

# Cadillac High School

## Course Guide

2018-2019



# WELCOME TO CADILLAC HIGH SCHOOL

*Home of the Vikings*

## ADMINISTRATION

PRINCIPAL.....SHAINA BILLER  
ASSISTANT PRINCIPAL.....TODD BRUGGEMA  
ATHLETIC DIRECTOR.....FRED BRYANT

## COUNSELORS

**LINDA FEISTER**

9th Grade A-G  
Grade 11

**MEAGAN HOBLET**

9th Grade H-M  
Grade 12

**TERESA WILLIAMS**

9th Grade N-Z  
Grade 10

## **School-Wide Vision**

Promote and foster a unified school community focused on high achievement and continuous learning.

- Engage in deep continuous learning while working toward increasing independence and ownership.
- Provide systems of communication and collaboration where all voices are valued and solicited.
- Ensure comprehensive academic, social, and emotional support for students, staff, and members of the school community.

## **School-Wide Mission**

Provide a comprehensive public education that challenges individuals to reach their full potential. With students as the focus of all we do, we are committed to establishing and achieving high expectations with measurable goals that promote excellence. The students, school, parents and community share the responsibility to provide an environment that will enable students to develop essential skills necessary to be functioning members of society.

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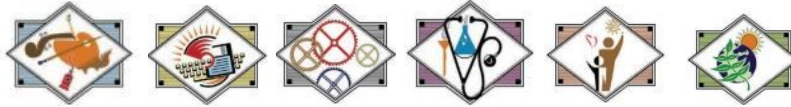
# CHS Graduation Requirements

Cadillac High School follows the Michigan Merit Curriculum requirements for graduation.


Subject Area	Credit Requirements	Additional Information
English (ELA)	4.0 Credits	English 9; English 10 or Honors 10; English 11 or Honors 11; College Prep, Short Novels or AP English Literature
Math	4.0 Credits	Alg I; Geometry; Alg II and a 4th credit in one of the following courses: Astronomy, Concepts of Engineering, Computer Science, Trigonometry, Statistics, Accounting, Personal Finance, Entrepreneurship, Pre-Calculus or AP Calculus *Students must have a math experience in their final year
Science	3.0 Credits	One (1) credit Biology, one (1) credit district determined science and one (1) credit elective science
Social Studies	3.0 Credits	Civics; Economics; World History and Geography and US History and Geography
PE and Health	1.0 Credit	½ credit Health; ½ credit Physical Education
Visual, Performing and Applied Arts	1.0 Credit	Art; Music; Industrial Arts; Communication, Computer Science, additional World Language or CTE Programming
World Language	2.0 Credits	Two (2) credits of World Language OR one (1) credit of World Language plus successful completion of one (1) credit of approved CTE programming, or successful completion of additional VPAA credit
Online Learning Experience	N/A	Cadillac Area Public Schools ensure that all students are provided quality online learning opportunities throughout grades 6-12 which meet and fulfill Michigan Merit Curriculum requirements for graduation.

- The number of credits required for graduation is **27.5 credits**.
- All students must be enrolled in the equivalent of five (5) classes each term.
- In order to graduate a student must complete the Michigan Merit Exam or State Required Assessment.
- The Drop and Add period is the first three (3) school days of each trimester. All schedule changes must be completed at this time (barring exceptional circumstances and administration approval). **All schedule changes for the year** should be addressed as soon as possible.
- Students who fail an "A" portion of a class or a required class may have their schedule modified at their counselor's discretion for the 2<sup>nd</sup> or 3<sup>rd</sup> trimester.


# Cadillac High School Career Pathways



Career Pathway	CHS Courses Offered	CTC Courses
<div> </div> <p><b>Arts and Communication</b></p> <ul style="list-style-type: none"> <li>• Public relations</li> <li>• Digital media production</li> <li>• Media broadcasting</li> <li>• Film production</li> <li>• Journalism</li> <li>• Advertising</li> <li>• Interpreter</li> <li>• Architectural design</li> <li>• Photojournalism</li> <li>• Storyboarding</li> </ul>	<ul style="list-style-type: none"> <li>• Art Exploration</li> <li>• Studio Art</li> <li>• Drawing</li> <li>• Painting</li> <li>• Photography</li> <li>• Digital Photography</li> <li>• Fundamentals of Art</li> <li>• Advanced Studio Art</li> <li>• Performing Arts (band, choir, orchestra)</li> <li>• Forensic Speaking</li> <li>• Basic Communication</li> <li>• Oral Communication (DE)</li> <li>• Creative Writing</li> <li>• History of Rock and Roll</li> <li>• Web Design</li> <li>• Computer Digital Imaging and Photoshop</li> <li>• World Languages</li> </ul>	<ul style="list-style-type: none"> <li>• Digital Media Production</li> <li>• Business Management &amp; Administration</li> <li>• Hospitality, Retailing &amp; Entrepreneurship</li> </ul>


Career Pathway	CHS Courses Offered	CTC Courses
 <p style="text-align: center;"><b>Business, Management, Marketing &amp; Technology</b></p> <ul style="list-style-type: none"> <li>● Accounting</li> <li>● Office administration</li> <li>● Entrepreneur</li> <li>● Human resources</li> <li>● Hospitality management</li> <li>● Marketing</li> <li>● Sales</li> <li>● Finance</li> <li>● Computer programming</li> </ul>	<ul style="list-style-type: none"> <li>● Accounting</li> <li>● Personal Finance</li> <li>● Statistics</li> <li>● Trigonometry</li> <li>● Pre-Calculus</li> <li>● AP Calculus</li> <li>● Introduction to Computer Science</li> <li>● Entrepreneur 101</li> <li>● Forensic Speaking</li> <li>● Basic Communication</li> <li>● Oral Communication (DE)</li> <li>● International Relations</li> <li>● Psychology</li> <li>● Current Events and World Affairs</li> <li>● Career Leadership</li> <li>● World Languages</li> </ul>	<ul style="list-style-type: none"> <li>● Hospitality, Retailing &amp; Entrepreneurship</li> <li>● Business Management Administration</li> <li>● Computer, Networking &amp; Electronics</li> </ul>

Career Pathway	CHS Courses Offered	CTC Courses
 <p style="text-align: center;"><b>Engineering, Manufacturing &amp; Industrial Technology</b></p> <ul style="list-style-type: none"> <li>● Architecture</li> <li>● Engineering</li> <li>● Precision production</li> <li>● Manufacturing</li> <li>● Drafting</li> <li>● Construction</li> <li>● Robotics</li> <li>● Cybersecurity</li> <li>● Surveyor</li> </ul>	<ul style="list-style-type: none"> <li>● Introduction to Robotic Science</li> <li>● Concepts of Engineering</li> <li>● Science Olympiad</li> <li>● Woodworking</li> <li>● Metal Fabrication</li> <li>● BoardSport Engineering</li> <li>● Career Leadership</li> <li>● Statistics</li> <li>● Pre-Calculus</li> <li>● AP Calculus</li> <li>● Trigonometry</li> <li>● Introduction to Computer Science</li> </ul>	<ul style="list-style-type: none"> <li>● Applied Construction Technology</li> <li>● Automotive Technology</li> <li>● Computer, Networking &amp; Electronics</li> <li>● Engineering Tech</li> <li>● Heavy Equipment Mechanics</li> <li>● Metal Fabrication &amp; Welding</li> <li>● Power Sports and Equipment</li> </ul>

Career Pathway	CHS Courses Offered	CTC Courses
 <p><b>Health Sciences</b></p> <ul style="list-style-type: none"> <li>● Dentistry</li> <li>● Medical technology</li> <li>● Nursing</li> <li>● Medicine</li> <li>● Therapy and rehabilitation</li> <li>● Medical records</li> <li>● Pharmacy</li> <li>● Hospice care</li> <li>● Senior assistance</li> <li>● Mortuary science</li> <li>● Medical assistant</li> <li>● Nursing assistant</li> </ul>	<ul style="list-style-type: none"> <li>● Physics A and B</li> <li>● Chemistry A and B</li> <li>● Human Biology</li> <li>● Anatomy and Physiology</li> <li>● Genetics and Bioethics</li> <li>● AP Chemistry</li> <li>● Statistics</li> <li>● Pre-Calculus</li> <li>● Psychology</li> <li>● AP Psychology</li> <li>● Career Leadership</li> </ul>	<ul style="list-style-type: none"> <li>● Introduction to Health Care</li> <li>● Health Science Careers</li> <li>● Business Management Administration</li> </ul>



Career Pathway	CHS Courses Offered	CTC Courses
 <p><b>Human Services</b></p> <ul style="list-style-type: none"> <li>• Education</li> <li>• Child and family services</li> <li>• Counseling</li> <li>• Law and legal studies</li> <li>• Law enforcement</li> <li>• Cosmetology</li> <li>• Food service</li> <li>• Public service</li> </ul>	<ul style="list-style-type: none"> <li>• Basic Communication</li> <li>• Oral Communication (DE)</li> <li>• History of Law</li> <li>• Government</li> <li>• Sociology</li> <li>• Michigan History</li> <li>• International Relations</li> <li>• Current Events</li> <li>• Psychology</li> <li>• AP Psychology</li> <li>• World Languages</li> <li>• Career Leadership</li> </ul>	<ul style="list-style-type: none"> <li>• Public Safety</li> <li>• Hospitality, Retailing &amp; Entrepreneurship</li> <li>• Business Management Administration</li> </ul>

Career Pathway	CHS Courses Offered	CTC Courses
 <p><b>Natural Resources and Agriscience</b></p> <ul style="list-style-type: none"> <li>• DNR</li> <li>• Agriculture</li> <li>• Forestry</li> <li>• Fisheries management</li> <li>• Environmental science</li> <li>• Veterinary science</li> <li>• Landscape design</li> </ul>	<ul style="list-style-type: none"> <li>• Astronomy</li> <li>• Chemistry A and B</li> <li>• AP Chemistry</li> <li>• Field Ecology</li> <li>• Vertebrate Biology</li> <li>• Michigan History</li> <li>• Basic Communication</li> <li>• Oral Communications (DE)</li> <li>• Statistics</li> <li>• Trigonometry</li> <li>• Pre-Calculus</li> <li>• Career Leadership</li> </ul>	<ul style="list-style-type: none"> <li>• Agriscience</li> <li>• Public Safety</li> <li>• Introduction To Health Care</li> <li>• Health Science Careers</li> </ul>

