

ANCHOR BAY HIGH SCHOOL
2025-2026 COURSE GUIDE
9th - 12th GRADE



6319 County Line Road
Fair Haven, MI 48023

Telephone #: 586-648-2525
Main Office Fax #: 586-716-8306
Counseling Fax #: 586-716-8307

www.anchorbay.misd.net
North Central Association Accreditation

WELCOME TO ANCHOR BAY HIGH SCHOOL

Anchor Bay High School offers a wide selection of courses in academic, career tech, technological and enrichment areas. These courses are designed to meet the outcomes defined by the State of Michigan and requirements of the world of work. Students are encouraged to speak with counselors, parents and teachers about their future course choices.

Selecting classes is a very important process. The courses should meet the graduation requirements as well as prepare for life beyond high school. Parents are encouraged to be an active part of the course selection process with their student. Every attempt will be made to schedule the requested courses. Alternatives will be used if the requested elective classes are not available to complete a student's schedule. Students should choose their alternate classes with discretion as they **MIGHT** become part of their final schedule.

This course guide provides description of classes which may be offered for the school year. **Actual class offerings will depend on total student requests.** Some points to consider are:

AP AND HONORS COURSES ARE FULL YEAR COURSES AND ARE TO BE COMPLETED IF THE STUDENT HAS REQUESTED THE COURSE.

Anchor Bay offers honors and advanced placement classes that may require summer homework. **Students will not be allowed to drop the course for failure to complete summer homework.**

Careful selection of courses is necessary. The building's schedule is built on the students' requests, therefore, schedule changes become difficult. Please do not request changes.

Anchor Bay offers equal access to all programs without regard to race, ethnicity, gender or disability. For information or help to meet special needs, call the office of the Superintendent, 586-725-2861. Anchor Bay provides directory information (Name, address, and grade level) upon request to outside agencies. Parents who wish their student's directory information to be withheld should notify the high school office.

NONDISCRIMINATION STATEMENT - In compliance with Title VI of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972, Section 504 of the Rehabilitation Act of 1973, the Americans with Disability Act of 1990, and the Elliott-Larsen Civil Rights Act of 1977, it is the policy of the Anchor Bay School District that no person shall, on the basis of race, color, religion, national origin or ancestry, sex, disability, height, weight, or marital status be excluded from participation in, be denied the benefits of, or be subjected to, discrimination during any program, activity, service or in employment. For information, contact the Director of Human Resources, 5201 County Line Rd., Suite 100, Casco, MI 48064, (586) 725-2861.

RECOMMENDED COURSES FOR COLLEGE ADMISSION

In order to be adequately prepared for college the following are general recommendations of Michigan's universities/colleges. Check with individual universities/colleges for specific requirements.

English	4 Years
Mathematics	4 Years
Science	3-4 Years
Social Studies	3 Years
World Language	2 Years

ANCHOR BAY HIGH SCHOOL GRADUATION REQUIREMENTS

NEW CREDIT GRADUATION REQUIRMENTS

English	6.0 credits
Math	5.5 credits
Science	4.5 credits
Social Studies	4.0 credits
World Languages	3.0 credits
Health	0.5 credits
Physical Education	0.5 credits
Personal Finance	0.5 credits
CTE sequence	3.0 credits
Visual/Performing/Applied Arts	1.0 credits
Electives	3.5 credits
total (out of 36)	32 credits

Class of 2026		Class of 2027	
Proposed Credit Requirements		Proposed Credit Requirements	
English	4.5	English	5
Math	4	Math	4.5
Science	3	Science	3.5
Social Studies	3	Social Studies	3.5
World Languages	2	World Languages	2.5
Health and Physical Education	1	Health and Physical Education	1
Career Sequence	0	Career Sequence	0
Visual/Performing/Applied Arts	1	Visual/Performing/Applied Arts	1
Electives	6	Electives	6
Total (out of 27)	24.5	Total (out of 30)	27

Class of 2028		Class of 2029	
Proposed Credit Requirements		Proposed Credit Requirements	
English	5.5	English	6
Math	5	Math	5.5
Science	4	Science	4.5
Social Studies	4	Social Studies	4
World Languages	3	World Languages	3
Health and Physical Education	1	Health and Physical Education	1
Personal Finance	0.5	Personal Finance	0.5
Career Sequence	1.5	Career Sequence	3
Visual/Performing/Applied Arts	1	Visual/Performing/Applied Arts	1
Electives	4.5	Electives	3.5
Total (out of 33)	30	Total (out of 36)	32

NCAA ELIGIBILITY CENTER REQUIREMENTS

The NCAA Clearinghouse is an organization which certifies whether prospective student athletes have accomplished basic initial academic eligibility requirements. This information describes how a student becomes eligible to receive an athletic scholarship.

In order for athletes to compete at the collegiate level in either the NCAA or the NAIA, a prospective athlete must be cleared by either association. To be cleared a student must register online at <https://www.eligibilitycenter.com> (NCAA) or <https://www.playnaia.org/> (NAIA). Eligibility requirements can be found at both websites. After the student-athlete has researched the requirements at the respective website, the student-athlete is advised to set-up a meeting with a counselor and high school coach to learn more about the eligibility process and how to apply to the NCAA or NAIA eligibility centers.

All classes do not meet the NCAA standards for core courses. Be sure to check core class requirements on the websites above.

CTE COURSE GUIDE AND INFORMATION

AIR FORCE JUNIOR RESERVE OFFICER TRAINING CORPS -AFJROTC

We are all about developing responsible young adults to be tomorrow's leaders. We encourage every student to step out of their comfort zone and try our course. We provide hundreds of hours of service to our local community. Community service and leadership positions can be applied to resumes, college and scholarship applications! This is where you learn the habits, techniques, and secrets to succeed in and after high school, in college, a trade school or the work force. We challenge you to reach higher and farther towards goals you didn't even think of, let alone realize. Become the person you wish you could be, develop positive character traits. Start a positive work ethic, and learn the skills necessary to live on your own.

Our state-of-the-art curriculum developed by HQ AFJROTC, it rotates every 4 years and is AdvancED accredited. Our courses and extracurricular offerings develop informed citizens with a strong sense of self-reliance and awareness of their civic duties in today's global society. We strengthen character, help you build self-discipline, encourage high school completion and pursuit of higher educational goals, as well as provide unique leadership opportunities. Our program provides tremendous benefits for future employment, higher education, and military service if interested. There are many opportunities for you outside of class if you choose such as drill team (competition marching), marksmanship, RC aircraft & drones as well as model rocketry.

AIR FORCE JROTC I **FULL YEAR – 1.5 CREDIT**

(GRADES 9-12)

DESCRIPTION: Texts: Survival; Leadership Education IV: Principles of Management. Ever wonder what it might take to survive in the wild? At sea? In an airplane in-flight emergency? How would you perform first aid? Stay warm? Hydrate and eat? Find your way to safety, or at least stay alive until help arrives? Our class will address these and many other critical areas of survival--training in the skills, knowledge, and attitudes needed to perform tasks required for survival. This includes lessons from military survival texts; guest speakers on

survival; case studies on actual survival stories; videos on survival techniques and real-life stories; survival strategy games/exercises; and hands-on opportunities. This year also includes lessons on decision-making skills; managing change, stress, and innovation; group behavior; and understanding work teams. These are all important topics to help ensure success after high school. Finally, the class will include teambuilding activities, team sports, strategy games, and fitness. The course uses multimedia, guest speakers, field trips, and orienteering to enhance learning.

SENIOR CADET STAFF LEADERSHIP AND MANAGEMENT COURSE **FIRST, SECOND, OR THIRD TRIMESTER – .5 CREDIT**

(GRADE 12)

Students for this advanced leadership course serve as members of the AFJROTC cadet senior staff together with cadets approved for the standard Air Force Junior ROTC Course. This hands-on experience affords students the opportunity to apply leadership and management lessons from previous AFJROTC courses. Students are expected to maintain a high level of performance in personal fitness, military bearing, and uniform wear. Students are assigned specific functional areas of responsibility and are expected to perform their duties/responsibilities in addition to mentoring and leading other members of the organization. Students who are approved for this course are expected to occasionally be available at times in excess of daily classes (i.e. before/after school meetings, weekend trips/activities, etc.). Students will conduct long and short-range planning, exercise decision-making, coordination, control and execution of cadet organization activities during the school year. Students are expected to apply higher-level leadership, organizational, communication, and personal interaction skills in the performance of their duties.

PREREQUISITE: Current JROTC Senior; On-track to graduate on-time; Exemplary and broad record in all AFJROTC courses taken; Senior Aerospace Science Instructor approval.

AUTOMOTIVE TECHNOLOGY

AUTO 1 – 2 HOUR BLOCK **FULL YEAR – 3 CREDITS**

(GRADES 11-12)

Introduction to Service: Students will be provided a basic understanding of automobile design and the ability to properly and safely perform basic service and repair procedures in the automotive industry. Students will learn to safely operate and utilize all shop equipment, electric and air power equipment. First aid, chemical storage and disposal, hazardous waste, workplace debris handling, ventilation, use of service manuals, flat rate manuals, bulletins, and troubleshooting charts, Internet resources will be introduced. Emphasis will be placed on developing diagnostic skills and interpreting specifications. Minor automotive service and introduction to automotive systems will be covered

Braking Principles: Students will focus on hydraulic Breaking System Operations, Diagnosis, and Service. Repairs include Master Cylinder, Drum, Disc and Anti Lock Brake Systems Removal and Replacement of Brake System parts. Machining of Drums and Rotors, (on and off car) and Brake Fluid principals and fluid service will be included. Emphasis will be placed on Safety, tools and equipment use and proper techniques and diagnostic routines. This course will utilize a 75% hands-on experience for entry-level technician.

Engine Principles: Students will utilize service manuals, technical service bulletins (TSBs) and product information. Inspect engine assembly for fuel, oil, coolant, and other leaks. Check for abnormal engine noises, inspect and replace pans and covers. Students will change engine oil and filter, reset oil life monitoring systems. Inspect and test radiator, heater core, pressure cap, and coolant recovery systems, perform repairs on cooling system pressure and dye tests. Inspect, replace, and adjust belt tensioners and pulleys. Inspect and replace engine cooling systems and heater system's hoses, pipes, and fittings. Remove and replace engine thermostat, inspect and test coolant; drain, flush, and refill cooling system with recommended coolant. This course will utilize an 80% hands-on experience for entry-level technician.

Steering & Suspension: Students will focus on steering and suspension. Students will learn principals of hydraulics operations and preventative maintenance along with repairs. Students will learn steering angles, adjustments and

replacement of wearable components, wheel bearings, pitman arm, drag /center link, tie rods, bushings, ball joints, and struts. The uses of hunter alignment systems will identify alignment-related symptoms such as vehicle wander, drift, pull and perform 4-wheel alignments. Students will inspect tire condition tread depth, size, and application. Mount & Dismount tires balance wheel and tire assemblies. Check and adjust tire air pressure, identify and test tire pressure monitoring systems. This course will utilize a 75% hands-on experience for entry-level technician.

AUTO 2 – 2 HOUR BLOCK
FULL YEAR – 3 CREDITS

(GRADES 11 – 12)

Introduction of Electrical Systems: Students will study electrical and electronic theory. Enrolled students will develop a logic-based approach to diagnosis and repair of common automotive electrical problems. Scan Tools, Digital Volt Ohm Meters, and computer based Diagnostic Software will be used during lab. Students will service inspect or replace battery. Perform slow/fast battery charge in accordance with manufacturer. Perform charging system output test and identify undercharge, no charge, or overcharge condition. Inspect, adjust, and replace generator alternator drive belts, pulleys, and tensioners. Remove, inspect, and replace alternator. Inspect, replace, and aim headlights bulbs and auxiliary lights fog lights/driving lights Completed simple circuits principals. This course will utilize a 70% hands-on experience for entry-level technician.

