HOWELL
PUBLIC SCHOOLS

HOWELL HIGH SCHOOL

2022 - 2023
COURSE GUIDE
9th-12th grades

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MISSION STATEMENT
Howell Public Schools is an exemplary learning community committed to maximizing every student's success.

VISION
Empowering students to be successful citizens.

This Course Guide is published by the Counseling Office.
Updated:

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NOTE: Courses may be canceled due to lack of sufficient enrollment or financial reasons.

.50 CREDIT = 1 semester
1 CREDIT = both semesters / full year
2 CREDITS = 2 HOUR BLOCK / both semesters / full year
3 CREDITS = 3 HOUR BLOCK / both semesters / full year

GRADUATION REQUIREMENTS

All students must meet the following course requirements listed below. Earn twenty-five (25) credits in the following areas:

English ..... 4 Credits
Social Studies ..... 3 Credits
- .50 Government
- .50 Economics
- 1.0 US History / Geography
- 1.0 World History / Geography

Mathematics ..... 4 Credits
- 1.0 Algebra 1
- 1.0 Geometry
- 1.0 Algebra 2
- 1.0 Additional Math or Math-related credit

Science ..... 3.5 Credits
- 1.0 Biology
- 1.0 Chemistry
- 1.0 Physics
- .5 Earth Science

World Language ..... 2 Credits
Health ..... .50 Credits
Physical Education ..... .50 Credits
Visual, Performing, Applied Arts ..... 1 Credit
Electives ..... 6.5 Credits

Total Credits for Graduation: ..... 25 minimum

This curriculum guide acquaints both parents and students with the curricular offerings at Howell High School. We believe that the best curricular choices are made by students who have carefully read this book and who have also explored their potential career goals with their parents. Good decisions at this time will enhance possibilities after high school. Students should design a four-year program during the ninth grade, making changes as new ideas and information make it necessary.

MICHIGAN MERIT CURRICULUM HIGH SCHOOL GRADUATION REQUIREMENTS

To prepare Michigan's students with the knowledge and skills needed for the jobs in the 21st Century, the State of Michigan has a rigorous set of statewide graduation requirements that are among the best in the nation. Students will be well-prepared for future success in college and the workplace. The Michigan Merit Curriculum requires students to obtain a minimum of 18 credits for graduation, which could be met using alternative instructional delivery methods such as alternative course work, humanities course sequences, career and technology courses, industrial technology or vocational education courses, or through a combination of these programs.

SCHEDULE CHANGES: DROPPING AND ADDING COURSES

Master schedule decisions, including how many seats will be available for each individual course, are based on the course selections of the students. Course selections are firm commitments. This is especially true of yearlong classes.

Schedule changes may be requested during the summer orientation week or within the first five school days of each semester. After the first 5 days, the only class changes considered will be those due to student placement in an incorrect course level, and this must occur in the first 6 weeks of the school year. Changes to semester long elective courses will not be made without an academic reason.

After the school year begins, students will not be permitted to drop a yearlong class at the end of semester one or drop a semester class prior to the end of the semester unless there are extreme circumstances determined by an administrative review. Schedule changes based on teacher preference will not be made. HHS administration reserves the right to change student schedules due to disciplinary reasons. Schedules may change at the beginning of semester two. Every effort will be made to preserve teachers in yearlong classes. Specific, in-depth information about schedule changes can be found in the Student-Parent Handbook.

All students must attend the classes on their current schedule until the classes are rescheduled. Attendance and academic records will be forwarded to the new classes, if applicable. HPS Policy requires that all HHS students have a full schedule with 7 class periods, regardless of the number of credits still needed for graduation.

WORK-BASED LEARNING (CO-OP)

Work-Based Learning Credit may be earned through **CO-OP or INTERNSHIP** placements. Students have the option to be released from school early to participate in the work-based learning program.

Students are employed by a business that agrees to provide on-the-job training that correlates with concurrent classroom instruction. Work-based learning experiences can help a student make career decisions, network with potential employers, select courses of study and develop job skills relevant to future employment. Through the interaction of work and study experiences, students can enhance their academic knowledge, personal development and professional preparation. The school coordinator monitors the student's work performance.