## Electives Offered by Grade Level



### Art and Communication

Course Name	Grade 9	Grade 10	Grade 11	Grade 12
Art Exploration	x	x	x	x
Basic Communication	x	x	x	x
Computer Digital Imaging	x	x	x	x
Drawing	x	x	x	x
Forensic Speaking	x	x	x	x
Painting	x	x	x	x
Music (Instrumental/Vocal)	x	x	x	x
Studio Art	x	x	x	x
Web Design	x	x	x	x
World Languages	x	x	x	x
Fundamentals of Art		x	x	x
Creative Writing		x	x	x
Digital Photography		x	x	x
Advanced Studio Art			x	x
History of Rock and Roll			x	x
Oral Communication (DE)			x	x
Photography			x	x



## Business Management, Marketing & Technology

Course Name	Grade 9	Grade 10	Grade 11	Grade 12
Career Leadership	x	x	x	x
Basic Communication	x	x	x	x
Current Events	x	x	x	x
Forensic Speaking	x	x	x	x
Introduction to Computer Science	x	x	x	x
Personal Finance	x	x	x	x
World Languages	x	x	x	x
Accounting		x	x	x
International Relations		x	x	x
Business Entrepreneurship		x	x	x
Oral Communication (DE)			x	x
AP Psychology			x	x
Pre-Calculus			x	x
Psychology			x	x
Statistics			x	x
Trigonometry			x	x
AP Calculus				x



## Engineering/Manufacturing & Industrial Technology

Course Name	Grade 9	Grade 10	Grade 11	Grade 12
Career Leadership	x	x	x	x
Introduction to Computer Science	x	x	x	x
Introduction to Robotics	x	x	x	x
Metal Fabrication	x	x	x	x
Science Olympiad	x	x	x	x
Woodworking	x	x	x	x
BoardSport Engineering		x	x	x
Physics		x	x	x
AP Physics			x	x
Concepts of Engineering			x	x
Pre-Calculus			x	x
Statistics			x	x
Trigonometry			x	x



## Health Sciences

Course Name	Grade 9	Grade 10	Grade 11	Grade 12
Career Leadership	x	x	x	x
Human Biology	x	x	x	x
Chemistry A and B		x	x	x
Physics A and B			x	x
Anatomy and Physiology		x	x	x
Genetics and Bioethics		x	x	x
AP Chemistry			x	x
AP Physics			x	x
Statistics			x	x
Pre-Calculus			x	x
AP Calculus				x
Psychology			x	x
AP Psychology			x	x



## Human Services

Course Name	Grade 9	Grade 10	Grade 11	Grade 12
Career Leadership	x	x	x	x
Basic Communication	x	x	x	x
Current Events	x	x	x	x
World Languages	x	x	x	x
Oral Communication (DE)			x	x
History of Law			x	x
Government			x	x
Sociology			x	x
Michigan History			x	x
International Relations			x	x
Psychology			x	x
AP Psychology			x	x



## Natural Resources and Agriscience

Course Name	Grade 9	Grade 10	Grade 11	Grade 12
Career Leadership	x	x	x	x
Astronomy	x	x	x	x
Field Ecology	x	x	x	x
Basic Communication	x	x	x	x
Chemistry A and B		x	x	x
Vertebrate Biology		x	x	x
AP Chemistry			x	x
Michigan History			x	x
Oral Communication (DE)			x	x
Statistics			x	x
Trigonometry			x	x
Pre-Calculus			x	x



# Applied and Visual Arts Department

## Visual Arts Department Philosophy

The goal of the visual arts department is to foster student learning and to assist students in becoming better problem solvers as well as more effective critical thinkers. Students in visual arts courses will apply knowledge, materials, tools, and skills to solve practical problems and produce successful pieces of artwork. We endeavor to challenge students so as to enhance their self-confidence so that they may grow personally and artistically. We strive to create a positive, enjoyable environment so that every student may grow in their understanding and appreciation for art as well as their creativity.

### Objectives:

A student who actively participates in classes within the Visual Department will be able to...

1. Develop skills related to the use of tools and materials and learn to create in art.
2. Develop proper attitudes toward work and daily relationships with others.
3. Have an understanding and appreciation of artistic perception of visual art by developing skills in processing, analyzing and responding to sensory information through the language and skills of art
4. Through the study of the history and culture context of art, students will learn to appreciate the unique role that the arts play in the recording of history and influence they have played upon our cultural and moral development.
5. Through the development of skills in production of art, students will learn to respond, analyze and critique theirs and their peer's performance.
6. By developing their understanding of visual art students will be able to connect and apply their learning in the arts across many subject areas.

## Industrial Arts Department Philosophy

The primary purpose of our courses is to help develop technologically literate individuals. Students in Industrial Technology courses will apply knowledge, materials, tools, and skills to solve practical problems and extend human capabilities. Furthermore, our courses will strive to build self-esteem in the students participating in our course activities and projects.

### Objectives:

1. To develop skills related to the use of tools, machines, and materials.
2. To develop proper attitudes concerning health and safety.
3. To develop proper attitudes toward work and daily relationships with others.
4. To acquire a knowledge of processes and other technical information which will enable the student to follow a logical plan and/or procedure, to estimate the cost of projects and to make mathematical computations that relate to the work.
5. To help the students take the concepts learned in Industrial Technology and apply them to everyday living.
6. To develop abilities and interests that will lead to leisure time activities.

## **ART EXPLORATION (0.5 Credit)**



### **DESCRIPTION:**

This is a one term, project based, basic course designed to expose the novice to the elements and principles of art through introductory level exploration of a variety of mediums and techniques. The Art Exploration student will experience simple decision making problems which will begin to build higher level thought processes and creativity. By introducing drawing, painting and sculpture, the Art Exploration student will gain basic knowledge of each art medium. This course may be taken multiple times.

GRADE LEVEL: 9-12

## **STUDIO ART (0.5 Credit)**



### **DESCRIPTION:**

This is a one term, project based course designed to provide a more advanced student exposure to the elements and principles of art through a variety of mediums and techniques. This course is designed for a student with more advanced skills than the Art Exploration student. Art production will be stressed. The Studio Art student will experience more complex decision making problems which will build higher level thought processes and creativity. By in depth exploration of drawing, painting, sculpture, and a variety of media, the Studio Art student will gain more in depth knowledge of each art aspect in order to better decide on continuation of art study. This course may be taken multiple times.

GRADE LEVEL: 9-12

## **DRAWING (0.5 Credit)**



### **DESCRIPTION:**

This is a one term course designed to further develop the skills, knowledge, and techniques of the art student through a more in depth study of the elements and principles of art through focus on more advanced drawing projects than presented in Art Exploration. All projects will be drawing projects, with various mediums explored. Critiques, aesthetics and appreciation will be implemented. This course may be taken multiple times.

GRADE LEVEL: 9-12

## **PAINTING (0.5 Credit)**



### **DESCRIPTION:**

This is a one term course designed to further develop the skills, knowledge, and techniques of the art student through a more in depth study of the elements and principles of art through focus on more advanced painting projects than presented in Art Exploration. All projects will be painting projects, with various mediums explored. Critiques, aesthetics and appreciation will be implemented. This course may be taken multiple times.

GRADE LEVEL: 9-12

## **PHOTOGRAPHY (0.5 Credit)**



### **DESCRIPTION:**

This challenging one term class is designed for the aspiring film photographer. Basic 35mm film camera operation and Black and White negative development and print processing will be stressed. With both classroom work and darkroom experience provided, the student will develop photography skills to use as a hobby, artistic outlet, or career goal. Students **MUST** have available for use a 35mm camera with adjustable f/stop and shutter speed capabilities.

**NO AUTOMATIC 35mm CAMERAS ALLOWED.** Some school owned cameras are available on a first come basis. See instructor the first day of class.

Lab Fee: \$30.00

GRADE LEVEL: 11-12

## **FUNDAMENTALS OF ART (0.5 Credit)**



### **DESCRIPTION:**

This challenging one term course is designed to further develop and deepen the knowledge of art theory through in depth study of the elements and principles of art. This course will focus solely on production of element and principle journal pages, with some possible study of art history, and will provide the only path toward the Advanced Studio Art course.

GRADE LEVEL: 10, 11, 12

PREREQUISITE: Required Art Exploration with a B or better and permission of instructor, or Studio Art with a C or better.

## **ADVANCED STUDIO ART (0.5 Credit)**



### **DESCRIPTION:**

Advanced Studio Art is a one term course designed as an independently guided studio class with competencies tested and displayed at a culminating Exhibition. The graduating student will have developed significant skill in the production of artwork using a variety of mediums, and an advanced level of appreciation for art in their personal and/or professional futures. This course may be taken multiple times.

GRADE LEVEL: 11, 12

PREREQUISITE: Fundamentals of Art with a C or better.

## **DIGITAL PHOTOGRAPHY (0.5 Credit)**



### **Description:**

This course will help students become well rounded in the fundamentals of digital photography. Each student must create a photography journal to demonstrate an understanding of the lessons we cover and participate in an art/digital photography show at the end of the trimester. Students may use their own digital cameras as long as they fit the class criteria. Those who do not have a camera will be provided with a school issued camera and may be required to share with another student. Students are encouraged to take cameras home but are required to bring the camera to school every day. Any lost or stolen cameras or equipment are the responsibility of the student and must be replaced if lost or stolen.

GRADE LEVEL: 10-12

## COMPUTER DIGITAL IMAGING AND PHOTOSHOP (0.5 Credit)



### DESCRIPTION:

This course is designed to teach students how to navigate Photoshop's interface using tools, panels and shortcut keys, crop and resize images, work with color, edit and manipulate images and text. Students will also learn how to combine aspects of multiple images to create a single professional image. This course will instruct students how to work and organize layers, paint with several tools, add text to images, and to create and use gradients. They will learn to use the Content-Aware feature to remove objects from images without leaving an empty space.