Automatic & Manual Drive Train Principles: Students will focus on automatic and manual transmissions. Students will identify internal components for operation in both automatic and manual transmissions, entry-level diagnosis for simple faults and preventative maintenance. Students will identify drivetrain placement FWD vs RWD and 4X4. Students will determine transmission fluid type, level, and condition. Students will inspect transmission for leaks replace external seals, axles, drive shafts and powertrain mounts. Students will Inspect and replace drive shaft, half-shaft, and universal joints and Constant Velocity joints. This course will utilize a 65% hands-on experience for entry-level technician.

Engine Performance & Heating Ventilation A/C: Students will learn engine designs/components, engine construction, air, fuel, ignition systems, exhaust, computer and emissions engine diagnostic tools and strategies for basic diagnostics testing. Principals in Chassis, body and engine electrical systems used in today's automobiles. Enrolled students will be introduced to heating, cooling and ventilation. Students will learn to verify HVAC operations, vent temperature, condenser fan, and compressor operation. Visually check A/C components, Inspect A/C condenser for restricted airflow. Inspect and replace cabin air filter. This course will utilize a 75% hands-on experience for entry-level technician

Advanced Engine & Electrical Systems: Students will focus on internal components that complete a naturally aspirated gasoline engine. Students will be issued a complete engine assembly following course overhaul procedures, grouped students will completely disassemble engine to base block, measure all internal components then reassemble all components back to original manufacturing specifications. The use of multiple courses such as introduction to engine principals, electrical and drive-ability will set a foundation for enrolled students to complete this task. This course will utilize a 75% hands-on experience for entry-level technician.

APPLIED HORTICULTURE/LANDSCAPE DESIGN

APPLIED HORTICULTURE/LANDSCAPE DESIGN
FULL YEAR - 2 HOURS / 3 CREDITS

(GRADES 10-12)

The Applied Horticulture course is designed to be an introduction to horticulture and landscaping industries. Students are given the opportunity to develop skills in horticulture and landscaping by learning about plant biology, care, processing, and investigating products used by professionals in the industry. Skills will be developed through practical, hands-on experience, and classroom instruction in Botany Fundamentals, Growing Methods/Crop Production, Soil & Growing Media, Plant Nutrition, Integrated Pest Management, Greenhouse Industry Skills, Career Success, Safety, and Leadership. All students will earn an OSHA-10 certification. Emphasis on hands-on activities include outdoor planting, assisting in maintenance of sports fields, growing vegetables and flowers in the greenhouse, designing landscapes around the school properties, and enhancing landscapes around the school properties. Field trips will allow students to get a first-hand look at the ever-expanding field of horticulture and opportunities for employment. Students have an opportunity to become members of FFA and compete at state level competitions. The course is a two-hour block for one year in length.

This class is taught at Middle School South. Students are not allowed to drive. Students will be transported via Anchor Bay bus.

BROADCASTING

INTRO TO BROADCASTING 1 TRIMESTER - .5 CREDITS

(GRADES 9 – 12)

This is an entry-level course covering basic elements of broadcasting, video production, and digital media. Students will learn about many different skills and trades within this industry and the phases of broadcast. They will be taught the proper handling of equipment and safety issues related to television broadcast. Hands-on learning experience operating a variety of equipment including cameras, audio mixers, video editing software, lighting equipment, live production video switchers, and more. Students will participate in planning and producing a broadcast.

BROADCASTING FULL YEAR – 1.5 CREDITS

(GRADES 9 – 12)

This class will build upon the foundation of skills/knowledge provided in the Intro to Broadcasting course. Students will continue to learn about the broadcasting, video production, and digital media fields. This course will focus on a "hands-on" learning experience, allowing students to further develop a variety of skills relevant to the many trades within the industry. They will plan, produce, and edit broadcasts, commercials, public service announcements, and more.

VIDEO PRODUCTION 1 TRIMESTER - .5 CREDITS

(GRADES 9 – 12)

Take your filmmaking skills to the next level in this advanced Video Production course. Designed for students with a foundation in video production, this class delves deeper into the technical and creative aspects of visual storytelling. Students will explore advanced camera techniques, dynamic lighting setups, multi-camera productions, video editing, and professional sound recording. Creative challenges include producing short films, documentaries, live event recordings, and promotional videos, with emphasis on refining storytelling, pacing, and visual aesthetics. Students will also learn about pitching ideas, securing ideas, securing feedback, and managing production schedules to simulate real-world media environments. Collaboration and leadership skills are emphasized as students take on specialized production roles such as director, cinematographer, sound mixer or editor. By the end of the course, students will have a portfolio of quality videos and a deeper understanding of career pathways in the video production field.

VIDEO EDITING 1 TRIMESTER – .5 CREDITS

(GRADES 9 – 12)

This course introduces students to the fundamental knowledge, techniques, and tools used in video editing. Students will learn how to manipulate and arrange video clips, add transitions, apply special effects, and incorporate audio to create polished, professional-quality videos. Throughout the course, students will gain hands-on experience with industry-standard software, enabling them to develop their technical skills and creative vision. Potential projects include creating short films, public service announcements, music videos, and promotional content for the various events and activities at Anchor Bay. By the end of the course, students will have a solid understanding of the video editing process and be equipped with the skills necessary to pursue further studies or a career in the digital media field.

BUSINESS

BUSINESS COMMUNICATIONS 1 TRIMESTER – .5 CREDIT

(GRADES 9 – 12)

This course is designed as a foundational course, introducing students to technology in the context of business. Students will develop the ability to communicate effectively through email, Microsoft 365 applications, as well as oral and written communication. Additional components of the course include creating a resume and cover letter, as well as develop job interview skills.

MICROSOFT OFFICE - WORD

1 TRIMESTER – .5 CREDIT

(GRADES 9 – 12)

Through step-by-step instructions and clear visual guides, students will learn essential Word skills, from formatting text and setting up document pages to using exciting new features like transition tools, digital ink, and 3D models.

MICROSOFT OFFICE - EXCEL

1 TRIMESTER – .5 CREDIT

(GRADES 9 – 12)

Through step-by-step instructions and clear visual guides, students will reinforce basic to intermediate skills in an important productivity tool that students will utilize in the classroom, the workplace, and beyond. Students will format data, work with numbers and formulas, and create charts and graphs as they acquire the skills needed for school and workplace readiness.

MICROSOFT OFFICE - POWERPOINT

1 TRIMESTER – .5 CREDIT

(GRADES 9 – 12)

Through step-by-step instructions and clear visual guides, students will learn essential PowerPoint skills, from applying transitions and animations to creating dynamic presentations with new features like 3D models, enhanced slide zooms, and more.

E-SPORTS MANAGEMENT I – INTRO TO GAMING AND INDUSTRY AND PERFORMANCE MANAGEMENT

1 TRIMESTER - .5 CREDIT

(GRADES 10 – 12)

Students will be introduced to the gaming industry, which is one of the fastest growing industries. Students will learn the history of gaming as well as open their minds to a vast amount of careers within the industry. Students will gain an understanding of performance and team building skills which focus on a mental and physical wellness. Students will learn team and individual management skills to collaborate and work together to achieve goals.

E-SPORTS MANAGEMENT II – EVENT PLANNING & OPERATIONS MANAGEMENT

1 TRIMESTER - .5 CREDIT

(GRADES 10 – 12)

Students will understand how events, facilities, streams and social media captivate the various Esports audiences. Students will gain knowledge in Esports event operations through collaboration and working together on management projects. Students will research venues as well as get an insight into the various college programs currently operating Esports programs. Students will use role plays to consult, identify technological needs, explore business and legal aspects while continue to acquire knowledge of the industry.

E-SPORTS CAPSTONE

1 TRIMESTER - .5 CREDIT

(GRADES 10 – 12)

Students will use their knowledge to complete instructor approved projects that focus on the Esports industry. Students will display leadership and management skills acquired to enter the industry. Students will research scholarships, professional experiences and opportunities.

BUSINESS LAW

1 TRIMESTER - .5 CREDIT

(GRADES 11 – 12)

Designed for advanced business students, focusing on how law applies in the context of business through comprehensive and concise coverage.

BUSINESS MANAGEMENT
FULL YEAR – 1.5 CREDIT

(GRADES 11-12)

Do you enjoy being a leader, organizing people, planning activities and motivating with success? Do you like to work with numbers or ideas? Do you enjoy carrying through with an idea and seeing the end product? Would you enjoy learning about financial literacy skills, investing, balancing checkbook, stock market as well as being introduced to the skills required in a global economy? This may be the course for you! **This course fulfills the math-related credit.**

Careers in this path are related to the business environment:

Accounting and Finance
Business Law and Ethics
Computer/Information Systems
Economics
Entrepreneurship

Human Resources
International Business
Management and Logistics
Office Administration
Sports and Entertainment Marketing

BUSINESS PROFESSIONALS OF AMERICA CLUB! Join the Business Club.

PREREQUISITE: Introduction to Business Computer Technology, Microsoft Office suggested.

CHILD STUDIES COURSES

INTRO TO CAREERS IN EDUCATION

1 TRIMESTER – .5 CREDIT

(GRADES 9-12)

Students will explore careers and have multiple opportunities to connect their educational decisions to career options. The focus will be to explore the credentials in fields related to education such as the Child Development Associated (CDA), Michigan Youth Development Associated (MiYDA) and Michigan Teacher Certification bands. Students will also look at many careers related to the education field including, but not limited to, preschool, head start, GSRP programs, types of K-12 schools, laws for schooling, and licensed day cares. Career awareness exploration, preparation, and training may include field trips, guest speakers, job shadows, and job placements as part of this course.

CHILD DEVELOPMENT I

1 TRIMESTER – .5 CREDIT

(GRADES 9-12)

In this course students will study factors of Child Development relating to the major areas including; Physical, Intellectual, Emotional, Social, and Moral development, fetal development, conception/pregnancy and infant health and safety. The major assessment of this course is the Real Care Infant Simulator experience, where for one weekend the student will take home a simulation infant and provide around the clock care. Students will also explore careers and have multiple opportunities to connect their educational decisions to career options. Career awareness, exploration, preparation, and training may include field trips, guest speakers, job shadows, and job placements as part of this course. Competencies mastered in this course include Health, Safety, and Wellness and Cultural Competency. ***The course would start the CDA or MiYDA certification process, but is not mandatory to earn these certifications. Student may still enroll in this course to satisfy their 1/2 Credit of Applied Arts.***

CHILD DEVELOPMENT II

1 TRIMESTER – .5 CREDIT

(GRADES 9-12)

This class is a continuation of Child Development I. Students will study the four areas of a child's development from ages one to twelve. Theory, health and safety, positive guidance, special needs of children and careers with children will all be thoroughly addressed. Students will have the opportunity to observe young school aged children, as well as preschool aged children. Students will also explore child safety, babysitting skills, and careers in child development.

Competencies mastered in this course include Physical Growth & Development, Social Emotional Growth & Development, and Cognitive Growth & Development. *The course would continue the CDA or MiYDA certification process, but is not mandatory to earn these certifications. Student may still enroll in this course to satisfy their ½ Credit of Applied Arts.*

PREREQUISITE: Child Development I

CAREERS IN EDUCATION YEAR - 2 HOURS/3 CREDITS

(GRADES 11-12)

The Teacher Cadet class is an innovative, yearlong teacher training course designed for the student who is curious about going into the field of education. This course seeks to provide the student with an insight into many facts of education, including a work-based learning teaching opportunity. The main focus will be teaching, but the course does expand to all aspects of the field of education. Students will do a field work placement in an elementary or middle school classroom in the district. Competencies mastered include ethics & professional growth, instructional strategies, lesson planning, classroom management, assessment, Work Based learning/Clinical Placement, Career Readiness Practice, strategic partnerships, program development, and special populations and diverse learners.

