A, B (9)
10th Grade Science (10)
Chemistry A, B (11, 12)
Physics A, B (11, 12)

SCIENCE ELECTIVES (1/2 credit)

Anatomy
Zoology
Animal Science
Natural Resources
Plant Science
Leadership

SOCIAL STUDIES (3 Credits)

U.S. History A, B (9)
AP U.S. History A, B (9,10,11,12)
World History A, B (10)
AP World History A, B (9, 10, 11, 12)
Economics
U.S. Government
AP Government A, B (9, 10, 11, 12)

SOCIAL STUDIES ELECTIVES

Current Events (9-12)
Psychology (9-12)

PHYSICAL EDUCATION (1 credit)

Health (9)
Physical Education (9)

PHYSICAL EDUCATION ELECTIVES

Advanced Physical Education (10, 11, 12)
Conditioning (10, 11, 12)

FOREIGN LANGUAGE

Spanish I A, B (9, 10, 11, 12)
Spanish II A, B (10, 11, 12)
Spanish III A, B (11, 12)
Spanish IV A, B (12)
French I A, B (9, 10, 11, 12)
French II A, B (10, 11, 12)

PERFORMING ARTS

Senior Band A, B (9, 10, 11, 12)
Choir A, B (9,10, 11, 12)

Drama (10, 11, 12)

VISUAL ARTS

Intro Art/Advanced Art (9, 10, 11, 12)
Sculpture & Design (9, 10, 11, 12)
Pottery/Advanced Pottery (9, 10, 11, 12)
Drawing (9, 10, 11, 12)
Painting (9, 10, 11, 12)
Journalism (10, 11, 12)

ADDITIONAL CLASSES

Driver's Education
Credit Recovery
Work Based Learning
Dual Enrollment
Virtual High School

HEARTLANDS INSTITUTE (year long)

Auto Technology (11, 12)
Computer Networking (11,12)
Dental Occupations (11, 12)
Diesel Mechanics (11, 12)
Culinary Arts (11,12)
Health Occupations (11, 12)
Machine Tool (11, 12)
Plant/Animal Science (11,12)
Criminal Justice (11, 12)
Aviation Technology (11,12)