GRADE LEVEL: 9-12

## BEGINNING WOODWORKING A AND B (1.0 Credit)



### DESCRIPTION:

Woodworking 1 is for any 9-12 grade student who desires a basic woodworking experience. Students will learn: 1) tool identification and uses, 2) wood fasteners, 3) characteristics of woods, 4) finishing of woods - using sandpaper, paints, stain, clear finishes, etc., and 5) floor machine operations. Students will also gain a wealth of knowledge during classroom discussions on techniques and tips. Proper attire and safety is emphasized throughout the course and students will need to display *good work ethics*. Students will build a quality project while applying the many skills learned in the class. Students are responsible for all fees associated with the project (financial assistance available based on need). Students enrolled in A are expected to continue with Woodworking I B.

GRADE LEVEL: 9-12

## INTERMEDIATE WOODWORKING A and B (1.0 Credit)



### DESCRIPTION:

This is an advanced course designed to give the student the opportunity to become more skilled and knowledgeable in the areas of: 1) design, 2) safety, 3) machines and tools, 4) cabinet and furniture making, and 5) finishing. Students will display proper safety standards and good work ethics. Students are expected to improve upon the skills they learned in beginning woods. Students are responsible for all fees associated with the building of their project (financial assistance available based on need). Students enrolled in A are expected to continue with Woodworking 2 B.

GRADE LEVEL: 10-12

PREREQUISITE: Beginning Woodworking A and B

## ADVANCED WOODWORKING A and B (1.0 Credit)



### DESCRIPTION:

The objective of this course is to allow the student to explore his/her area of interest in cabinet making, furniture, boat building, etc. Students are expected to be able to work more independently and display good work ethics. Student projects will be more complex in

comparison to Woodworking I and 2. Students are responsible for all fees associated with the building of their project.

GRADE LEVEL: 11-12

PREREQUISITE: Intermediate Woodworking A and B

### **METAL FABRICATION (0.5 Credit)**



#### **DESCRIPTION:**

This course is designed to teach students basic safety, principles, practices, and applications of SMAW, GMAW, and OXY welding. This course covers welding trade theory including safety, tool usage, equipment setup and standard terms and definitions. Basic welding and cutting techniques in the flat and horizontal position, tank safety, and welding safety will be taught. The student will learn many welding related skills in the program. This class is highly project oriented and predominantly a hands on class. Students will have to display a high level of good work ethics.

GRADE LEVEL: 9-12

### **BOARDSPORT ENGINEERING (0.5 Credit)**



#### **DESCRIPTION:**

This course will introduce students to the design, planning and construction process of building board sports equipment. Projects may include the construction of a longboard/skateboard and/or snowboard. Students will work individually and in groups and must demonstrate a strong work ethic.

GRADE LEVEL: 10-12

PREREQUISITE: Beginning Woodworking A and B preferred but not required

# Business and Computer Science Department

The role of the Business Education Department is to maintain a curriculum which is designed to meet the needs of: 1. Those students who wish to enter the business world upon completion of their high school courses; 2. Those students who wish to take preparatory courses which will enable them to qualify for the advanced training at the Wexford-Missaukee Vocational School; and 3. Those students who plan to continue their education at the college or university level.

## Objectives:

1. Make a contribution to general education by providing worthwhile experiences for students to handle their business affairs successfully as well as becoming intelligent, productive citizens.
2. Provide students with knowledge about specialized vocational education and help them gain the skills needed for the achievement of vocational competencies to meet business entrance requirements.
3. Provide activities to develop the background needed by those students planning to major in the business area in college or vocational schools.
4. Stress the practical application of learning.
5. Encourage students to be informed consumers and law abiding citizens.
6. Develop in students the desire for good work habits -- neatness, accuracy, legibility, punctuality, and organization.
7. Help students make decisions about their careers, help them secure employment during high school and after graduation, and acquaint them with local job opportunities.



## PERSONAL FINANCE A (0.5 Credit)

### DESCRIPTION:

Introduces the role of business in the lives of individuals, consumers, workers, and citizens; provides an overview of economic systems with emphasis on the free enterprise system and the American Economy; explores the characteristics of business; explores international business, government's role in business, technology in the business setting, and legal and ethical business issues; examines consumer issues regarding money and money management, banking systems and services, paychecks and taxes relating to decisions, rights, responsibilities, and competencies of an individual; develops an awareness of the job market and opportunities including entrepreneurial; develops an understanding of the workplace and workforce; assists in the development of a career plan and employability skills.

\*This course may count as a senior math experience.

GRADE LEVEL: 9-12



## **PERSONAL FINANCE B (0.5 Credit)**

### **DESCRIPTION:**

Introduces the role of business in the lives of individuals, consumers, workers, and citizens; provides an overview of economic systems with emphasis on the free enterprise system and the American Economy; explores the characteristics of business; explores international business, government's role in business, technology in the business setting, and legal and ethical business issues; examines consumer issues regarding money and money management, banking systems and services, paychecks and taxes relating to decisions, rights, responsibilities, and competencies of an individual; develops an awareness of the job market and opportunities including entrepreneurial; develops an understanding of the workplace and workforce; assists in the development of a career plan and employability skills.

\*This course may count as a senior math experience.

GRADE LEVEL: 9-12



## **ACCOUNTING 1 A AND B (0.5 Credit)**

### **DESCRIPTION:**

Accounting 1 A is for students who desire to begin preparation for a career in accounting, careers in related business fields for which mastery of some accounting knowledge and skill is needed, and for students who wish to learn accounting for their own personal use. An individual should like to work with numbers in a neat and organized manner. This course focuses on completing the accounting cycle for a service and merchandising business. Students will learn accounting terminology, practices, and procedures for a service business. Each student will complete a set of books for a service business.

\*This course may count as a senior math experience.

GRADE LEVEL: Elective for grades 10-12

PREREQUISITE: None



## **WEB DESIGN AND DEVELOPMENT (0.5 Credit)**

**Not offered 2018-2019**

### **DESCRIPTION:**

The Web Design and Development curriculum is an introduction to the design, creation, and maintenance of web pages and websites. The course progresses from introductory work on web design to a culminating project in which students design and develop websites for actual or fictitious businesses or local community organizations. Students will progress from using XHTML, to incorporating CSS, to an introduction to web authoring software. This course establishes a solid foundation for students to continue their studies in Advanced Web Design and Development.

GRADE LEVEL: 9-12

## **CAREER LEADERSHIP (0.5 Credit)**



### **DESCRIPTION:**

This course is designed to prepare young people for the real world. Focusing on skills to break free from peer pressure and influence others in positive ways. Experience greater empathy and minimize bullying among students. Embrace a growth mindset that values hard work and resilience. Capitalize on personal strengths to be career-ready upon graduation. Develop critical thinking skills that produce better life choices, such as choosing healthy friends, improving study habits and setting goals.

GRADE LEVEL: 9-12

## **INTRODUCTION TO COMPUTER SCIENCE (0.5 Credit)**



### **Description:**

Students will experience the major topics, big ideas, and computational thinking practices used by computing professionals to solve problems and create value for others. This course will empower students to develop computational thinking skills while building confidence that prepares them to advance to higher level computer science courses.

\*This course may count as either a .50 math or science credit and may be used as a senior math experience.

GRADE LEVEL: 9-12

## **ENTREPRENEURSHIP 101 (0.5 Credits)**



### **Description:**

Students will gain knowledge of marketing, distribution, daily business functions, basic accounting principles & graphic design. This course includes functions of running a small business, advertising, & promoting goods and services. Students will be required to contribute extra hours outside of the instructional time to manage/run school store. Students must possess strong math & communication skills. Entrance into this class is competitive and limited.

\*This course may count as a senior math experience.

GRADE LEVEL: 11-12



# English Department

It is the goal of the CHS English staff to provide students with the following essential skills:

- the ability to use a variety of reading strategies to meet different needs.
- the ability to use writing to meet both public and personal needs effectively.
- the ability to enlarge their world and gain insights into the human condition through literature.
- the ability to listen effectively and think critically in order to make valid judgments.
- the ability to locate, evaluate, and use information from a wide variety of sources.

These skills will enable students to succeed in the business world, in higher education, and in personal satisfaction.

\*\*Elective courses do not satisfy the requirements for English credit under the Michigan Merit Curriculum.

## **ENGLISH 9 A and B (1.0 Credit)**

### **DESCRIPTION:**

This will be a broad-based class in which all students will be challenged. Students will learn to recognize classifications and structural elements of literature, to evaluate and react critically to what they read, to respond to literature with many kinds of writing, to develop many strategies for writing for different purposes, to develop appropriate study skills, and to use library facilities to locate, evaluate and use information.

CORE TEXT: The Odyssey, Romeo and Juliet, To Kill a Mockingbird

## **ENGLISH 10 A and B (1.0 Credit)**

### **DESCRIPTION:**

This will be a broad-based class in which all students will be challenged. Students will learn to recognize classifications and structural elements of literature, to evaluate and react critically to what they read, to respond to literature with many kinds of writing, to develop many strategies for writing for different purposes, to maintain a portfolio of their work in order to measure their own progress, to develop appropriate study skills, and to use library facilities to locate, evaluate and use information.

CORE TEXT: Julius Caesar, The Lord of the Flies, Twelve Angry Men, Antigone, Animal Farm, Of Mice and Men, A Separate Peace

## **HONORS ENGLISH 10 A and B (1.0 Credit)**

### **DESCRIPTION:**

This challenging class will meet all of the outcomes for English 10 with accelerated speed, supplemental materials, and emphasis on higher level thinking skills. Students will be expected to participate in a summer reading program and to engage in critical analysis of a variety of materials. In the area of writing skills, the class will emphasize expository and persuasive writing, developing a voice, improving clarity and following various patterns of organization. Students will work on research skills and write a research paper, topic and length to be determined by the instructor. Students will also invent and create in other forms of writing.

**PREREQUISITE:** Ninth graders may apply to enroll in Honors English 10 during scheduling for 10th grade. Placement into the course will be determined by a written test. Students who enroll in the course are required to do summer reading.

**CORE TEXT:** All those from English 10 as well as supplemental materials.

## **ENGLISH 11 A and B (1.0 Credit)**

### **DESCRIPTION:**

This will be a broad-based class in which all students will be challenged. Students will learn to recognize classifications and structural elements of literature, to evaluate and react critically to what they read, to respond to literature with many kinds of writing, to develop many strategies for writing for different purposes, to develop appropriate study skills, and to use library facilities to locate, evaluate and use information.