This course is mandatory to complete process for the CDA or MiYDA certifications, however it is not mandatory for a student to complete the certification. Students may still enroll in this course as part of their high school graduation credits, and is part of the CTE world language and applied arts credits if needed.

TEACHER CADET CO-OP 2 HOURS **FULL YEAR – 2 HOURS – 3 CREDITS**

(GRADES 12)

Students that are currently enrolled in teacher cadet, or have completed teacher cadet, can partner in a paid, before school, position at a local elementary school building working in a SACC program. Students will be working 6:30am to 9:30am. This class will be 1st and 2nd hour and you will return to the building for a 3rd hour start. Students will apply their skills they learned in Child Development I & II.

COMPUTER PROGRAMMING

IT FUNDAMENTALS **1 TRIMESTER - .5 CREDIT**

(GRADES 9 – 12)

This course lays a foundation and introduces the basics in the I.T. world. Students will be able to demonstrate how software and applications are made for a system as well as how the hardware of a computer and a network are built. Students will also understand the basics of networks, the internet, and the infrastructure behind them. Along the way, students will examine how programming languages work and how to secure data on all types of hardware and software. This course prepares the students to take the industry recognized CompTIA IT Fundamentals exam.

PROGRAMMING I - COMPUTER SCIENCE ESSENTIALS (5524) **1 TRIMESTER - .5 CREDIT**

(GRADES 9-12)

This semester long course is the first in a series of courses where students gain in-demand knowledge and skills they will use regardless of the career path they choose. With emphasis on project-based learning and collaboration, Programming I students will use visual, block-based programming that will seamlessly transition to text-based programming languages such as Python. Students will learn a diverse set of computational thinking concepts while working together to design and solve real world problems by creating user friendly applications. Students will finish the semester and continue to expand on their knowledge and skills with programming Self Driving Vehicle Robots.

PROGRAMMING II
1 TRIMESTER – .5 CREDIT

(GRADES 9-12)

This course is the second in a series of courses aimed at developing and preparing a student for a career in Computer Programming or Computer Science. Students explore and apply the same essential coding fundamentals introduced Programming 1 to transition into the text-based programming language of Python. Students will apply computational thinking practices to build their vocabulary, and collaborate on projects just as computing professionals do to create products that address topics and problems important to them.

PREREQUISITES: Programming 1

AP COMPUTER SCIENCE A
FULL YEAR – 1.5 CREDIT

(GRADES 10-12)

Throughout the PLTW Computer Science A (CSA) course, you will engage in hands-on activities, projects, and problems that are reflective of real-world challenges. You will gain an understanding of programming through analyzing, writing, and testing code as you explore concepts like modularity, variables, and control structures. Fundamental topics in this course include the design of solutions to problems, the use of data structures to organize large sets of data, the development and implementation of algorithms to process data and discover new information, the analysis of potential solutions, and the ethical and social implications of computing systems. The course emphasizes object-oriented programming and design using the Java programming language. PLTW is recognized by the College Board as an endorsed provider of curriculum and professional development for AP® Computer Science A (AP CSA).

PREREQUISITES: AP Computer Science Principals and approval of teacher

AP COMPUTER SCIENCE PRINCIPLES
FULL YEAR – 1.5 CREDIT

(GRADES 10-12)

Using Python® as a primary tool, students learn the fundamentals of coding, data processing, data security, and task automation, while learning to contribute to an inclusive, safe, and ethical computing culture. The course promotes computational thinking and coding fundamentals and introduces computational tools that foster creativity through hands-on activities, projects, and problems that are reflective of real-world challenges. Projects and problems include app development, visualization of data, cybersecurity, and simulation. PLTW is recognized by the College Board as an endorsed provider of curriculum and professional development for AP® Computer Science Principles (AP CSP). This endorsement affirms that all components of PLTW CSP's offerings are aligned to the AP Curriculum Framework standards and the AP CSP assessment.

PREREQUISITES: Programming 1 and 2 and/or approval of teacher

CONSTRUCTION TRADES

INTO TO CONSTRUCTION TRADES I
1 TRIMESTER - .5 CREDIT

(GRADES 9 – 12)

Designed to be an introduction to the construction industry. Topics covered are Safety, Health, & Environmental, Industry Overview, and Construction Tools & Equipment. Students will participate in our tool safety program which includes hammer, center punch, handsaw, hacksaw, drill, saber saw, jig saw, circular saw, miter saw, table saw, band saw, drill press, panel saw, planer, jointer, and combination sander. Students will be involved in hands-on projects, field trips, and will be introduced to professionals in the industry.

CONSTRUCTION TRADES II

FULL YEAR - 1.5 CREDIT

(GRADES 9 – 12)

Designed to be an introduction to the construction industry. Topics covered are Employability and Technology Skills, Construction Materials, and Building Construction Design. Students will be involved in hands-on projects, field trips, and will be introduced to professionals in the industry.

CONSTRUCTION TRADES III

FULL YEAR - 1.5 CREDIT

(GRADES 9 – 12)

Designed to be an introduction to the construction industry. Topics covered are Common Construction Practices, Residential Construction Techniques, and Construction Business Management. Students will be involved in hands-on projects, field trips, and will be introduced to professionals in the industry. Our program will be partnering with Habitat for Humanity to offer students project-based learning opportunities.

CONSTRUCTION TRADES IV

FULL YEAR – 1.5

(GRADES 10 – 12)

Designed to be an introduction to the construction industry. Topics covered are Site Preparation and Infrastructure, Green Technology Construction Techniques, and Heavy Equipment/Civil Construction Techniques. Students will be involved in hands-on projects, field trips, and will be introduced to professionals in the industry.

CULINARY ARTS

HOSPITALITY CAREER EXPLORATION

1 TRIMESTER - .5 CREDITS

(GRADES 9 – 12)

Students will learn about the different career opportunities in the hospitality industry. They will practice job searching, filling out job applications, creating resumes and cover letters, communication skills, and interview skills.

HOSPITALITY 1 (FOODS)

1 TRIMESTER - .5 CREDITS

(GRADES 9 – 12)

This is a course which explores the art of cooking and its techniques. The class involves a detailed study of foods, food safety and management of time with an emphasis on special cooking techniques. Job opportunities in the food industry will be explored.

HOSPITALITY MANAGEMENT II

1 TRIMESTER - .5 CREDITS

(GRADES 10-12)

This course has a hands-on approach where students will continue acquiring skills ranging from customer service to food production and safety to successful operation of our full-service student-run restaurant. The Shoreliner Restaurant is open to the public for lunch as well as monthly buffets and other special catering events. Academic concentration will emphasize sanitation practices, production of stocks, sauces and soups, workplace communication, management essentials, fruits and vegetables, guest services, potatoes and grains and how to build a successful career in the industry.

HOSPITALITY MANAGEMENT III/IV
1 YEAR – 2 HOUR BLOCK – 3 CREDITS

(GRADES 11 – 12)

Building upon skills and knowledge acquired in Hospitality I & II, students will learn recipe development, menu writing, cost control and staff scheduling. In addition, students are expected to take on leadership roles and serve as managers and Sous Chefs in the student-run restaurant. Academic concentration will emphasize breakfast food and sandwiches, nutrition, cost control, salads and garnishing, and purchasing and inventory.

Students will continue to learn recipe development, menu writing, cost control and staff scheduling. In addition, students are expected to take on leadership roles and serve as managers and Sous Chefs in the student-run restaurant. Academic concentration will emphasize meat, poultry and seafood, restaurant marketing, dessert and baked goods, sustainability in the restaurant and foodservice industry and global cuisine including American, European, Mediterranean, Middle Eastern, and Asian.

SHORELINER EXPRESS
1 YEAR – 2 HOUR BLOCK – 3 CREDITS

(GRADES 11-12)

Student operated food truck where students will operate out district food truck at local destinations (Shoreliner Express). Students will work through the process of developing a business plan based on the district's vision, develop a menu based on the venue, write a marketing plan, and identify the target customers and competitors. Once students have identified those key components to operate a food truck, students will learn other key components such as food cost analysis, ordering procedures, pre-production, production, kitchen flow of food, proper cooking procedures, point of sale and service.

CYBER SECURITY

CYBER SECURITY (5561/2)
FULL YEAR – 1.5 CREDIT

(GRADES 10-12)

PLTW Cybersecurity is a full-year course implemented in 10th grade or above. The design of the course exposes you to the ever-growing and far-reaching field of cybersecurity. Through problem-based learning and team collaboration you will act as cybersecurity experts and work within a virtual lab developing your Cyber Skills. This course raises students' knowledge of and commitment to ethical computing behavior. It also aims to develop students' skills as consumers, friends, citizens, and employees who can effectively contribute to communities with a dependable cyber-infrastructure that moves and processes information safely. You will explore concepts of safety on the internet, information protection, cryptic coding, ethical cyber hacking and career exploration .

ENGINEERING

DISCOVERY OF ENGINEERING

1 TRIMESTER - .5 CREDIT

(GRADES 9 – 12)

Explore the exciting world of engineering in this hands-on, project-based course. Students will discover the design process, develop problem-solving skills, and learn fundamental engineering principles. Through a series of challenges and projects, students will experience various engineering disciplines, including mechanical, electrical, and civil engineering. No prior engineering experience is required. Come ready to innovate, collaborate, and have fun!

ENGINEERING I

FULL YEAR – 1.5 CREDIT

(GRADES 9 – 12)

Are you a student who enjoys creation and innovation? In this class, students will engage in project-based learning to understand the base concepts of engineering! In this course, students will have exposure to robotics, 3D modeling, graphical analysis, 3D printing, building, breaking, and blowing things up! This course is a hands-on course that encourages teamwork, collaboration, and a willingness to create! Students will leave this course with a thorough understanding of engineering design process, basic tools of the trade, terminologies, and an unrelenting desire to continue creating!

ENGINEERING II

FULL YEAR– 1.5 CREDIT

(GRADES 10-12)

Are you looking to take engineering to the next level? Students will continue to expand upon ideas and project-based learning activities presented in Engineering I. In this course, students will dive into the finer details of career exploration and discover the concepts used by today's industries. Students will have exposure to the latest technologies such as 3D printers, drones, and modeling equipment used by current engineers! Students will have vast projects expounding upon their interests and exploring prototyping, modeling, and full product creation utilizing techniques used across various professions of engineering! The class will utilize field trips to enlighten students to the various engineering career fields. Students will have the opportunity to leave class with industry certifications.

ENGINEERING III

FULL YEAR -1 HOUR – 1.5 CREDIT

(GRADES 11-12)

Students will explore project based, and hands on learning to prepare them for real world engineering problems. In this course, applicative learning through in depth, student motivated studies will drive the desire to further pursue engineering. Students will continue building on foundational engineering insights and form an understanding of advanced engineering concepts. Students will gain out of the classroom experience by developing solutions to real world problems, as well as gaining experience through use of field trips to study what goes on day to day in engineering applications. Students will have the opportunity to leave class with industry certifications in multiple CAD programs, drone technologies, and 3D printing software systems. Completion of this course satisfies 1 credit for the Applied Arts requirement and can fulfill fourth year math or third year science related credit.

ENGINEERING IV

(Grades 11-12)

FULL YEAR -1 HOUR – 1.5 CREDIT

Are you ready for a fast paced, work-based engineering class? If so, Engineering IV is the class for you. Building upon all previous Engineering courses, Engineering IV is a capstone course where students will be utilizing CAD software, specialty tool usage, Microsoft Office, 3D printing technologies, and other critical technologies specific to the engineering classroom to assist outside companies and partake in work-based learning.

FINANCE/ACCOUNTING

INTRO TO FINANCIAL ACCOUNTING

1 TRIMESTER - .5 CREDIT

(GRADES 9 – 12)

Students will learn basic concepts that will help them understand financial managers' decision-making processes. Students will use Excel and Accounting software to help learners understand concepts. Student will be introduced to Forensic Accounting, detection and prevention of financial crimes.