**MAJOR FOCUS:** American Literature

**CORE TEXT:** The Great Gatsby, The Catcher in the Rye, The Things They Carried, A Raisin in the Sun

## **HONORS ENGLISH 11 A and B (1.0 Credit)**

### **DESCRIPTION:**

This challenging class will meet all of the outcomes indicated for English 11 with accelerated speed, supplemental materials, and emphasis on higher level thinking skills. Students will be expected to participate in a summer reading program and to engage in critical analysis of a variety of materials. In the area of writing skills, the class will emphasize expository and persuasive writing, developing a voice, improving clarity, following various patterns of organization. Students will also have the opportunity to satisfy their need to invent and create in other forms of writing.

**PREREQUISITE:** Recommended grade of A/A- in previous English class and summer reading.

**CORE TEXT:** All of those from English 11, as well as supplemental materials.

## **ENGLISH 12: SHORT NOVELS AND WRITING A and B (1.0 Credit)**

### **DESCRIPTION:**

This class is designed to meet the needs of both college-bound and non-college-bound seniors. Students will read a number of short literary works, focusing on individual reactions to literature. They will create written responses to these works in the form of journals, study guides, tests and papers. Additionally, students will write papers of varying length and purpose. They will participate in a number of short research activities, focusing on summarizing and organizing information. The culmination of these activities will be a research paper of collegiate length.

**CORE TEXT:** A list of works covered is available from the English Department.

## **ENGLISH 12: COLLEGE PREP A and B (1.0 Credit)**

### **DESCRIPTION:**

This class is intended for college-bound seniors and will reflect a college pace. Students will read, discuss and write about a number of works from American, British and World literature. The writing tasks will focus on analysis and clear expression. Students will also develop and write research papers based on various books and library resources. Some papers of at least seven to ten typed pages will be required for passing the course.

PREREQUISITE: Recommended for students with a minimum B average in previous English classes.

CORE TEXT: A list of works covered is available from the English Department.

## **AP ENGLISH 12 LITERATURE & COMPOSITION A, B and C (1.5 Credits)**

### **DESCRIPTION:**

This class is intended for academically talented students who enjoy reading and writing and are willing to follow the guidelines indicated for the accelerated program. Students should be prepared to study intensively several representative works of recognized literary merit from various genre and periods, to sharpen their awareness of language and an understanding of the writer's craft, to develop critical standards for the independent appreciation of any literary work, and to use language honestly and effectively. Writing in this class will focus on the criteria and standards necessary for success on the AP exam, given each spring, which may enable students to gain college credit.

PREREQUISITE: Recommended grade of A/A- in previous English class and summer reading.

CORE TEXT: A list of works covered is available from the English Department.



## **CREATIVE WRITING (0.5 Credit)**

### **DESCRIPTION:**

Creative writing is designed for the student who wants to use his/her imagination and feelings in writing. It is an informal course with emphasis on creativity, technique, and personal understanding. Students will be required to pay a small fee to purchase a poetry book for this class.

GRADE LEVEL: Elective for grades 10-12



## **BASIC COMMUNICATION (0.5 Credit)**

### **DESCRIPTION:**

This course is designed to give the students the basic communication skills that a person should perfect for everyday life. Areas of concentration include the communication process, inter- and intra-personal communication, small group communication, one-to-many communication, the art of listening, persuasion, and the art of speaking. Students will perform in class as well as out-of-class communication exercises. Students may NOT elect this class if they have already taken ORAL COMMUNICATION.

GRADE LEVEL: Elective for grades 9-12



## **DE ORAL COMMUNICATION (0.5 Credit)**

### **DESCRIPTION:**

This course is designed to offer students the opportunity to earn college credit while increasing public speaking skills. Students must apply for college admission and follow all collegiate prerequisites in order to take this course. Students will perform a minimum of six oral presentations which will include selections from the following: introduction, impromptu, persuasive, demonstration, informative, and group civic engagement. One speech must address global awareness and/or cultural diversity. Speech lengths and research expectations will be that of a college level course. The focus of speech preparation will be on credible research and effective outline preparation. Visual aid preparation also will be expected on many of the speeches in the trimester. A minimum grade average of B- in high school English is recommended prior to electing this course and a minimum grade earned in the course is required to earn college credit. Students should expect to have out of class, online work weekly. Students do not have to take basic communication prior to taking oral communication, but they cannot take it afterwards.

GRADE LEVEL: Elective for grades 11-12

TEXT: The Art of Public Speaking, 11th Edition. Stephen E. Lucas. McGraw-Hill, INC.



## **FORENSIC SPEAKING (0.5 Credit)**

### **DESCRIPTION:**

This course is co-curricular and offers participation in individual speech performance events. Students will perform and compete in one of the following areas: Interpretive Reading (prose, storytelling, poetry, drama, duo, or multiple), Public Speaking (oratory, sales, or informative) or Limited Prep Speaking (broadcasting, extemporaneous or impromptu). This is a co-curricular class; students should be aware that most competitions take place on Saturdays throughout the State. Students may take this course for multiple years.

GRADE LEVEL: Elective for grades 9-12

## **PSAT/SAT TEST PREP (0.5 Credit)**

### **DESCRIPTION:**

This course is designed for students seeking extra support and preparation for the PSAT and SAT tests. Students will utilize Khan Academy, an intuitive program which adapts to specific student needs in the area of math and English. Students are expected to complete all required work and put forth effort each day.

GRADE LEVEL: 10 - 11

# Health and Physical Education

Our philosophy in physical education is to help the students realize their physical potential through a variety of individual and team lifelong activities, as well as weightlifting and conditioning.

## **Objectives:**

1. To have each student dress properly everyday for class. This includes t-shirt, shorts, and tennis shoes.
2. To have each student be cooperative, work hard, and have a good attitude in class.
3. To stress basic fundamentals of physical fitness, health, and diet.
4. To show basic life skills that each student can take with them after they leave high school.

## **HEALTH (0.5 Credit)**

### **DESCRIPTION:**

Health is a one term course that covers mental health disorders, improving self-esteem, substance abuse, the life cycle, and career counseling. Through class discussions, activities, and projects, and computer work, students learn techniques to improve their overall health and future.

GRADE LEVEL: Requirement for all 9th graders

## **PHYSICAL EDUCATION (0.5 Credit)**

### **DESCRIPTION:**

Through Physical Education, students have the opportunity of an elective physical education program. Classes are co-educational and emphasis is placed on individual and team activities. This is a one-term class and students have the opportunity to choose which terms they want to take the class. May be taken more than once.

GRADE LEVEL: 9-12

REQUIRED EQUIPMENT: Shorts, T-shirt, socks, and tennis shoes.

## **STRENGTH & CONDITIONING (0.5 Credit)**

### **DESCRIPTION:**

Emphasis is placed upon developing strength through weight lifting utilizing a variety of lifts and proper lifting techniques. Free weights and machines will be used equally. Agility, Speed Development, and Conditioning will be done through a variety of ways such as: form running, agility drills, dot drill, rope jumping, box jumps, ladders, and heavy medicine balls. May be taken more than once.

GRADE LEVEL: 9-12

REQUIRED EQUIPMENT: Shorts, T-shirt, socks, and tennis shoes.

## **PERSONAL FITNESS (0.5 Credit)**

### **DESCRIPTION:**

This class is designed for students interested in achieving healthy levels of fitness and wellness through a variety of activities. Activities may include: yoga, dance, Zumba, Tabata, Pilates and other fitness programs that are designed to improve cardiovascular fitness, muscular strength/endurance, body composition, and flexibility. May be taken more than once.

GRADE LEVEL: 9-12

# Mathematics Department

On the precedent that mathematics is fundamental to every individual, the Mathematics Department exists to enlighten, encourage, and develop desirable attitudes, appreciations, and practical aspects of mathematics.

## **Objectives:**

1. The student will have confidence in his ability to deal with math in the real world.
2. The student will be able to use problem solving techniques to solve problems.
3. The student will be able to apply math concepts in his daily life.

## **ALGEBRA I A and B (1.0 Credit)**

### **DESCRIPTION:**

Algebra is designed to give the student both the theory and practice essential in understanding the structure and applications of the real number system. Emphasis is on problem solving using algebra skills such as solving linear equations and graphing.

GRADE LEVEL: 9

PREREQUISITE: Teacher/counselor recommendation

## **EXTENDED ALGEBRA I A, B and C (1.5 Credits)**

### **DESCRIPTION:**

This class is specifically designed to assist students who need concentrated and more individualized help in meeting the outcomes for Algebra. Algebra is designed to give the student both the theory and practice essential in understanding the structure and applications of the real number system. Emphasis is on problem solving using algebra skills such as solving linear equations and graphing.

GRADE LEVEL: 9

PREREQUISITE: Teacher/counselor recommendation

## **GEOMETRY A and B (1.0 Credit)**

### **DESCRIPTION:**

Geometry is the study of two and three-dimensional figures. The course includes the study of transformations, proofs, congruence, similarity, triangles, quadrilaterals, area, and volume.

GRADE LEVEL: 9-10

PREREQUISITE: Successful completion of Algebra I.

## **EXTENDED GEOMETRY A, B and C (1.5 Credits)**

### **DESCRIPTION:**

This class is specifically designed to assist students who need concentrated and more individualized help in meeting the outcomes for Geometry. Geometry is the study of two and three-dimensional figures. The course includes the study of transformations, proofs, congruence, similarity, triangles, quadrilaterals, area, and volume.

GRADE LEVEL: 10

PREREQUISITE: Completion of Algebra I Extended and teacher/counselor recommendation.

## **ALGEBRA II A and B (1.0 Credit)**

### **DESCRIPTION:**

This course includes the study of linear and quadratic equations, functions, sequences, rational and irrational numbers, complex numbers and their applications. This course also incorporates the study of logarithms and right triangle trigonometry to solve problems. Emphasis is on the relationship between the algebraic expression and its graphical representation. A graphing calculator is required.

GRADE LEVEL: 10-11

PREREQUISITE: Successful completion of Geometry

## **EXTENDED ALGEBRA II A, B, C, and D (2.0 Credits over 2 years)**

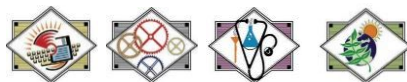
### **DESCRIPTION:**

This class is specifically designed to assist students who need concentrated and more individualized help in meeting the outcomes for Algebra 2. This course includes the study of linear and quadratic equations, functions, sequences, rational and irrational numbers, complex numbers and their applications. This course also incorporates the study of logarithms and right triangle trigonometry to solve problems. Emphasis is on the relationship between the algebraic expression and its graphical representation. A graphing calculator is required.

GRADE LEVEL: 11-12

PREREQUISITE: Completion of Extended Geometry and teacher/counselor recommendation

## **STATISTICS (0.5 Credit)**



### **DESCRIPTION:**

Statistics is a one term course designed for college bound students. Students will collect, analyze, describe, interpret, and model numerical data through their study of statistics. A graphing calculator is required.

GRADE LEVEL: 11-12

PREREQUISITE: Successful completion of Algebra 2



## TRIGONOMETRY (0.5 Credit)



### DESCRIPTION:

Trigonometry is a one term course designed for college bound students. Traditional topics of trigonometry and several different “families” of functions are studied along with their real-world applications.

GRADE LEVEL: 11-12

PREREQUISITE: Successful completion of Algebra 2

## PRE-CALCULUS A and B (1.0 Credit)



### DESCRIPTION:

Pre-Calculus is a course intended for the college-bound student who intends to pursue a degree in a mathematical or science related field. The course lays the foundation for success in AP Calculus by emphasizing college algebra, trigonometry, vectors, polar coordinates, parametric equations, and limits.

GRADE LEVEL: 11-12

PREREQUISITE: Algebra 2 (B+ or better recommended)

## ADVANCED PLACEMENT CALCULUS A, B and C (1.5 Credits)



### DESCRIPTION:

Calculus is intended for students who are planning on pursuing a degree in college which requires Calculus. A student may earn college credit by taking the AP exam in May. Emphasis is placed on limits, differentiation, and integration. This course is equivalent to a full year of a college calculus course. A graphing calculator is required.

GRADE LEVEL: 12 ONLY

PREREQUISITE: Pre-Calculus (B or better and teacher recommendation)

TEXT: Calculus - Single Variable, 2nd ed. by Hughes Hallet, Gleason

# Performing Arts Department

Active involvement in musical activities contributes to the growth of the individual through the development of his innate aesthetic potential. Music Education functions in the realm of aesthetic education when individuals are encouraged to perceive music keenly, to react to it, evaluate it intelligently, and to value it deeply.

## **Objective:**

The objective of the school, through the Performing Arts Department, is to offer a music education program that meets a wide range of student needs. This is done by providing opportunities for students to acquire tools and competencies which they may use in and out of school and by stimulating their appetites for continued growth in musicianship and in their ability to function freely in new musical experiences.

## **MARCHING BAND (0.5 Credit)**



### **DESCRIPTION:**

Marching Band will offer students marching experiences. Activities will include several marching events including M.S.B.O.A District Festival, exhibitions, parades, all home football games, and possibly play-off games. There will be a required Marching Band Camp prior to the start of school, plus several extra rehearsals each week during marching season. All after-school sectionals and performances are required.

GRADE LEVEL: 9-12 (first term only)

PREREQUISITE: Must possess musical ability of a highschool student and approval of the director.

## **COLOR GUARD (0.5 Credit)**



### **DESCRIPTION:**

This is designed for students who are interested in marching with the HS Marching Band in an auxiliary capacity. Auditions for the HS Color Guard will take place in the spring the previous school year. All guard members selected must be in attendance at the Marching Band's summer camp (prior to the start of school). All scheduled after-school sectionals and performances are required.

GRADE LEVEL: Elective for grade 9-12 (first term only)

PREREQUISITE: Audition and approval of director.

## **SYMPHONY BAND A and B (1.0 Credit)**



### **DESCRIPTION:**

Symphony Band is designed for students with advanced ability who are interested in performing moderately advanced high school literature. Students in this ensemble must be enrolled for the entire year. All performances, MSBOA Band Festivals, Christmas Concerts, and scheduled sectionals are required.

GRADE LEVEL: 9-12 (second and third terms only)

PREREQUISITE: Must possess musical ability of a highschool student and approval of the director.

## **STRING ORCHESTRA A, B and C (1.5 Credits)**



### **DESCRIPTION:**

Students will study a variety of literature from Baroque to Contemporary periods. Students will also receive training in sight reading, music theory, music history, and proper technique. All performances are required.

GRADE LEVEL: 9-12

PREREQUISITE: Must possess musical ability of a highschool student.

## **CHORALE A, B and C (1.5 Credits)**



### **DESCRIPTION:**

Chorale is a high school performing group, designed for students who desire to seriously study beginning to intermediate levels of music. The repertoire consists of diverse genres ranging from Renaissance and Baroque to contemporary composers. Students will develop and become proficient in areas of music theory, history, and literacy, as well as sight singing and performance. Chorale singer requirements include performance in MSVMA events and several school and community events. One year of eighth grade choir or one trimester of HS Chorale, Band or Orchestra is required in order to be in Second Trimester Chorale. Trimesters one and three do not require this.

GRADE LEVEL: 9-12

PREREQUISITE: Recommendation of director

## **HONORS CHOIR A, B and C (1.5 Credits)**



### **DESCRIPTION:**

The Honors Choir is a select performing group, designed for students with advanced vocal ability and skill. Honors Choir performs a varied repertoire of advanced compositions ranging from madrigal, classical, and sacred selections to contemporary and a cappella selections. Students will develop and hone proficiency in sight singing and ensemble performance as well as music theory, history, and literacy. The Honors Choir entails involvement in several MSVMA, school and community concerts throughout the year. Members are required to perform in all concerts.

GRADE LEVEL: 9-12

PREREQUISITE: **By audition** and director approval only

# Science Department

Through our science curriculum we attempt to develop people who are perceptive, logical-thinking, adaptive and interested in science.

## Objectives:

1. To create a scientific awareness and appreciation in each student and in the community at large.
2. To encourage independent thinking through scientific methods and experimentation.
3. To prepare the science-oriented student with a good background for further work and study.
4. To stress basic facts and scientific principles and their appreciation in everyday life.

## Pathways

In order to meet the 2022 graduation requirements for science under the Michigan Merit Curriculum students at CHS are required to take the following courses before the end of their 2nd trimester their junior year. Students looking to take upper level science courses such as AP courses are encouraged to take Intro to Chemistry, Intro to Physical Science and Earth Science their 9th grade year.

- Intro to Chemistry (0.5 Credit)
- Intro to Physical Science (0.5 Credit)
- Earth Science (0.5 Credit)
- Biology A and B (1.0 Credit)
- Elective Science course (0.5 Credit)

## INTRO TO CHEMISTRY (0.5 Credit)

### DESCRIPTION

This required course is focused on introducing students to core concepts in matter, and energy. Students will engage in problem-solving and application of using models and carrying out investigations.

GRADE LEVEL: Required grade 9

## INTRO TO PHYSICAL SCIENCE (0.5 Credit)

### DESCRIPTION

This required course is focused on introducing students to core concepts in forces, motion and waves. Students will engage in planning and carrying out investigations while using mathematical computation to analyze and interpret data.

GRADE LEVEL: Required grade 11

## **EARTH SCIENCE (0.5 Credit)**

### **DESCRIPTION:**

This required course is designed to introduce the basic concepts of space, earth and energy to students without using the complex mathematical equations common to a traditional high school earth science program. Inquiry-based investigation is used whenever possible to reinforce the concepts presented.

GRADE LEVEL: Required grade 9

## **BIOLOGY A AND B (1.0 Credit)**

### **DESCRIPTION:**

The goal of this required Biology course is to help the students become scientifically literate people able to understand real-world events and systems. General course objectives include: science as a process, reflecting on scientific knowledge, cells, organization of living things, macromolecules, heredity, evolution and ecosystems. This science class will expose students to the relationship of living things and emphasize science as a process.

GRADE LEVEL: 9-11

## **PHYSICS A AND B (1.0 Credit)**



**Not offered 2018-2019**

### **DESCRIPTION:**

This required course is designed to introduce the basic concepts of constant velocity motion, accelerated motion, forces, and energy to students without using the complex mathematical equations common to a traditional high school physics program. Inquiry-based investigation and model development are used whenever possible to help students develop skills and engage concepts.

GRADE LEVEL: 11-12

## **CHEMISTRY A AND B (1.0 Credit)**



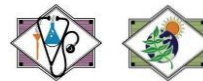
### **DESCRIPTION:**

Chemistry is a thinking class – an experience in logic and understanding. There is some memorization but most of the work involves comprehending principles like modern atomic theory, thermodynamics, and various laws of chemistry. Many experiments are performed giving a first-hand look at chemistry in action. This is an excellent class for college-bound students.

GRADE LEVEL: 10-12

PREREQUISITE: Successful completion of Biology; Algebra II recommended but not required

## **ADVANCED PLACEMENT CHEMISTRY A, B and C (1.5 Credits)**



### **DESCRIPTION:**

The object of AP Chemistry is to continue preparing the students for the study of science in a college system and to pass the AP Chemistry Exam. In our study of Chemistry, we will use many techniques for obtaining and analyzing information and incorporating this information in problem solving. The laboratory experience is vital to this endeavor.

GRADE LEVEL: 11-12

PREREQUISITE: Complete Chemistry; and Algebra II

TEXT: Chemistry the Central Science, 10th ed. Brown & LeMay.

## **ADVANCED PLACEMENT PHYSICS A, B and C (1.5 Credits)**



**Not offered 2018-2019**

### **DESCRIPTION:**

This course is designed for those who wish to develop critical thinking and problem solving skills through exploring physical systems. Through reliable evaluation techniques and interpretation strategies, students can develop a deep conceptual understanding of the concepts. In addition, students will be asked to explore the history and philosophy of the concepts they learn in order to develop views related to the Nature of Science. This will be achieved through the study of motion, forces, and energy.

Students who successfully complete this course will be well equipped to take the AP Physics C (Mechanics) Exam for college credit.

GRADE LEVEL: 11-12

PREREQUISITE: Physics

## **HUMAN BIOLOGY (0.5 Credit)**



### **DESCRIPTION:**

Human Biology is a study of the human body with emphasis on anatomy, diseases, and good health practices. This course includes lab work and may not be taken if you have successfully completed Anatomy and Physiology.

GRADE LEVEL: 9-12

PREREQUISITE: May not be taken if student has already taken Anatomy and Physiology

## **FIELD ECOLOGY (0.5 Credit)**



### **DESCRIPTION:**

Class time will be divided between freshwater marine and environmental ecology. Food chains, population dynamics, energy, plant/animal relationships, and pollution will be covered.