COMPUTERIZED ACCOUNTING

FULL YEAR - 1 CREDIT

(GRADES 10-12)

Start Here and Go Places! This is a one-year course which introduces students to the accounting profession from entrepreneurship to corporate accounting. Students will work through the entire accounting cycle beginning from the opening entry to analyzing and preparing the financial statements of a business. Students will be using a computerized accounting system that applied all concepts and skills learned. The course is a great career building opportunity for students interested in the path to becoming a CPA. College Credit can be earned through articulation agreement. **Fulfills fourth year math-related credit.**

FINANCIAL PLAN & WEALTH MANAGEMENT

1 TRIMESTER - .5 CREDIT

(GRADES 10 – 12)

Students will be introduced to financial management strategies needed to best serve the diverse needs found in our communities through individual and family financial planning. Students will have the knowledge to set financial goals in the following areas: financial planning, investment management, income tax planning, insurance and asset protection, and real estate.

GRAPHIC ARTS

The term graphics relates to visual, and the term communication refers to the exchange of information in any form. This class is designed for ALL students who are interested in learning how to design and then create. Students will use words, pictures, photographs and a combination of these items to design and produce various projects. Some examples of these objects include, magazine and newspaper advertisements, posters, CD covers, flyers, and business forms. Although computers will be used for a majority of these projects, previous computer experience and artistic ability is not a must. Student will learn by doing. Projects are designed to build hands on skills. Students will also study the steps to print and media production, giving them an industry overview.

INTRODUCTION TO GRAPHIC ARTS

1 TRIMESTER– .5 CREDIT

(GRADES 9-12)

Students will learn by doing hands on projects in this class. The students will learn about graphics, printing, and the steps it takes to produce a job. They gain computer knowledge and advertising techniques designing and creating projects. They'll use InDesign and be introduced to Photoshop. They produce a set of memo pads and business cards to keep as well

as a couple other computer projects. The students will have access to the entire graphic class and the equipment to complete these assignments. Safety and quality will be constantly stressed.

GRAPHIC ARTS I
FULL YEAR – 1.5
CREDIT

(GRADES 9-12)

This course is designed to use the student's creativity and increase skill levels through different projects and apply it to real life scenarios. They will continue working in InDesign and Photoshop. They will also be introduced to Illustrator. Students will design and produce ads, posters, CD covers and many other projects. The students will also be introduced to full color printing. Quality and safety are stressed. Students will also be starting to create a portfolio of their work and be entering local craftsmanship contests.

ADVANCED GRAPHIC ARTS
(6185/6) - FULL YEAR – 2 HOURS/ 3 CREDITS OR - FULL YEAR – 1 HOUR/1.5 CREDIT

(GRADES 10-12)

This course is designed to prepare students for careers in the rapidly growing graphics arts/visual arts field. They will continue working in InDesign, Photoshop, and Illustrator. They will be introduced to animation in Photoshop. Students will be working on projects in electronic publishing including posters, logo design, product and packaging, advertising campaigns, one color printing, flat color printing and production printing. They will continue to build on skills for applying their work in real life scenarios. Students will be adding to their portfolio. Quality and safety are stressed. Students will be entering local craftsmanship contests.

ADVANCED GRAPHICS & PRODUCTION
1 TRIMESTER - .5 CREDITS (CAN TAKE ALL YEAR)

(GRADES 11 -12)

This advanced-level course builds on the skills developed in previous graphic classes, offering hands-on experience in design and production for real-world applications. Students will engage in all aspects of the production process, including estimating, job planning, and creating professional-quality printed and designed items.

Projects may include producing vinyl decals, memo pads, t-shirts, sweatshirts, drawstring backpacks, stickers, labels, posters, flyers, and more. Additionally, students will refine their design skills through projects such as logo creation, flyer and poster design, and large -scale wall signage. Students will also have the opportunity to earn industry-recognized credentials in the Adobe Create Suite, including certifications in Photoshop, Illustrator, and InDesign, further preparing them for careers in graphic design and production.

INTERNSHIP PROGRAM OPPORTUNITIES

CTE INTERNSHIP PROGRAM 6th Hour
FULL YEAR – 1.5 CREDIT

(GRADE 12)

The student receives 1.5 credit for work experience. This student will work a minimum of 10 hours a week. Either the coordinator or the student will determine this job. Both the coordinator and employer will complete evaluations. The student must be enrolled in a related class. All students **MUST** fill out an application for entry into this experience.

MARKETING

ENTREPRENEURSHIP

1 TRIMESTER – .5 CREDIT

(GRADES 9-12)

Entrepreneurial thinking is a critical skill for the careers of today and the future. This course is a practical program that includes innovative thinking, creativity, problem solving, and other entrepreneurial and business traits. Students will complete hands-on marketing and business activities to bring life to a business concept. Content includes the functions and foundations of marketing, economics, entrepreneurship, risk management and operations. Students are encouraged to join a marketing club {DECA, BPA} to promote leadership development, community services, team collaboration and business fun. This course continues in the marketing pathway

MARKETING

FULL YEAR – 1.5 CREDIT

(GRADES 10-12)

Students learn basic marketing concepts through direct instruction and real-world hands-on activities related to marketing, selling, promotion, pricing, financial analysis, channel management, market information management, strategic market planning, product service planning, human resources, management and career exploration. Students will understand and implement the functions of marketing and how effective marketing is important and profitable - not only in the business world but also their daily lives. Students are encouraged to join a marketing club {DECA, BPA} to promote leadership development, community services, team collaboration and business fun. This course completes the marketing pathway. Also, marketing students have the opportunity to be selected for school store management and/or internship programs.

STORE MANAGER

FULL YEAR – 1.5 CREDIT

(GRADES 11-12)

The students will act as store managers of the School Store. Their duties will be to keep the store running smoothly, keep records of the store's operations, train students on cash registers, price marker and supervision of the store. Students are encouraged to join DECA (Business and Marketing Club).

SPORTS & ENTERTAINMENT MARKETING

1 TRIMESTER – .5 CREDIT

(GRADES 11 -12)

This course is designed for students who have completed marketing. Throughout the course, students will explore the dynamic world of marketing within the sports and entertainment industries. They will learn key concepts such as branding, sponsorship, event promotion, and consumer behavior. Students will engage in hands-on projects, case studies, and collaborative activities that will help them understand how marketing strategies are developed and implemented. By the end of the course, students will have a comprehensive understanding of how marketing influences the success of sport teams, entertainment events, and overall fan engagement. This course aims to equip students with the skills and knowledge necessary for future pursuits in marketing and related fields.

MEDICAL EDUCATION

INTRO TO MEDICAL CAREERS

1 TRIMESTER – .5 CREDITS

(GRADES 9 – 12)

This course introduces students to the medical field and explore the various medical careers that are available in the healthcare industry.

MEDICAL EDUCATION I

FULL YEAR – 1.5 CREDITS

(GRADES 9-12)

This course is designed to give students an opportunity to explore many different healthcare careers through class work and work-based learning opportunities. They will learn and demonstrate skills that are required for health care professionals within various healthcare settings. Students will gain the understanding of Healthcare systems, Communication, Basic Anatomy, Medical Terminology, Legal and Ethical issues in Healthcare, Health Maintenance practices, Infection Control and workplace safety. Students are given the opportunity to learn about & earn AHA CPR/AED/First Aid certification. Clinical skills will be taught with CDC precautions taken. Articulation agreements with post-secondary are Macomb Community College and Ferris State University.

MEDICAL EDUCATION II

FULL YEAR – 2 HOURS – 3 CREDITS

(GRADES 10-12)

Students will continue to research and study different health occupations during this two-hour block class. Students will continue their learning of medical terminology, anatomy and physiology. Students will learn technical skills such as moving a patient, bathing/caring for a patient, feeding a patient, taking vital signs, obtaining height/weight of a patient, etc. Students are taught CPR and will receive certification in Basic Life Support (BLS). Please be aware that the Covid-19 and the Influenza vaccine may be required for work-based learning activities. **This course can count as a FOURTH YEAR MATH CREDIT.**

PREREQUISITE: Receiving a B or better in Medical Education I.

MEDICAL EDUCATION III

FULL YEAR – 2 HOURS – 3 CREDITS

(GRADE 12)

The focus of this course is to build on the past competencies of Medical Education 1 and Medical Education 2. Upon successful completion of this course, students will be eligible to take the Patient Care Technician Certification (CPCT/A) Exam. The CPCT/A credential covers the following content: patient care; compliance, safety and professional responsibility, infection control; phlebotomy; and EKG. Successful completion of a medical assistant training program is required to be qualified to take the CPCT/A exam. Students must be no more than 12 months from completing their high school graduation to be qualified to earn the credential, which is awarded on a provisional basis until a diploma is issued and verified. The credential is valid for two years; renewal requires 10 continuing education credits and payment of a renewal fee. Students are taught CPR and will receive certification in Basic Life Support (BLS). Please be aware that the Covid-19 and the Influenza vaccine may be required for work-based learning activities. **This course can count as a FOURTH YEAR MATH CREDIT.**

PREREQUISITE: Receiving a B or better in Medical Education II.

MEDICAL EDUCATION PCT (PATIENT CARE TECHNICIAN)
FULL YEAR – 2 HOURS – 3 CREDITS

(GRADE 12)

The focus of this course is to build on the past competencies of Medical Education 1, 2, and 3. Upon successful completion of this course, students will be eligible to take the Patient Care Technician Certification (CPCT/A) Exam. The CPCT/A credential covers the following content: patient care; compliance, safety and professional responsibility, infection control; phlebotomy; and EKG. Successful completion of a medical assistant training program is required to be qualified to take the CPCT/A exam. Students must be no more than 12 months from completing their high school graduation to be qualified to earn the credential, which is awarded on a provisional basis until a diploma is issued and verified. The credential is valid for two years; renewal requires 10 continuing education credits and payment of a renewal fee. Students are taught CPR and will receive certification in Basic Life Support (BLS). Please be aware that the Covid-19 and the Influenza vaccine may be required for work-based learning activities.

Credential Available: Patient Care Technician Certification

PREREQUISITE: Receiving a B or better in Medical Education II/III.
This course can count as a FOURTH YEAR MATH.

WEB DESIGN

WEBSITE DESIGN I **1 TRIMESTER - .5 CREDIT**

(GRADES 9-12)

This course familiarizes students with the creation and management of webpages and websites. We will focus on scripting and web page creation, including discussion on HTML5, CSS, graphic editing, multimedia embedding, and more. Students will develop clean coding practices while building websites using current software. Students will strive to view the web in terms of its creative possibilities and cultural significance as well as its commercial and educational uses.

WEBSITE DESIGN II **1 TRIMESTER - .5 CREDIT**

(GRADES 9-12)

Business Website Design II further explores the ideas developed in Web Design I course. Continued emphasis is on students experimenting with the web environment and developing their own artistic visions. It provides detailed explorations of the technical and aesthetic challenges of the user interactivity. Furthermore, students investigate dynamic site design, building, and management.

WEBSITE DESIGN III **1 TRIMESTER - .5 CREDIT**

(GRADES 10-12)

Business Website Design III builds upon Web Design I & II courses. It allows the students to examine advanced concepts in web design, and to develop a critical approach to the web media. Students will enhance their existing website design skills through direct hands on and simulation projects, assisting the teacher and other students in assignments. In hands-on simulations, students become a lead Web designer working with clients to build a website for their respective businesses. Students work with each client in all phases of the process, from planning and layout, to website creation. This allows students to develop their overall personal qualities and employability skills. Effective professionals know the academic subject matter, including positive work practices and interpersonal skills, as needed in their role.

WELDING

INTRO TO WELDING
1 TRIMESTER - .5 CREDITS

(GRADES 9 – 12)

Students will be introduced to welding, safety, hands-on opportunities and career exploration. Students will learn the basic welding techniques.