GRADE LEVEL: 9-12

## **VERTEBRATE BIOLOGY (0.5 Credit)**



### **DESCRIPTION:**

This is an in-depth study of the major groups of animals with emphasis on anatomy, classification, and economic importance. This course includes lab work, dissecting, and projects.

GRADE LEVEL: 10-12

## **ANATOMY & PHYSIOLOGY A and B (1.0 Credit)**



### **DESCRIPTION:**

Anatomy and Physiology is a college preparatory course and requires serious study habits. Topics that will be covered include: cells, tissues, muscles, digestion, respiration, nervous system, cardiovascular system, skeletal system, human reproduction, and genetics. Dissection of the cat is a large part of the class. Experimentation and lab techniques are required. Once this class has been successfully completed, you may not take Human Biology.

GRADE LEVEL: Elective for grades 10-12

PREREQUISITE: Biology (concurrently)

## **GENETICS AND BIOETHICS (0.5 Credit)**



**Not offered 2018-2019**

### **DESCRIPTION:**

This course emphasizes the relation between the underlying science of genetics, the study of genomes (genomics), and the social, ethical, and legal issues that this work gives rise to (genethics). Students investigate topics such as the history of genetic discovery and molecular lab techniques, and emerge with an understanding of the science and the technology behind breakthroughs like therapeutic cloning and the sequencing of the human genome. Throughout the course, students are able to investigate genetic variation and similarities and develop a structure for thinking about ethical issues.

GRADE LEVEL: 10-12

PREREQUISITE: Successful completion of Biology

## **CONCEPTS OF ENGINEERING (0.5 Credit)**



### **DESCRIPTION:**

This course will include a variety of projects that require students to work together in engineering teams to develop a design plan that meets specific criteria within certain constraints and then execute that plan to achieve the maximum performance. Students will also be exposed to several engineering careers as a variety of engineers come in to share their education, their experience, and their passion for what they do.

\*This course may count as either a .50 math or science credit and may be used as a senior math experience.

GRADE LEVEL: 11-12



## **SCIENCE OLYMPIAD (0.5 Credit)**

### **DESCRIPTION:**

This course exposes tomorrow's scientists to a broad group of sciences as well as encouraging academic competition. Science Olympiad events generally range from simple problem solving and experimental design to chemistry, physics and biology lab practicals to robot, plane and bridge building. This class is ideal for advanced science students, who are likely to pursue careers in science and would like to further their understanding of "how things work". Students in this course must be willing to participate in the regional Science Olympiad competition.

GRADE LEVEL: 9-12 (only runs 2nd trimester)



## **INTRO TO ROBOTIC SCIENCE (0.5 Credit)**

### **DESCRIPTION:**

LEGO® robotics uses elements of physics and engineering as a tool to explore robotics, mechanical systems, electronics, and programming. This class is primarily a lab experience which provides students with resources to design, build, and program functional robots constructed from LEGO®s and a few other parts such as motors and sensors. Lego robots can perform a wide variety of tasks, through a combination of robust design and clever programming.

GRADE LEVEL: 9-12



## **ASTRONOMY (0.5 Credit)**

### **DESCRIPTION:**

This one trimester course provides students with the opportunity to develop knowledge and understanding about the solar system, galaxy, and universe in which we live. Students use tools of observation to learn about space and learn how other astronomers past and present have used tools available. Areas of study include: the process of science, including use of the tools used to observe the sky; stellar astronomy and how stars change over time; and planetary astronomy and how interstellar spacecraft are obtaining information about other bodies in the solar system.

\*This course may count as either a .50 math or science credit and may be used as a senior math experience.

GRADE LEVEL: 9-12



# Social Studies Department

Social Studies attempts to acquaint students with a better understanding of themselves and the world in which they live; to show those things we have in common with others, while at the same time showing students their own uniqueness in a world that seems to have an abundance of sameness. Lastly, Social Studies should point out to the students their RIGHTS and RESPONSIBILITIES as intelligent, decision-making participants of the community.

## **Objectives:**

1. To be able to express oneself clearly and effectively both orally and in written form.
2. To be able to separate those statements of fact from fiction in making an objective decision.
3. To be able to relate the organized content of Social Studies to one's own life.

## **Values and Attitudes:**

1. To make a commitment to the preservation of rights, privileges and responsibilities of free man.
2. To realize we live in a dynamic society and that we must learn to recognize the need for change, to initiate it, and to adjust to it or modify it according to our American values.

## **CIVICS (0.5 Credit)**

### **DESCRIPTION:**

Civics will build on political concepts begun in elementary and junior high in preparation for high school. It will focus on a person's civic responsibility and structure of American government. Attention will be given to the study of the Constitution and America's overall political process.

GRADE LEVEL: Required for grade 9

## **ECONOMICS (0.5 Credit)**

### **DESCRIPTION:**

The study of Economics helps us deal with global and domestic economics issues. The course will focus on consumer, micro, and macro themes. We will also study how individuals, families, businesses, and societies use limited resources to fill unlimited wants. The course will be taught using real world examples applicable to the lives of our students.

GRADE LEVEL: Required for grade 9

## **WORLD HISTORY AND GEOGRAPHY A and B (1.0 Credit)**

### **DESCRIPTION:**

World History and Geography is a two-trimester required course for sophomores. Students will engage in an integrative study of historical and geographic themes, patterns, and concepts. They will examine world history eras through global, interregional, and regional lenses. Students will cultivate social studies skills, processes, and habits of mind such as research, inquiry and analysis. Content will include an overview of major eras of world history and will make connections to our world today. .

GRADE LEVEL: Required for grade 10

## **US HISTORY & GEOGRAPHY A 1877 - 1930 (0.5 Credit)**

### **DESCRIPTION:**

The purpose of this course is threefold:

1. To introduce students to the major economic, social, political, and intellectual movements between the years 1877 and the present.
2. To enable students to evaluate historical information and to make sound political, economic, and social decisions.
3. To engender students with a strong sense of history that will enable them to be integral members of a democratic country.

GRADE LEVEL: Required for grade 11

## **US HISTORY AND GEOGRAPHY B 1933 - Modern (0.5 Credit)**

### **DESCRIPTION:**

The purpose of this course is threefold:

1. To introduce students to the major economic, social, political, and intellectual movements between the years 1933 to the present.
2. To enable students to evaluate historical information and to make sound political, economic, and social decisions.
3. To engender students with a strong sense of history that will enable them to be integral members of a democratic country.

May be taken before US History A 1877-1930

GRADE LEVEL: Required for grade 11

## **HISTORY OF LAW (0.5 Credit)**



### **DESCRIPTION:**

History of Law offers students a practical understanding of law and the legal system. Students will gain an improved understanding of the fundamental principles and values underlying the U.S. Constitution and laws. Students will be exposed to a fundamental knowledge of criminal and civil law as it applies to their everyday life. Classroom discussion will be supplemented by special speakers, a courtroom visit, jail visit, and the study of related law cases.

GRADE LEVEL: 11-12



## **CURRENT EVENTS AND WORLD AFFAIRS (0.5 Credit)**

### **DESCRIPTION:**

The goal of a current events course is for the student to become aware of the major issues of the day and to have an in depth understanding and appreciation of current events. The focus of the class will be issues that affect the student as a resident of the World, the U.S., Michigan, and Cadillac. The class will follow daily news events and will be expected to understand the social, political and economic issues on a daily basis. Each week, the class will focus on the historical development of a current issue. The topic may start as news of the Middle East but will then trace the conflict between Israel and her neighbors. The objectives of this course are: to make the connection between current events and history, to enhance the student's understanding of world events, to encourage students to be informed citizens, and to help them to make intelligent decisions as they take their place in the panorama of history. Students will do papers on selected current topics.

GRADE LEVEL: 9-12



## **US GOVERNMENT (0.5 Credit)**

**Not offered 2018-2019**

### **DESCRIPTION:**

The general tenor of this course will be to offer a type of capstone experience for students. The course will first review key concepts from the 9th grade Civics curriculum. The bulk of the course will provide insight into state and local politics. Special attention will be given to topics which challenge both our state and our cities.

GRADE LEVEL: Elective for grades 10-12

## **HISTORY OF ROCK AND ROLL ERA (0.5 Credit)**

### **DESCRIPTION:**

This elective course examines the historical origins and evolution of rock and roll music within the context of cultural, social, political and economic history, elaborating on the pervasiveness and persuasiveness of rock and roll in modern society.

GRADE LEVEL: 11-12

PREREQUISITE: Completion of, or concurrent enrollment in, U.S. History is preferred.

## MICHIGAN HISTORY (0.5 Credit)



### DESCRIPTION:

History of Michigan discussing the economic and geographic importance to the formation of our state. This course will talk about the local settlements as well as the settlements of key cities around the state. Analyze the importance of Michigan within U.S. History with concentration on politics and economic influence. This class will tell the story of Michigan's past, open awareness as to local, state and national influence and discuss the current status of our state.

GRADE LEVEL: 10-12

## INTERNATIONAL RELATIONS (0.5 Credit)



**Not offered 2018-2019**

### DESCRIPTION:

This would be a 1 trimester course that would include the study of the nation, state, and international law. Areas included in the study would be Europe, China, The Far East, The Middle East, Africa, Latin America, and the study of the United Nations throughout its history and development, structure and problems. We use Statecraft ([click here](#)), an online International Relations app used for college and upper level International Relations courses.

GRADE LEVEL: 11-12

## SOCIOLOGY I (0.5 Credit)



### DESCRIPTION:

This course will focus on the more theoretical aspects in the field of sociology. Special attention will be given to concepts such as culture, socialization, social structure, social stratification, and other topics which specifically investigate sociology as a social science. Throughout the course, students will view these topics using standard social perspectives. Additionally, a major research project will help students apply objectives learned in class.

GRADE LEVEL: 11-12

## SOCIOLOGY II (0.5 Credit)



**Not offered 2018-2019**

### DESCRIPTION:

Sociology II incorporates more specific social understanding than Sociology I. Insight into social institutions will be the focus of this class. How societies deal with the economy, politics, marriage/family, education, religion, aging and death/dying will be explored. The class finishes with a look into the future by tackling the topic of social change. A major research project will be included in the coursework.

GRADE LEVEL: 11-12

PREREQUISITE: Successful completion of Sociology I

## **PSYCHOLOGY (0.5 Credit)**

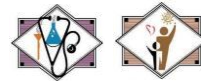


### **DESCRIPTION:**

Psychology is an elective course that strives to give students an introduction to the field of psychology and a better understanding of human behavior. Exploration of the human mind will include studies of the various theories of psychology, the development of personality, the workings of the human brain, the areas of intelligence and memory, and issues of learning and behavior. Students will also explore psychological disorders and the effects of stress on all of us.

GRADE LEVEL: Elective for grades 11-12

## **ADVANCED PLACEMENT PSYCHOLOGY A and B (1.0 Credit)**



### **DESCRIPTION:**

This course is a challenging, elective class aimed at preparing students for the Advanced Placement exam and for college coursework. In this course, students will further their understanding of psychology as the systematic and scientific study of behavior and mental processes. They will examine and analyze the major concerns of psychology, including research methods, biological bases of behavior, sensation, perception, learning, thinking, memory, motivation, emotion, development, and psychological disorders. Ideally, students wishing to take Advanced Placement Psychology should enroll in Psychology first term and AP Psychology for the remaining two terms of the same year.

GRADE LEVEL: 11-12

PREREQUISITES: Successful completion of Psychology (recommended B or better average)

TEXT: Psychology, 8th Edition - Myers

## **ADVANCED PLACEMENT WORLD HISTORY A and B (1.0 Credit)**

### **DESCRIPTION:**

The AP History course is based on a global perspective of the world and human interactions from 8000 BCE to present day, using the five themes outlined in the College Board's AP World History Course Description consistently throughout the course. This is an effort to understand the breadth of human history while also analyzing in depth specific topics. Students will refine their analytical abilities and critical thinking skills in order to understand historical and geographical context, make comparisons across cultures and time, use documents and other primary sources, and recognize and discuss different interpretations and historical frameworks. This class is geared toward students who want to take the Advanced Placement Exam in World History to earn college credit.

GRADE LEVEL: Elective for grades 11-12

PREREQUISITES: Successful completion of World History

TEXT: World Civilizations: The Global Experience

# Special Education Department

The goal of Special Education at Cadillac High School is to provide an educational program that will meet each student's individual needs while leading to graduation with a high school diploma or certificate of completion per the IEP team. We work to improve the students' basic skills and strive to provide appropriate pre-vocational and vocational experiences for our students. We also address issues of transition to employment, independent living, outside agency services and continuing education or training after the completion of high school.

Placement in any special education class is a decision made through the IEPC process based on each student's needs and the goal of providing all instruction in the least restrictive environment. Students enrolled in any special education class must have been found eligible for services by an IEP prior to enrollment.

## **APPLIED ENGLISH 9 A and B (1.0 Credit)**

### **DESCRIPTION:**

This class is designed for Special Education students and parallels English 9 as taught in general education meeting the Michigan Merit Curriculum requirements and students' IEP goals.

PREREQUISITE: IEP Placement

## **APPLIED ENGLISH 10 A and B (1.0 Credit)**

### **DESCRIPTION:**

This class is designed for Special Education students and parallels English 9 as taught in general education meeting the Michigan Merit Curriculum requirements and students' IEP goals.

PREREQUISITE: IEP Placement

## **APPLIED ENGLISH 11 A and B (1.0 Credit)**

### **DESCRIPTION:**

This class is designed for Special Education students and parallels English 9 as taught in general education meeting the Michigan Merit Curriculum requirements and students' IEP goals.

PREREQUISITE: IEP Placement

## **APPLIED ENGLISH 12 A and B (1.0 Credit)**

### **DESCRIPTION:**

This class is designed for Special Education students and parallels English 9 as taught in general education meeting the Michigan Merit Curriculum requirements and students' IEP goals.

PREREQUISITE: IEP Placement

### **APPLIED PRE-ALGEBRA A and B (1.0 Credits)**

#### **DESCRIPTION:**

This class is designed for Special Education students and provides the basic math skills necessary to be successful in Applied Algebra meeting the Michigan Merit Curriculum requirements and students' IEP goals.

PREREQUISITE: IEP Placement

### **APPLIED ALGEBRA I A and B (1.0 Credit)**

#### **DESCRIPTION:**

This class is designed for Special Education students and parallels Algebra I as taught in general education meeting the Michigan Merit Curriculum requirements and students' IEP goals.

PREREQUISITE: IEP Placement

### **APPLIED GEOMETRY A and B (1.0 Credit)**

#### **DESCRIPTION:**

This class is designed for Special Education students and parallels Geometry as taught in general education meeting the Michigan Merit Curriculum requirements and students' IEP goals.

PREREQUISITE: IEP Placement

### **APPLIED ALGEBRA II EXTENDED A and B (1.0 Credit)**

#### **DESCRIPTION:**

This class is designed for Special Education students and parallels Algebra II as taught in general education meeting the Michigan Merit Curriculum requirements and students' IEP goals.

PREREQUISITE: IEP Placement

### **APPLIED INTEGRATED SCIENCE A and B (1 Credit)**

#### **DESCRIPTION:**

This class is designed for Special Education students and parallels the science requirements as taught in general education meeting the Michigan Merit Curriculum requirements and students' IEP goals.

PREREQUISITE: IEP Placement

### **APPLIED BIOLOGY A and B (1.0 Credit)**

#### **DESCRIPTION:**

This class is designed for Special Education students and parallels Biology A and B as taught in general education meeting the Michigan Merit Curriculum requirements and students' IEP goals.

PREREQUISITE: IEP Placement

## **APPLIED CIVICS AND APPLIED ECONOMICS (1.0 Credit)**

### **DESCRIPTION:**

These classes are designed for Special Education students and parallel Civics and Economics as taught in general education meeting the Michigan Merit Curriculum requirements and students' IEP goals.

PREREQUISITE: IEP Placement

## **APPLIED WORLD HISTORY & GEOGRAPHY A and B (1.0 Credit)**

### **DESCRIPTION:**

This class is designed for Special Education students and parallels World History and Geography as taught in general education meeting the Michigan Merit Curriculum requirements and students' IEP goals.

PREREQUISITE: IEP Placement

## **APPLIED US HISTORY AND GEOGRAPHY A and B (1.0 Credit)**

### **DESCRIPTION:**

This class is designed for Special Education students and parallels US History and Geography as taught in general education meeting the Michigan Merit Curriculum requirements and students' IEP goals.

PREREQUISITE: IEP Placement

## **APPLIED CONSUMER EDUCATION (0.5 Credit)**

### **DESCRIPTION:**

This class is designed for Special Education students and focuses on transition skills and preparing students for life after high school.

PREREQUISITE: IEP Placement

## **APPLIED ACADEMIC SUPPORT A, B and C (0.5 Credit)**

### **DESCRIPTION:**

This class is designed for the Special Education student who needs extra time to complete his/her class work for both general and special education classes. Executive functioning, organization and learning strategies are incorporated throughout the course. The student should be self-motivated and willing to work every day.

PREREQUISITE: IEP Placement



## **FUNCTIONAL ACADEMICS/CAREER ACADEMICS A, B and C (0.5 Credit)**

### **DESCRIPTION:**

These classes are designed for Special Education students and focus on basic academic skills including Math, English, Science and Social studies. Unique Learning Systems (ULS) is the curriculum for these classes.

PREREQUISITE: IEP Placement

## **DAILY LIVING SKILLS A,B and C (0.5 Credit)**

### **DESCRIPTION:**

This class is designed for Special Education students. Concepts such as personal hygiene, meal planning, shopping, cooking, money management, leisure skills, and community involvement are taught.

PREREQUISITE: IEP Placement

## **CAREER PRE-VOC A, B and C (0.5 Credit)**

This class is designed for Special Education students and focuses on pre-employment, employment and transition skills.

PREREQUISITE: IEP Placement

## **WORKSITE BASED LEARNING PROGRAM (WBL) A, B and C (1.0 Credit)**

### **DESCRIPTION:**

WBL is a need-based work experience program designed to enhance employability skills of students prior to graduation. The goal of the program is to provide students with real world work experience in a variety of supervised settings. There are three segments of the program: manufacturing, job club, and retail work experience.

PREREQUISITE: IEP Placement with senior priority

## **TRANSITION SKILLS/CAREER TRAINING A, B and C (1 Credit)**

### **DESCRIPTION:**

This class is designed for Special Education students. Students are placed in School or Community Based job sites. Students are involved with job coaches in unpaid positions within our community and school building.

PREREQUISITE: IEP Placement

# World Language Department

To express oneself in another language is a great accomplishment and gives one a great sense of pride. To open a window to another part of the world makes us a more versatile and adaptable individuals. Learning a foreign language opens a door to another culture and lets us see how others live.

## Objectives:

1. To enable students to learn to communicate in another language through the use of traditional instructional methods and TPR (Total Physical Response).
2. To hear and use the language in natural situations in the classroom and elsewhere.
3. To enable the student to master the basic skills in listening, speaking and writing, and to continue building upon these basic skills.
4. To develop an interest in and an understanding of the people, culture, customs, and geography of the target language.
5. To acquire language learning skills that can be used outside of school to improve one's own ability to speak, read and write the language.
6. To facilitate the student in preparation for more advanced study in high school, university or elsewhere.
7. To emphasize the importance and worth of each individual so that he or she may connect to the global community.

## FRENCH 1 A and B (1.0 Credit)



### DESCRIPTION:

French 1 is the beginning level where students learn vocabulary by active listening and acting out common situations. TPRS/TPR-S are strategies used to facilitate active communication. The primary emphasis is to develop a basic understanding of the French language in order to communicate. French culture and the geography of France and Francophone countries will be introduced.

GRADE LEVEL: 9-12

## FRENCH 2 A and B (1.0 Credit)



### DESCRIPTION:

This is a continuation of French 1. Communication in French in the classroom is the goal for the second semester. The primary emphasis is to speak and be able to understand other people speaking French. Conversational skills and grammar will continue to be developed. The culture and traditions of France & Francophone countries will be discussed.