WELDING I
FULL YEAR – 3 CREDITS – 2 HOUR BLOCK

(GRADES 10 – 12)

Students will learn the basic welding joints in MIG, TIG, Stick, and Oxy fuel welding while in the flat and horizontal positions.

BLUEPRINT & FABRICATON
FULL YEAR – 1.5 CREDITS

(GRADES 10 – 12)

Students will learn how to properly draw basic welding blueprints and how to construct and draw their own welding blueprint.

ENGLISH REQUIRED COURSES - SEQUENCE CHART

ENGLISH – 6.0 Credits

9 th GRADE	10 TH GRADE	11 TH GRADE	12 TH GRADE
English 9	English 10	English 11	Novels – Writing English 12
Honors English 9	Honors English 10	AP Language & Composition	AP English Literature & Composition – Full Year

ENGLISH 9
FULL YEAR – 1.5 CREDIT

(GRADE 9 - REQUIRED)

The major focus is the use of oral and written communication. The written communication section of the class will focus on process writing skills to communicate effectively with a variety of audiences. The study of literature will focus on short stories, poetry, fiction, non-fiction, informational reading, and novels. The study of grammar will focus on grammar, usage, and mechanics.

HONORS ENGLISH 9
FULL YEAR – 1.5 CREDIT

(GRADE 9)

This course will progress at an **accelerated rate** and require the student to think critically by analyzing and synthesizing information from language and literature. Students will demonstrate knowledge and application of writing skills. Standard usage, functional grammar, correct spelling and punctuation are emphasized in writing assignments. Oral communication skills will focus on intelligent and thoughtful responses to literature presented. Students will also explore the various forms

of literature including in-depth study of 3-4 additional novels. The study of grammar will focus on grammar, usage and mechanics. **A summer reading novel with a coordinating assignment will be required. A test on the summer reading novel will also be given.**

ENGLISH 10

FULL YEAR – 1.5 CREDIT

(GRADE 10 -REQUIRED)

This course continues the development of oral and written communication. The written communication section of the class will focus on process writing skills to communicate effectively with a variety of audiences. As part of the writing process students will use the library and other resources to develop a knowledge base for a research paper. Students will be taught how to use online databases. Standard usage, functional grammar, and correct spelling are emphasized. The study of literature will include fiction and informational reading. Process writing will continue in the literature portion of the course via literary analyses papers.

HONORS ENGLISH 10

FULL YEAR – 1.5 CREDIT

(GRADE 10)

This course will progress at an **accelerated rate** and require the student to think critically by analyzing and synthesizing information from language and literature. Students will demonstrate knowledge and application of writing skills in several expository and creative writing assignments. Construction and completion of a formal MLA style research paper is required. Online databases of editorially controlled sites will be taught and applied in preparation of the research paper. Standard usage, functional grammar, correct spelling and punctuation are emphasized in all writing assignments. Oral communication skills will focus on intelligent, thoughtful responses to literature presented. In this course, students will explore genres of World literature as well as informational texts. A summer reading novel(s) and assignment will be required.

ENGLISH 11

FULL YEAR – 1.5 CREDIT

(GRADE 11 – REQUIRED)

This course focuses on the continued development of oral and written communication. Written communication section of the class will emphasize process writing to communicate effectively with a variety of audiences. Students will prepare for the State’s standardized testing through various practices. Standard usage, functional grammar, and correct spelling are emphasized. Oral communication skills will focus on responses and presentations. The study of literature will include novels, short stories, poetry and drama as well as informational reading.

ADVANCED PLACEMENT LANGUAGE AND COMPOSITION

FULL YEAR – 1.5 CREDIT

(GRADE 11)

This course is intended to prepare students to take the Advanced Placement Test for English Language and composition. All of the course objectives defined by the Educational Testing Service for Advanced Placement will be fulfilled. Many universities accept Advanced Placement test results in lieu of course work. Grades in this course are only weighted for students’ grand-point averages. **For further information, visit: [HTTP://APCentral.CollegeBoard.com](http://APCentral.CollegeBoard.com).**

ENGLISH ELECTIVES

(Does not meet the English graduation requirements)

YEARBOOK

FULL YEAR – 1.5 CREDIT

(GRADES 11- 12)

The production of the yearbook is a multi-disciplinary subject. Students will have the opportunity to take and select

photographs for printing, to design and enhance lay outs, to write and edit copy, to create headlines and cut lines, to learn the basics of graphic design and expository writing, and to work cooperatively toward producing an award-winning yearbook. As part of the class, students will be required to meet all deadlines, market and sell the yearbook, and conduct interviews. Computer skills are mandatory and knowledge of Photoshop is preferred.

PREREQUISITE: Instructor's approval.

MYSTERY IN LITERATURE & MEDIA

1 TRIMESTER - .5 CREDIT

(GRADES 11- 12)

This course provides students with a comprehensive exploration of popular and classic mystery fiction of the late 19th century until now. Students will delve into various sub-genres, including detective, noir, suspense, and the supernatural, to analyze and appreciate the literary devices employed by authors. Students will evaluate themes of ideology, gender, the unconscious, and the law. Through the examination of short stories, radio broadcasts, podcasts, television shows, and films, students will gain a deeper understanding of how authors effectively engage readers, listeners, and viewers and create captivating narratives. Course content options may include, but not limited to works from Christie, Poe, Conan Doyle, Hammet, King, Dagnet, and Koenig.

ENGLISH 12 CHOICES

NOVELS/WRITING

FULL YEAR – 1.5 CREDIT

(GRADE 12)

Students will read a variety of classical and contemporary novels. Students' responses to the literature will include not only theme analysis but also literary and character analysis plus other novel-related activities.

Using the writing process, students will develop a variety of written works. Instructor will select from the following: description, speeches, persuasion, impromptu, creative writing (poetry, short stories and drama), argumentation, literary analysis, comparison, and informational and technical writing. Standard usage, functional grammar and correct spelling are emphasized along with detail, imagery, figurative language, syntax, and tone. Students will study writing models as well as use the library as a resource.

ENGLISH 12

FULL YEAR – 1.5 CREDIT

(GRADE 12)

This is a semester class that focuses on British Literature, the development of the English language and British culture. The course highlights literary pieces such as Beowulf and Shakespeare's Macbeth. Students will be engaged in all factions of the language: reading, listening, writing, and presenting. The writing will be based on the organization and development of ideas that occur in the literature we are reading. Standard usage, functional grammar and punctuation will be emphasized in the writing assignments.

ADVANCED PLACEMENT ENGLISH LITERATURE AND COMPOSITION

FULL YEAR – 1.5 CREDIT

This course is intended to prepare students to take the Advanced Placement Test for English Literature and Composition. All of the course objectives defined by the Educational Testing Service for Advanced Placement course work will be fulfilled. Many universities accept Advanced Placement test results in lieu of course work. Grades in this course are only weighted for students' grade-point averages. **For further information, visit [HTTP://APCentral.CollegeBoard.com](http://APCentral.CollegeBoard.com).**

FINE ARTS

ART

INTRODUCTION TO ART

1 TRIMESTER – .5 CREDIT

(GRADES 9-12)

This course is a foundation class exploring a wide variety of media including drawing, painting, printmaking, and various other 2D and 3D experiences. Students will develop their ability to use the elements and principles of art to create expressive qualities in their art work. Students will practice self-evaluation and critical thinking to assess outcomes by presenting a portfolio. This is a general art class designed for all students.

ADVANCED ART

1 TRIMESTER – .5 CREDIT

(GRADES 9-12)

This course is for all students who want a more in-depth experience in art. Students will use their prior art experience to develop a theme or concentration in their artwork. Emphasis will be placed on developing subject matter as well as improving techniques. Students will be shown how to organize a portfolio of their work. Students will practice self-evaluation and critical thinking to assess outcomes by presenting a portfolio. This class may be taken more than once for additional credit.

INTERMEDIATE ART

1 TRIMESTER – .5 CREDIT

(GRADES 9 – 12)

This course will build upon the practical drawing skills learned in Introduction to Art, with an emphasis on color theory, design concepts, and painting. Students will learn about perspective, proportion, composition, contrast, fine detail, as well as explore a variety of painting techniques using tempera and watercolors. Students will also be introduced to artists, art time periods, and works that mirror the skills introduced. Opportunities for creative and self-expression and art analysis will be encouraged, along with discussions on possible career directions in the field of art beyond high school.

SCULPTURE

1 TRIMESTER – .5 CREDIT

(GRADES 9 – 12)

This course is an introduction to creating sculptural/3-dimensional projects using a variety of media including but not limited to paper, cardboard, plaster, and clay, using traditional hand building techniques. While this course will focus on 3D art, drawing and design skills will be used to enhance their works. Students will: study form, volume, composition, and space relationships through decorative, utilitarian, and conceptual approaches to sculpture; learn about artists who focused on 3D art, and sculptures from different times periods; learn about the elements of art and principles of design to construct sculptures that are successful, original, and crafted with talent and skill; explore different materials, constructive techniques, and processes for surface enrichment.

DRAMA

DRAMA I

1 TRIMESTER – .5 CREDIT

(GRADES 9-12)

This course is designed to introduce students to basic performance and technical theatre elements. The first semester is spent helping students to achieve comfort in front of an audience, perform multiple pantomime scenes/exercises, convey distinct characterizations, and respond effectively to performance. Activities include pantomimes, improvisations, and memorized scripts.

ADVANCED DRAMA

FULL YEAR – 1.5 CREDIT

(GRADES 10-12)

As the advanced course, this class focuses on the preparation and presentation of public performances. Students in the class will engage in individualized or group projects through which students will expand their knowledge and hone their skills. The class experience incorporates student-driven assignments and fosters independent, cooperative, creative efforts. Students learn how to effectively set individual goals related to specific areas of theatrical production which may include: script writing/selection, design and execution in technical theatre areas, and/or presentation. The concepts and skills introduced and practiced in Drama I and/or after-school drama all served as a basis for the class activities and projects.

FORENSICS

FULL YEAR – 1.5 CREDIT

(GRADES 9- 12)

This course is designed to introduce and/or further student competency in oral communication. The forensics student will work to prepare either literature, a speech, or information for presentation at competitive tournaments. The speaking done in class will be both interpretive and public address. Students will then be able to select from among twelve different events in which to compete at actual tournaments. For presentations, students will engage in:

1. Literature/topic evaluation/selection
2. Literary/topic analysis; research
3. Cutting/Drafting/Gathering the materials(s) to be presented
4. Regular rehearsing, coaching, and speaking/performing
5. Refining the interpretation/manner of presenting/organization
6. Traveling and school-based showcases
7. Competing at and attending at a pre-determined number of tournaments

INSTRUMENTAL MUSIC

CADET BAND

FULL YEAR – 1.5 CREDIT

(GRADES 9-12)

The Cadet Band is a full year course designed for developing woodwind players to help develop overall technique and musicianship. The cadet band will periodically rehearse and perform with the Concert Band. A wide variety of music and styles will be addressed. Participation in the Cadet Band will result in mandatory performances and rehearsals, including Winter and Spring concerts, pre-festival concerts, and participation at the District 16 MSBOA Band Festival.

PREREQUISITE: Middle School band experience.

9th GRADE SYMPHONIC BAND

FULL YEAR – 1.5 CREDIT

(GRADE 9)

The 9th Grade Symphonic Band is a full year course designed for the advanced 9th Grade instrumentalist. Comprised of woodwinds, brass, and percussion, the members of the 9th Grade Symphonic Band will be selected through an audition process or teacher recommendation. This band rehearses and performs a wide variety of music and styles. Obligations to this class include after-school performances and rehearsals. This includes Winter and Spring concerts, pre-festival concerts, Graduation, and participation at the District 16 MSBOA Band Festival.