GRADE LEVEL: 10-12

PREREQUISITE: French 1

### **FRENCH 3 A and B (1.0 Credit)**



#### **DESCRIPTION:**

French 3 is a continuation of French 2. A greater emphasis is placed on oral proficiency and fluency in speaking French. A variety of topics related to everyday life will be discussed in order to build a richer vocabulary. Grammar and writing skills will continue to be developed. The culture and history of France and its provinces will be discussed in greater depth.

GRADE LEVEL: Elective for grades 11-12

PREREQUISITE: French 2

### **FRENCH 4 A and B (1.0 Credit)**



#### **DESCRIPTION:**

French 4 is designed for the students' individual needs. The main goal is to build the students' proficiency and fluency so that self-expression in the target language comes with ease and confidence. Contemporary topics and literature will be included for reading, writing, and discussion. Grammar will be continued. Students may be offered the opportunity to teach at elementary schools.

GRADE LEVEL: Elective for grade 12

PREREQUISITE: French 3

### **SPANISH 1 A and B (1.0 Credit)**



#### **DESCRIPTION:**

Spanish 1 is a beginning course in the Spanish language. Emphasis will be placed on listening and responding to the spoken structures through active participation. A variety of techniques will be implemented to increase exposure to vocabulary building and ultimately narration of stories. Capitalizing on the students' creativity, students will be given opportunities to write, illustrate, act out and share original stories in Spanish. Students will also acquire a basic understanding of various Spanish speaking countries, customs and peoples.

GRADE LEVEL: 9-12

### **SPANISH 2 A and B (1.0 Credit)**



#### **DESCRIPTION:**

Spanish 2 is a continuation of Spanish 1. Students will be encouraged to continue to improve their skills in speaking, reading, and writing through the continued use of communicative activities. The study of basic grammatical structures will continue as will the study of the people, cultures, and customs of Spanish speaking countries. Some examples of Hispanic literature will be explored in the course of study.

GRADE LEVEL: 10-12

PREREQUISITE: Spanish 1

### **SPANISH 3 A and B (1.0 Credit)**



#### **DESCRIPTION:**

Spanish 3 is a continuation of Spanish 2. Spanish 3 students are expected to communicate with a higher quality of fluency and oral proficiency. Emphasis is placed on refining grammar, improving pronunciation, building a richer vocabulary, writing creatively, and examining in greater depth the everyday life of Spanish and Spanish-American peoples.

GRADE LEVEL: Elective for grades 11-12

PREREQUISITE: Spanish 2

### **SPANISH 4 A and B (1.0 Credit)**



#### **DESCRIPTION:**

Spanish 4 is designed to further develop reading, writing and oral skills. A variety of contemporary topics based on present day subjects of broad appeal are presented to give the student a better understanding of the multiple aspects of Hispanic culture and civilization. Emphasis is on reviewing grammar, vocabulary building, and greater fluency in speaking Spanish. Students may be given the opportunity to teach Spanish at the elementary schools.

GRADE LEVEL: Elective for grade 12

PREREQUISITE: Spanish 3

# Career Tech Center

The Career Technical Center is available to provide up-to-date vocational training and instruction to high school students during the daytime programming. The primary objectives are to prepare individuals for full time gainful employment upon completion of high school or to prepare students for further vocational technical education.

## **AGRISCIENCE AND NATURAL RESOURCES (3.0 Credits)**

### **DESCRIPTION:**

Included in the instruction of this program will be tree and plant identification, operation of heavy equipment, forest management, aquaculture, floriculture, greenhouse operation, landscape management, and fisheries and wildlife management.

## **APPLIED CONSTRUCTION TECHNOLOGY (3.0 Credits)**

### **DESCRIPTION:**

In the Applied Construction Technology program students will perform most of the processes required to build a home. This will include concrete, building walls, floors and roof systems, shingling, insulating, dry-walling, siding, window and door installation, trim and cabinetry work, and ceramic tile. Students will also be involved in the mechanical systems of the home including plumbing, heating and electrical. Those entering the program will learn areas of construction consistent with the building stage of the on-going project. Students who are in the program for two years will likely have the opportunity to be exposed to all areas of residential construction.

## **AUTOMOTIVE TECHNOLOGY (3.0 Credits)**

### **DESCRIPTION:**

This course will teach shop safety, work habits, and the technical skills necessary to successfully pass some certification areas. There are 8 total areas of certification, and at the CTC students will concentrate in the areas of Brakes & Braking Systems and Front End & Steering Systems. Other areas, such as General Maintenance, Engine Repair and Electrical Systems will receive attention as well.

## **BUSINESS MANAGEMENT ADMINISTRATION (3.0 Credits)**

### **DESCRIPTION:**

Students in the Business Management Administration (BMA) program receive a broad-based overview of many contemporary business practices. Accounting, entrepreneurship, finance, graphic design, human resources, Microsoft Office Specialist (MOS) applications, and different aspects of business office equipment are explored in BMA.

## **CAREER SKILLS (3.0 Credits)**

### **DESCRIPTION:**

The Career Skills program was created to provide students with an opportunity to learn a variety of job skills in a hands-on environment. Students spend approximately seven weeks in seven of our CTC programs. During their time in the programs, students will be exposed to skills which would be beneficial for entry-level positions with many local employers. 10th grade only.

## **COMPUTERS, NETWORKING AND ELECTRONICS TECHNOLOGY (3.0 Credits)**

### **DESCRIPTION:**

Students will have the opportunity to become proficient in computer technician skills and receive A+ Certification training. A+ certification is an internationally recognized validation of the knowledge, as well as the technical and customer satisfaction skills, required of an entry-level computer technician. A+ Certification is the industry-wide standard for measuring benchmark level, vendor-neutral technical skills expected of a technician with six months on-the-job experience. The goal of this two-year course is to provide information technology and electronics engineering students with the basic electronic, hardware, software, and networking skills necessary to be successful in a variety of entry level IT and engineering positions.

## **DIGITAL MEDIA PRODUCTION (3.0 Credits)**

### **DESCRIPTION:**

The Digital Media Production program offers multi-faceted training for students interested in video, television, radio, and sound-related careers. During their two years, students will be exposed to extensive training on high quality cameras, learning the basics of shooting and editing as they create their own video projects. Our in-house radio station, CTC Radio, offers those interested in radio careers a chance to program a radio station, including rotating music and announcements.

## **ENGINEERING TECHNOLOGY (3.0 Credits)**

### **DESCRIPTION:**

Engineering Technology is a unique program that incorporates advanced math, innovative, and critical thinking skills along with hands-on training. Students in the Engineering Technology program learn Computer-Aided Design (CAD) and Computer-Aided Manufacturing (CAM). Additionally, students can shape metals and other materials on machines such as lathes, mills, grinders, drill presses and band saws both manually and, in some cases, through the sophisticated application of computers. Use of precision measuring tools and working within very close tolerances is necessary. Students will also have the opportunity to design 3-dimensional objects on the CAD system that can then be made into prototypes using a 3D printer. The CTC Engineering Technology lab uses state-of-the-art industrial equipment which is similar in all respects to those found in area industry.

## **HEAVY EQUIPMENT MECHANICS (3.0 Credits)**

### **DESCRIPTION:**

This course will teach shop safety, work habits, and the technical skills necessary to successfully pass the Michigan State Mechanics Certification tests in Diesel Engine Repair, Electrical, and Braking Systems. Second year-students can also take the student ASE tests for diesel engine repair, electrical, and brakes. Instruction and training will focus on diesel engine repair, braking systems (air and hydraulic), electrical and electronic systems, and preventive maintenance. Exposure to suspension and steering, drive train, air conditioning and hydraulics will also be included. The Heavy Equipment Mechanics program is certified by the National Automotive Technicians Education Foundation (NATEF). This demands a very exhaustive curriculum in specific areas of certification.

## **HOSPITALITY, RETAILING AND ENTREPRENEURSHIP (3.0 Credits)**

### **DESCRIPTION:**

Friendly, outgoing, creative people find this career field most rewarding. Students in this program will learn aspects of owning and operating their own business such as: Management, Marketing, Customer Service, & Retail as well as aspects of the Hospitality Industry such as: Travel & Tourism and Culinary Arts. Students rotate through the various program components learning about sales, merchandise display, business start-up operation and management, advertising, cash register operation, record-keeping, food preparation, dining room service, banquet service, sanitation, safety, food storage and portion control. Students will actually operate the school store and restaurant facilities.

## **INTRO TO HEALTH CARE/HEALTH SCIENCE CAREERS (3.0 Credits)**

### **DESCRIPTION:**

Healthcare professionals are in great demand as the healthcare field is one of the largest and fastest growing industries. Healthcare providers work in hospitals, offices (human, dental, and veterinary), nursing homes, schools, and rehabilitation centers. Recent changes in technology, the increasing use of sophisticated equipment and the expansion of the field throughout the nation have created a sharp demand for individuals certified in the allied health field. Both programs offer instruction and use of sophisticated medical equipment, community healthcare volunteer opportunities, job seeking skills, and job shadow opportunities, and articulated college credits.

## **METAL FABRICATION & WELDING (3.0 Credits)**

### **DESCRIPTION:**

Students in the Metal Fabrication and Welding program learn various methods of fabricating metal, such as sawing, shearing, bending and rolling. Various welding methods are taught including Oxy-acetylene cutting and welding, Shielded metal arc welding (stick), Gas metal arc welding / Metal inert gas welding (mig), Gas tungsten arc welding (tig), and plasma arc cutting. Students learn to read blueprints, mathematics applied for welders, basic science course work involving metallurgy and gas elements, employability skills, as well as operate computers which are used in the welding field.

## **POWER SPORTS AND EQUIPMENT (3.0 Credits)**

### **DESCRIPTION:**

Students in the Power Sports and Equipment program learn to identify engine and chassis components and use factory repair manuals to diagnose and repair various types of outdoor power equipment. Theory, maintenance and repair of equipment such as inboard/outboard marine engines, snowmobiles, motorcycles, ATV's, UTV's, and lawn and garden equipment are also studied. Students gain practice in precision measuring, diagnosis/problem-solving and failure analysis which, are evaluated by performance testing.

## **PUBLIC SAFETY (3.0 Credits)**

### **DESCRIPTION:**

Students in the Public Safety program will receive a broad-based overview of careers in the public safety field. Students will learn about law enforcement, corrections, emergency dispatch, and the court systems. During this two-year program, students will become certified in CPR and Basic First Aid as well as participate in mock accidents, real-world scenarios, physical fitness activities, and field trips.