PREREQUISITE: Middle School band experience with a successful audition or recommendation.

CONCERT BAND
FULL YEAR – 1.5 CREDIT

(GRADES 9-12)

The Concert Band is a full year course designed for developing brass and percussion players to help develop overall technique and musicianship. The Concert Band will periodically rehearse and perform with the Cadet Band. A wide variety of music styles will be addressed. Participation in the Concert Band will result in mandatory performances and rehearsals, including Winter and Spring concerts, pre-festival concerts, and participation at the District 16 MSBOA Band Festival.

PREREQUISITE: Middle School or High School band experience.

SYMPHONIC BAND
FULL YEAR – 1.5 CREDIT

(GRADES 10-12)

The Symphonic Band is an intermediate ensemble, and a full year course. Comprised of woodwinds, brass and percussion, members of the Symphonic Band will be selected through an audition process or teacher recommendation. This band may be scheduled into separate hours, yet will combine in performance. This class performs a wide variety of music and styles. Obligations to this class include after-school performances and rehearsals. This includes combination rehearsals, Winter and Spring concerts, pre-festival concerts, Graduation, and participation at the District 16 MSBOA Band Festival.

PREREQUISITE: Middle School or High School band experience with a successful audition or recommendation.

WIND ENSEMBLE
FULL YEAR – 1.5 CREDIT

(GRADES 10-12)

The Wind Ensemble is an advanced ensemble, and a full year course. Comprised of woodwinds, brass, and percussion, members of the Wind Ensemble are selected through a successful audition. This band rehearses and performs various styles of music such as classical, pop, marches, jazz, contemporary, etc. The music that is rehearsed and performed is at a greater difficulty level, and thus, requires that its members be more dedicated while displaying a higher level of technical ability. Obligations to this class include after-school performances and rehearsals. This includes Winter and Spring concerts, pre-festival concerts, Graduation, and participation at the District 16 MSBOA Band Festival.

PREREQUISITE: High School band experience with a successful audition.

JAZZ ENSEMBLE
FULL YEAR – 1.5 CREDIT

(GRADES 10-12)

The Jazz Ensemble is an advanced ensemble that selects its members through an audition process, and meets for the entire year. This ensemble is made up of trumpets, trombones, saxophones, and a rhythm section (guitar, piano, bass, and drum-set). The band focuses on rehearsing and performing the various styles of jazz, R & B, swing, rock, fusion, etc. Time is also spent in the development and implementation of improvisation skills, along with the basic knowledge of music theory. During the musical, it will be required of some members to help to form the pit orchestra. The Jazz Ensemble performs in the community as well as at the CMU Jazz Weekend, at MSBOA Jazz Festival, and at Winter and Spring concerts. Obligations to this class include after school performances and rehearsals. Students interested in taking Jazz Ensemble must plan their schedule accordingly to create room for an extra elective outside of the Michigan Merit Curriculum. One option to free-up schedule space is by taking required courses at community college or night school. This is not necessary, but will provide students in two band classes with more course choices during their high school career.

PREREQUISITE: A successful audition including the ability to read standard notation.

MARCHING BAND
ONE TRIMESTER - .5 CREDIT

(GRADES 10-12)

The Marching Band is a musical marching unit that meets during the first trimester. The ensemble consists of woodwinds, brass, percussion, and a color guard. Membership requires total dedication and maximum effort in all aspects of marching, playing, rehearsal, and performance. Failure to meet these requirements can result in a dismissal from the ensemble. The Marching Band provides entertainment at home football games, local parades and events, and performs at the District 16 MSBOA Marching Band Festival held in October. The ensemble rehearses mid-August evenings and school days September thru mid-October, Monday thru Thursday, from 2:35 p.m. to 4:05 p.m. The color guard and percussion sections may be required to hold additional rehearsals outside of the regular practices after school. Obligations to this class include some performances and rehearsals in the evenings and weekends. This includes local parades, home football games, Pre-Festival Invitationals, and participation at District 16 MSBOA Band Festival. Students are also obligated to attend summer marching camp. A calendar with all obligations is provided in the preceding spring. Students can waive their Physical Education requirement by participating for three years in the Marching Band.

VOCAL MUSIC

CONCERT CHOIR

FULL YEAR – 1.5 CREDIT

(GRADES 9-12)

Concert Choir is an INTERMEDIATE LEVEL choir – SA, SSA, SAB or SATB depending on enrollment. This course is designed to provide students with the experience of singing in a large group – in HARMONY. Concert Choir continues to build upon the student’s previous singing experiences using proper VOCAL TECHNIQUE. A wide variety of music will be performed. Festival participation and 4 performances a year will be required to pass this class.

CHORALE

FULL YEAR – 1.5 CREDIT

(GRADES 10-12)

Vocal Arts Chorale is an ADVANCED SATB mixed choir for only the TRULY DEDICATED vocalist. Admission into this course is by successful AUDITION ONLY. A high degree of proficiency in sight-reading, vocal technique, and blending ensemble singing ability will be developed throughout this year. A large number of acapella pieces, madrigals, and challenging choral music in a wide variety of languages (from ALL STYLES and historical periods) will be studied and performed. Students will participate in workshops and a variety of performing experiences. Four concerts, Senior Awards Night, Graduation, District Solo and Ensemble, District and State Choral Festival as well as other community outreach experiences are mandatory and will be graded.

WOMEN’S CHOIR

FULL YEAR – 1.5 CREDIT

(GRADES 10-12)

Anchor Bay’s Women’s Choir is an advanced treble-only ensemble. Admission into this choir is permitted by either a successful audition, or a teacher recommendation. Throughout the year, students will advance in their abilities in sight-reading, vocal technique and blended ensemble singing. Students will also perform and study a large number of acapella pieces, madrigals, and challenging choral music that is also displayed in a variety of different languages. Members of the Women’s Choir will additionally be expected to perform in District Solo and Ensemble, District and State Choral Festival and two in-school concerts. Overall, the Anchor Bay’s Women’s Choir provides an empowering experience and an opportunity for like-minded women to build connections with each other, and work together to advance in their musical and technical studies.

HEALTH/PHYSICAL EDUCATION

HEALTH

1 TRIMESTER – .5 CREDIT

(GRADES 9-12)

Health is a required class for graduation. It is designed to provide a basic understanding of nutrition, body systems (including reproduction), mental health, personality, substance abuse, communicable disease prevention, sexually transmitted diseases and HIV/AIDS.

PHYSICAL EDUCATION (8564)

1 TRIMESTER – .5 CREDIT

(GRADE 9)

This class is designed to give the student a well-rounded program through many activities. Activities such as pass ball, indoor and outdoor soccer, softball, tennis, floor hockey, team hand ball, whiffle ball, volleyball, basketball, table tennis, badminton and floor tennis will be studied. They will learn to understand the need of the contribution of these activities to their health and wellbeing. Other activities, such as dance (for rhythmical and social purposes); running, jump ropes, footwork drills, aerobics (for cardiovascular training), and stretching and strengthening exercises (for flexibility and strength) will be done. Rules, strategies, teamwork and sportsmanship within each activity will be discussed and studied. Students will learn to appreciate physical activity and how it relates to good health habits. All students will be subjected to standardized physical fitness testing each quarter and also during the final exam period.

INTRO TO WEIGHT TRAINING

1 TRIMESTER – .5 CREDIT

This course introduces students to the fundamentals of weight training, focusing on safety, proper form, and progressive strength development. Students will learn to design and implement personalized workout programs while gaining knowledge of various exercises targeting different muscle groups.

WEIGHT LIFTING

1 TRIMESTER – .5 CREDIT

(GRADES 9-12)

Weight Lifting is designed to give you a basic understanding of and appreciation for strength training as well as for cardiovascular fitness. Throughout the course of the semester you will be exposed to many different training principles, benefits of strength training and current training issues. Some issues of importance include: basic muscle physiology (including bone, muscle, and connective tissue), proper warm-up (including flexibility and stability), training methods and modes (including safety issues and spotting), nutritional factors in performance and health, basic cardiovascular and respiratory anatomy and physiology, psychological benefits of exercise, as well as many more. In addition, time may be spent on individual techniques to benefit those students involved in specific individual and/or team sports. All students will be subjected to standardized physical fitness testing each quarter and also during the final exam period.

ADVANCED PHYSICAL EDUCATION

1 TRIMESTER – .5 CREDIT

(GRADES 10-12)

This elective class is designed to give students a well-rounded program in a variety of physical activities, both team-based as well as individual-based. Students will participate in life long activities such as tennis, badminton, table tennis, pickleball, golf, archery, strength and condition, back-yard games, social dance, etc. In addition, team sports such as football, softball/whiffle ball, basketball, volleyball, team handball, soccer, etc. will be incorporated into the course. Throughout the semester students will be exposed to many fitness related topics. Some topics of interest are proper warm-up (including flexibility and stability), nutritional factors in performance and health, psychological benefits of exercise, as well as many more. Overall, students will develop an appreciation for physical fitness and learn about the positive impact it has on their general health and wellness. All students will be subjected to standardized physical fitness testing each quarter and also during the final exam period.

CONDITIONING FOR ATHLETES

1 TRIMESTER – .5 CREDIT

(GRADES 10 – 12)

This course is offered to students participating in the athletic program who wish to maximize their total fitness. Powerlifting, skill training in their relationship to athletics are practiced and assessed. Physical fitness levels may be assessed. It is understood that fitness is an ongoing process and that students may wish to repeat this course more than once. However, students may only earn 0.5 credits towards the physical education credit requirement.

OFFICIATING TEAM SPORTS

1 TRIMESTER – .5 CREDIT

(GRADES 10 – 12)

This course is for the student who has an interest in officiating. The class runs in conjunction with the MHSAA Mentor Program. Students gain knowledge of the rules and game management procedures and their proper application to the sports of softball/baseball, basketball, volleyball, and football. Instruction is intended to prepare students for state certification. It is understood that skill building is an ongoing process and that students may wish to repeat the course more than once. However, students may only earn a total of 0.5 credit towards the Physical Education graduation requirement.

INTRO TO NUTRITION

1 TRIMESTER – .5 CREDIT

(GRADES 10 – 12)

This elective course delves into the core principles of nutrition and its vital role in promoting health and optimizing physical performance. Students will explore the functions of macronutrients and micronutrients, the processes of digestion, meal planning strategies, and the influence of dietary choices on overall well-being. The course emphasizes hands-on applications, including crafting balanced meals, interpreting food labels, and understanding how nutrition supports physical activity. By the end of the course, students will be equipped with the knowledge and skills to make an informed, sustainable dietary choices that support lifelong health and fitness. This course is ideal for those looking to develop healthy habits for general wellness or athletic performance.

MATHEMATICS

REQUIRED COURSES - SEQUENCE CHART

MATH – 6.0 Credits

9 th Grade	10 th Grade		11 th Grade	12 th Grade
Algebra I	Geometry		Algebra II	Algebra II Year II
Geometry	Honors Geometry		Honors Algebra II	Pre-Calculus or Honors Pre-Calculus
Honors Geometry	Algebra II		Algebra II Year 1	AP Statistics or AP Statistics
	Honors Algebra II		Pre-Calculus	AP Calculus
			Honors Pre-Calculus	Math Relative Elective

GENERAL MATH COURSES

ALGEBRA I

FULL YEAR – 1.5 CREDIT

(GRADE 9)

This is a traditional entry level algebra course that emphasizes skills, concepts and application. The pace of this course is standard, requiring regular homework assignments and assumed study skills. The content of the course begins with the review of algebraic properties, expressions and solving for “x” with equations. The emphasis of the course is in the mastery of exponential functions, polynomial functions, linear functions, systems of linear functions, and quadratic functions. The course also provides for the introduction to exponents, polynomials, radicals and factoring.

GEOMETRY

FULL YEAR – 1.5 CREDIT

(GRADE 10)

This course is recommended after successful completion of Algebra I. This course assumes the student has demonstrated good homework habits and appropriate study skills as a prerequisite for continued success in this course. Geometry topics include reasoning and proof, parallel and perpendicular lines, congruent triangles, relationships within triangles, quadrilaterals, area, similarity, right triangle trigonometry, surface area and volume, circles and transformations.

ALGEBRA II – Year 1

FULL YEAR – 1.5 CREDIT

(GRADE 11)

This course is the basic study of the “families of functions”. Students revisit quadratic equations and move to the study of polynomial, exponential, and logarithmic functions. Students study these functions through graphical, numerical, and application problems. Students continue to create simulations, collect data, and generate mathematical models. Students in this course should have a foundation in Algebra and Geometry.

**NOTE: This course does not qualify as a NCAA full core course. Partial credit only is given.
Requires all four parts to receive one core credit.**

ALGEBRA II – Year 2
FULL YEAR – 1.5 CREDIT

(GRADE 12)

This course is the basic study of the “families of functions”. Students will begin with the study of inverse variation and rational functions. Students study these functions through graphical, numerical, and application problems. Sequences and series are studied whereby students apply their knowledge of functions to reveal patterns, recursion, and limits. The study of triangles and circles is continued from geometry and the student will be introduced to conic sections. Students continue to create simulations, collect data, and generate mathematical models. Students in this course should have a foundation in Algebra and Geometry.

NOTE: This course does not qualify as a NCAA full core course. Partial credit only is given.
Requires all four parts to receive one core credit.

ALGEBRA II
FULL YEAR – 1.5 CREDIT

(GRADES 10-12)

The main study of this course is in "families of functions". Students revisit quadratic equations and move quickly to the study of polynomial, exponential, logarithmic and rational functions. Students study these functions through graphical, numerical, and application problems. Sequences and series are studied whereby students apply their knowledge of functions to reveal patterns, recursion, and limits. The study of triangles and circles is continued from Geometry and the student will be introduced to conic sections. Students continue to create simulations, collect data, and generate mathematical models. To further their learning here, students will be introduced to methods of testing their models for accuracy and confidence. Students in this course should have a sound foundation in Algebra I and Geometry.

STATISTICS
FULL YEAR – 1.5 CREDIT

(GRADE 11 -12)

The purpose of this statistics class is to introduce students to the major concepts and tools for collecting, analyzing and drawing conclusions from the data. Students are exposed to five broad conceptual themes:

- 1) How to collect data (methods, size, and bias influences)
- 2) Explore data (observe patterns and departures from patterns)
- 3) Organizing data (decide what and how to measure and report the data: make a plan)
- 4) Find a Model (Using probability, regressions equations, and simulations to model and predict inside and outside the range of data)
- 5) Confirm Model (verify by using normal distribution and other tests of distribution)

PRE-CALCULUS
FULL YEAR – 1.5 CREDIT

(GRADES 11-12)

This course is designed for the junior or senior student who would like to continue taking mathematics, has been successful especially in Algebra I, II and Geometry, has concerns for keeping up with the rigor of an honors course, and wants to leave their options open for calculus in the following year. This course provides the prerequisite for taking calculus. The course of study continues with functions and their graphs. The first half of the course places emphasis on polynomial, rational, exponential, logistic and logarithmic functions. The second half of the course investigates and studies trigonometry and polar equations, matrices, discrete mathematics, and an introduction to limits as preparation for calculus.

HONORS GEOMETRY
FULL YEAR – 1.5 CREDIT

(GRADES 9-10)

This class is intended for the college bound student interested in developing an intensive mathematics background. This course parallels the Geometry description, in addition projects and exploration activities will be included throughout the year. The honor student pacing will follow the extended course guidelines intended for students with strong mathematical problem-solving skills, who are able to understand new concepts quickly and make connections to other mathematical concepts. Summer homework will be given.

HONORS ALGEBRA II
FULL YEAR – 1.5 CREDIT

(GRADES 10-11)

This class is intended for the college bound student interested in developing an intensive mathematics background. The honor student pacing will follow the guidelines intended for the student with strong mathematical problem-solving skills and the ability to understand new concepts quickly. Exploration of Algebra II topics will parallel the standard Algebra II course, in addition projects and individual exploration activities will be included throughout the year. Summer homework may be given. Students should have access to a graphing calculator on a daily basis.

HONORS PRE-CALCULUS
FULL YEAR – 1.5 CREDIT

(GRADES 11-12)

This course is designed for the college bound student who will need Calculus. Juniors enrolling in this course are expected to take AP Calculus during their senior year. In this course, students study and extend their working knowledge of functions, analytical geometry, polar coordinates, vectors, complex numbers, sequences and series, integration, and mathematical modeling. In the final marking period, students will begin to take on material covered in their first semester of Calculus. It is recommended that students have a strong background in linear, quadratic, exponential, and trigonometric functions for a successful transition into this course. The honor student pacing will follow the extended course guidelines intended for students with strong mathematical and problem-solving skills and who are able to understand new concepts quickly and make connections. Summer homework may be given.

AP CALCULUS AB
FULL YEAR – 1.5 CREDIT

(GRADE 12)

This class is intended for the college bound senior interested in developing an intensive mathematics background. A thorough background in Pre-Calculus is needed to do well in this class. The class content will include those topics covered in the first semester of a college calculus course. Limits and their properties, techniques and applications of differentiation and integration, logarithmic, exponential, and other transcendental functions will be covered. Students taking this class will be using the graphing calculator on a daily basis, and they are expected to do special group projects and journals. It is recommended that students taking this course take the AP Calculus Exam in May. Grades in this course are weighted. Summer homework may be given and will be counted as a test grade.

SCIENCE

REQUIRED COURSES - SEQUENCE CHART

Science – 3.0 Credits

9 th Grade	10 th Grade	11 th Grade	12 th Grade
Physical Science or Honors Physical Science	Physical Science or Honors Physical Science	Earth & Space Science	
Physics	Chemistry or AP Chemistry	Zoology Honors Human Physiology	
	Physics or AP Physics	AP Chemistry Chemistry AP Physics Physics AP Biology AP Environment Science	

GENERAL SCIENCE COURSES

PHYSICAL SCIENCE

FULL YEAR – 1.5 CREDIT

(GRADE 9- 10)

Students will study atomic structure, matter, particle diagrams, physical and chemical changes along with the periodic table. During the semester of physics students will be learning about the matter in motion, forces and motion along with work and machines. Students will be engaged in experiments and in class activities involving various chemicals or apparatuses in order to learn or demonstrate understanding of physics and chemistry concepts.

HONORS PHYSICAL SCIENCE

FULL YEAR – 1.5 CREDIT

(GRADE 9- 10)

Students will study atomic structure, matter, particle diagrams, physical and chemical changes along with the periodic table. During the semester of physics students will be learning about the matter in motion, forces and motion along with work and machines. Students will be engaged in experiments and in class activities involving various chemicals or apparatuses in order to learn or demonstrate understanding of physics and chemistry concepts.

PHYSICS

FULL YEAR – 1.5 CREDIT

(GRADE 9- 10)

Physics will extensively examine the concepts of matter and energy. Honors Physics is designed as a college preparatory class and will be helpful for all students interested in pursuing careers in science, technology, engineering, or mathematics. In this course, students will thoroughly examine forces, scalars and vectors, Newton’s laws of motion, gravitation, momentum and its conservation, the concept of work, and the conservation of energy. Students will examine the concepts listed above through experimental investigation, developing models, group collaboration, simulations, individual problem-solving, and lecture. Students will be expected to follow the honor student pacing which has extended course guidelines intended for students with strong mathematic and problem-solving skills.

CHEMISTRY

FULL YEAR –1.5 CREDIT

(GRADE 10 - 12)

Chemistry is the study of matter, and in this course, students will be introduced to the structure, properties, and composition of matter and the changes that matter undergoes. In doing so, students will study the phases of matter, chemical formulas, learn how to write and balance chemical formulas and equations, become familiar with the periodic table, study atomic structure, chemical bonding, acids and bases, and learn some of the properties of solutions.

Students must be mature enough to handle potentially dangerous materials in lab situations and proficient at taking notes. Written lab reports are required for each lab. A good deal of story-type problem solving is involved in many of the chapters.

EARTH AND SPACE SCIENCE

FULL YEAR – 1.5 CREDIT

(GRADE 11)

Earth & Space Science is a course designed to provide students with an introduction to earth & space concepts. This includes, but is not limited to, the history of the Earth, Earth's systems, weather & climate, human sustainability, space systems, as well as additional key topics. Students will investigate essential earth & space concepts, will acquire a better understanding of the role the earth plays in each individual's life, and will be encouraged to develop an inquiry-based mindset. Laboratory experiences will play a role in developing each student's understanding of key concepts. Students must be mature enough to handle the laboratory environment, including equipment, techniques, and safety.

AP CHEMISTRY

FULL YEAR – 1.5 CREDIT

(GRADES 10-12)

Advanced Placement Chemistry is a 2nd year chemistry course for students who have completed Honors Chemistry I or Chemistry I. It is a college-level course, covering typical curriculum of two semesters of college chemistry. AP Chemistry is lecture intensive and students will be expected to be active participants. Students will perform a number of experiments and will complete formal lab reports similar to what will be expected in a college course. The ultimate goal of the course is preparation for the AP Chemistry Exam, given in May, on which students can earn college credit.

HONORS HUMAN PHYSIOLOGY (3095/6)

FULL YEAR – 1.5 CREDIT

(GRADES 11-12)

Human Physiology is a full year course in which there is extensive examination of the structure and function of the 10 human body systems. This class is college preparatory and helpful for all students interested in pursuing careers in the medical field or forensic science. The class is a combination of lecture, classroom activities and laboratory work. Students will be dissecting individual sheep organs and a fetal pig. Students enrolled in this class will have required summer course work, and career/medical journal writing assignments to enhance their general course work.

ZOOLOGY

FULL YEAR – 1.5 CREDIT

(GRADES 11-12)

This course will begin with a brief review of biology, covering characteristics of living things, biological and ecological organization, discussion of different mechanisms of attaining energy and cell types, as well as symbiotic relationships. We will discuss the different animal classification systems, evolution and different ways to organize ancestry. Students will be introduced to the 9 major animal phyla, shared characteristics of animals and differences in reproduction methods, processes, and reproductive development.

AP BIOLOGY**FULLYEAR – 1.5 CREDITS****(GRADES 11-12)**

This course is an introductory college-level biology course. Students cultivate their understanding of biology through inquiry-based investigations as they explore topics like evolution, energetics, information storage and transfer, and system interactions.

AP ENVIRONMENTAL SCIENCE**FULLYEAR – 1.5 CREDITS****(GRADES 11-12)**

AP Environmental Science is a full year course that studies the relationships of the natural world through the ideas of energy transfer, interaction of the earth's system, interactions of the species with their environment, and sustainability of our world for the future. This course uses inquiry-based labs and field work to bring the content together.

INTRO TO THE HUMAN BODY**ONE TRIMESTER - .5 CREDITS****(GRADES 9 – 12)**

This course provides an introduction to the structure and function of the human body, focusing on the 11 major body systems and how they interact to maintain overall health and homeostasis. Students will explore the anatomical organization of the human body, from cells to organs and systems, and gain an understanding of how these components work together to perform vital functions, and the importance of integrated system interactions for health and survival. Students would also dissect a fetal pig as a culminating activity.

SOCIAL STUDIES

REQUIRED COURSES - SEQUENCE CHART

SOCIAL STUDIES – 3.0 Credits

9 th Grade	10 th Grade	11 th Grade	12 th Grade
US History	World History	AP US Govt (full year) or US Govt (1 trimester) and Economics (1 trimester)	Psychology or Sociology (can be taken as elective) AP Psychology can be taken as elective
	AP World History		AP US History AP Psychology or Sociology (can be taken as elective)

U.S. HISTORY

FULL YEAR – 1.5 CREDIT

(GRADE 9)

The purpose of the ninth-grade social studies curriculum is to increase students' knowledge of the development of the United States as a democratic nation. The course is organized as a chronological survey of the American past from 1900 to the end of World War II. Emphasis will be placed on major events, individuals and ideas comprising our American heritage. Students will increase their knowledge of historical insights and the development of democratic values. They will enhance their skills in processing and evaluating information. Knowledge of our past will help the students understand our present and encourage citizen involvement to make changes for a better future.

The course is organized as a chronological survey of the American past from America Homefront News during World War II to 911. Emphasis will be placed on major events, individuals and ideas comprising our American heritage. Students will increase their knowledge of historical insights and the development of democratic values. They will enhance their skills in processing and evaluating information. Knowledge of our past will help the students understand our present and encourage citizen involvement to make changes for a better future.

AP U.S. HISTORY

FULL YEAR – 1.5 CREDIT

(GRADES 9 -12)

The AP U.S. History course focuses on the development of historical thinking skills (chronological reasoning, comparing and contextualizing, crafting historical arguments using historical evidence, and interpreting and synthesizing historical narrative) and an understanding of content learning objectives organized around seven themes, such as identity, peopling, and America in the world. In line with university U.S. history survey courses' increased focus is on early and recent American history and decreased emphasis on other areas. The AP U.S. History course expands on the history of the Americas from 1491 to 1607 and from 1980 to the present. It will explore events of U.S. history through the use and analysis of documents, images, cartoons, quantitative data, and other primary and secondary sources.

WORLD HISTORY

FULL YEAR – 1.5 CREDIT

(GRADE 10 REQUIRED)

The purpose of the World History class is to provide knowledge and understanding of the eastern and western worlds through a chronological format. This study allows for a connectedness between cause and effect and the rise and fall of history's great empires. World History I covers from 600 CE/AD through the French Revolution in the 1800's. A central theme of the course is development of a rich, global perspective in which students acquire an appreciation of the world and its many peoples and cultures whose traditions, beliefs, and values are similar to, or perhaps different from our own. Also, studies is eastern and western worlds through a chronological format. This study allows for a connectedness between cause and effect and the rise and fall of history's great empires. World History II begins where World History I ended with the rise of the European Imperialism and concludes with the study of current global changes. A central theme of the course is development of a rich, global perspective in which students acquire an appreciation of the world and its many peoples and cultures whose traditions, beliefs, and values are similar to, or perhaps different from our own.

A.P WORLD HISTORY

FULL YEAR – 1.5 CREDIT

(GRADE 10)

The express purpose of this course is to prepare students to take the AP World History exam. The course is for all intents and purposes taught on a college level, and it requires a substantial amount of reading and preparation for every class. Students are expected to prepare outside of class for the rigors of the exam practice in class.

GOVERNMENT

1 TRIMESTER – .5 CREDIT

(GRADE 11 REQUIRED)

This course introduces students to the workings of American Government. Students will learn not only about American political institutions, such as the presidency, Congress, and the Supreme Court, but will also learn about how the average American participates in government. Upon completion of this course, students will be capable of analyzing and critiquing the structures and institutions of the American government and the political actors who shape and mold our system. Students will learn about democratic principles, the structures of the U.S. political system, civil liberties and rights, the inputs to democratic governance such as public opinion, the media and elections, and public policy.

ECONOMICS

1 TRIMESTER – .5 CREDIT

(GRADES 11-12)

Economics is a problem-based learning course that investigates how the economic laws of scarcity, opportunity cost, supply and demand and diminishing returns influence how human societies produce, distribute and consume goods and services. Students will interpret economic indicators presented in graphs, charts and tables and use a variety of application software to analyze, interpret and present information.

SOCIAL STUDIES

ELECTIVE COURSES

INTRODUCTION TO LAW

1 TRIMESTER – .5 CREDIT

(GRADES 9-12)

Introduction to law provides an overview of the law, and the legal system. Like any introductory course, Intro to Law is a survey. We will touch on broad and specific legal topics to give students a better understanding of law and how it affects you in real life. We will use case studies, individual research, group discussion / debate, guest speakers and mock trials throughout the course in order to reach our goal. Dueling opinions and lively debate should be the norm in this course making the class fun, enriching and meaningful.

AP U.S. HISTORY
FULL YEAR – 1.5 CREDIT

(GRADES 9 -12)

The AP U.S. History course focuses on the development of historical thinking skills (chronological reasoning, comparing and contextualizing, crafting historical arguments using historical evidence, and interpreting and synthesizing historical narrative) and an understanding of content learning objectives organized around seven themes, such as identity, peopling, and America in the world. In line with university U.S. history survey courses' increased focus is on early and recent American history and decreased emphasis on other areas. The AP U.S. History course expands on the history of the Americas from 1491 to 1607 and from 1980 to the present. It will explore events of U.S. history through the use and analysis of documents, images, cartoons, quantitative data, and other primary and secondary sources.

PSYCHOLOGY
1 TRIMESTER – .5 CREDIT

(GRADES 11-12)

The purpose of this course is to acquaint students with the study of the human mind and behavior. Students will become familiar with the competing theories explaining why people behave as they do. Other topics include sleep research, sensation and perception and personality. The course is especially valuable to students interested in careers involving interaction with other people, such as education, law enforcement, management, and the medical professions. The course material is also valuable for personal improvement and for future responsibilities such as parenting. The course is oriented toward the college-bound student, yet has application to every person's daily life. NOTE: Student can take AP Psychology as well.

AP PSYCHOLOGY
FULL YEAR– 1.5 CREDIT

(GRADES 11-12)

The AP Psychology course introduces students to the systematic and scientific study of human behavior and mental process. While considering the psychologists and studies that have shaped the field, students explore and apply psychological theories, key concepts, and phenomena associated with such topics as the biological bases of behavior, sensation and perception, learning and cognition, motivation, developmental psychology, testing and individual differences, treatment of abnormal behavior, and social psychology. Throughout the course, students employ psychological research methods, including ethical considerations, as they use the scientific method, analyze bias, evaluate claims and evidence, and effectively communicate ideas. This course is designed to prepare the college bound student to take the AP Psychology test. NOTE: Student can take Psychology as well.

SOCIOLOGY
1 TRIMESTER - .5 CREDIT

(GRADES 11-12)

The purpose of this course is to acquaint students with the study of people in groups, and to relate this knowledge to problems of contemporary society. Topics include culture, collective behavior (fashion, fads, riots, etc.), status and roles, population studies, and the impact man has on his environment. The course is valuable for students interested in professions such as law enforcement, psychology, social work, management, education and politics. The class is oriented toward the college-bound student, yet has application to every person's daily life.

AP U.S. GOVERNMENT & POLITICS
FULL YEAR – 1.5 CREDIT

(GRADES 11-12)

This course explores the political theory and everyday practice that direct the daily operation of our government and shape our public policies. Students will develop a critical understanding of the strengths and weaknesses of the American political system, as well as their rights and responsibilities as citizens. This course includes the following topics: Constitutional underpinnings of U.S. government, political beliefs and behaviors, political parties, interest groups and mass media, institutions of national government, public policy, and civil rights/liberties.

The express purpose of this course is to prepare students to take the AP U.S. Government and Politics Exam. The course is for all intents and purposes taught on a college level, and it requires a substantial amount of reading and preparation for every class. **FOR FURTHER INFORMATION VISIT APCentral.CollegeBoard.com**

Note: This year-long course meets the Government requirement.

AP EUROPEAN HISTORY

FULL YEAR – 1.5 CREDIT

(GRADES 10-12)

During this elective AP course, students investigate significant events, individuals, developments, and processes in Europe from approximately 1450 to present. Students develop and use the same skills and methods employed by historians: analyzing primary and secondary sources; developing historical arguments; making historical connections; utilizing reasoning about comparison, causation, and continuity and change. The course also provides seven themes that students explore throughout the course in order to make connections among historical developments in different times and places: interaction of Europe and the world, economic and commercial development, cultural and intellectual development, states and other institutions of power, social organization and development, national and European identity, and technological and scientific innovations.

ART HISTORY

1 TRIMESTER - .5 CREDIT

(GRADES 11-12)

Students will better understand and appreciate history through analyzing works of art to place them in the historical context and explore concepts such as cultural interactions, interpretation, impact, techniques and process, purpose and audience.

HISTORY THROUGH SPORTS

1 TRIMESTER - .5 CREDIT

(GRADES 10-12)

This elective course will examine the role sports have played in shaping global history. The course will be diving into the historical, social, and cultural impact sports has had throughout history.

LEADERSHIP

1 TRIMESTER - .5 CREDIT

(GRADES 10-12)

This course introduces students to the fundamental principles of leadership, helping them develop essential skills such as communication, decision-making, teamwork, and responsibility. Through a combination of classroom instruction and real-world applications, students will explore different leadership styles, develop peer support skills, and create/organize various school activities that directly impact our school culture and the community. The course emphasizes self-awareness, empathy, and the ability to lead with integrity, preparing students to take on leadership roles both in school and beyond. This course is ideal for students interested in building confidence, making a positive impact, and developing strong leadership qualities.

WORLD LANGUAGES

FRENCH

FRENCH I

FULL YEAR – 1.5 CREDIT

(GRADES 9-12)

French I is designed to introduce the student to the French language and culture. The emphasis is placed on basic speaking, listening, reading, and writing skills. The differences, rather than the similarities, between the American and Francophonic cultures are stressed.

FRENCH II

FULL YEAR – 1.5 CREDIT

(GRADES 10-12)

This course is a continuation of French I. The student learns the more technical aspects of French grammar and structure. The emphasis is placed on communication skills within cultural context.

PREREQUISITE: French I.

FRENCH III

FULL YEAR – 1.5 CREDIT

(GRADES 11-12)

This course is an introduction to French literature including short stories, plays, novels, poetry, and fine arts. The emphasis is placed on composition and on the perfection of the language skills learned in first and second level French.

PREREQUISITE: French II.

FRENCH IV

FULL YEAR – 1.5 CREDIT

(GRADES 11-12)

This course is a continuation of French III. Additional literature is studied as well as the finer aspects of composition and articulation.

PREREQUISITE: French III.

GERMAN

GERMAN II

FULL YEAR - 1 CREDIT

(GRADES 10-12)

German II is a continuation of German I. The course is designed to further the four language skills: Listening, speaking, reading and writing. Students will use correct grammar in conversation and in writing. Participation in dialogues and group presentations is required.

PREREQUISITE: German I.

SPANISH

SPANISH I

FULL YEAR – 1.5 CREDIT

(GRADES 9-12)

Spanish I is a broad-based course designed to introduce the student to all aspects of foreign language study. Grammar, reading, writing, speaking and listening to Spanish are included. Cultural information is provided with movies, music and readings.

SPANISH II
FULL YEAR – 1.5 CREDIT

(GRADES 9-12)

Second year Spanish continues the study of all areas of foreign language skills, grammar, reading, writing, speaking and listening. Information on cultural areas is offered through readings and audio-visual presentations.

PREREQUISITE: Spanish I

SPANISH III
FULL YEAR – 1.5 CREDIT

(GRADES 10-12)

Third level Spanish introduces the student to Spanish or Latin American literature after a review of grammar. Oral expression is encouraged through class discussion and written expression through papers covering the literature read in class. Grammar, reading, writing, speaking and listening skills are the focus of this course.

PREREQUISITE: Spanish II

SPANISH IV
FULL YEAR – 1.5 CREDIT

(GRADES 11-12)

Fourth level Spanish provides the serious student the opportunity to perfect speaking and writing skills through the study of Spanish or Latin American literature. Grammar is reviewed before readings are started. Reading, writing, speaking and listening skills are the focus of this course.

PREREQUISITE: Spanish III