CRITERIA: To enroll in the CO-OP or INTERNSHIP program, the following must be met:

- All paperwork is complete on due date determined by school coordinator
- Student is concurrently enrolled in a related course approved by the school coordinator (see course description for a list of approved courses)
- Training site is approved by school coordinator
- Training relates to student's course of study and career zone
- Student averages 5 hours of work per week per credit hour
- Employer/student/parents agree to program policies
- Student is junior or senior status

AIR FORCE JUNIOR ROTC

1110 AFJROTC: AEROSPACE SCIENCE AND LEADERSHIP EDUCATION

Grades 9, 10, 11, 12 * 1 Credit * Career Zone: AC, BMMT, EMIT, HES, HUS, NRA

AFJROTC is a customized course that offers rotating topics each academic year. The Aerospace Science portion of AFJROTC, *Exploring Space: The High Frontier* will introduce students to the latest information available in space science and space exploration. The course begins with the study of the space environment, through the Renaissance, and on into modern astronomy. It provides an in-depth study of the Earth, Sun, stars, Moon, and solar system, including the terrestrial and the outer planets. Leadership Education 400, *Principles of Management* provides exposure to the fundamentals of management. The course contains many leadership topics that will benefit students as well as provide them with some of the necessary skills needed to put into practice what they have learned during their time in AFJROTC. Topics include: Introduction to Management, Planning, Organizing and Leading. AFJROTC is not a military recruitment program and has no military obligation related to this class. This class is a Leadership and Citizenship Program.

1119 JROTC: MANAGEMENT OF THE CORPS

Grade 12 * 1 Credit * Career Zone: AC, BMMT, EMIT, HES, HUS, NRA

Prerequisite: Completed 3 years of Air Force Junior JROTC & Approval of the Senior Aerospace Science Instructor

This senior level curriculum consists of management of the Cadet Corps. The cadets in this course run the entire AFJROTC program during the academic year. The hands-on experience affords the cadets the opportunity to put the theories of previous leadership courses into practice. The cadets utilize their communication, decision-making, personal interaction, managerial, and organizational skills. Leadership Education 200 stresses communication skills and cadet corps activities. Instruction is provided on communicating effectively, understanding groups and teams, preparing for leadership, solving conflicts and problems, and personal development. Wellness training consists of exercises that will increase your flexibility, strength and overall physical condition. AFJROTC is not a military recruitment program and has no military obligation related to this class. This class is a Leadership and Citizenship Program.

LIVINGSTON CAREER & TECHNICAL EDUCATION (LCTE) AT HOWELL HIGH SCHOOL

609 ADVANCED TV / VIDEO PRODUCTION

Grades 10, 11, 12 * 1 Credit * Career Zone: EMIT, AC, BMMT

Prerequisite: C or higher in Introduction to TV / Video Production (608), Photography I (940), Digital Imaging (943), or Digital Art (944)

Fulfills MMC graduation requirement toward math-related experience for students currently in their senior year.

Fulfills MMC graduation requirement toward 1.0 credit in Visual, Performing, or Applied Arts.

Advanced TV/Video Production course provides students with an opportunity to gain extensive video production field-work and video editing experience. Students participating in this course not only are in a traditional high school class setting, but filming and producing live events. Students will meet course requirements by attending and filming school events, such as sporting games, plays, concerts, etc.; and editing footage. Student will use online technologies to communicate and track progress in course. It is recommended that students complete TV/Video Production or Digital Video. This course has been approved to meet the visual/performing/applied arts credit.

1604 CAD DESIGN

Grades 10, 11, 12 * 2 Credits * Career Zone: EMIT

Fulfills MMC graduation requirement toward math-related experience for students currently in their senior year / Fulfills MMC graduation requirement toward 1.0 credit in Visual, Performing, or Applied Arts.

This two-year design course is designed to create opportunities for students to learn the necessary skills and knowledge acquired to help prepare for the field of Mechanical Engineering and/or residential Architectural Design. In this course, students will be exposed to key facets of mechanical product design and will teach the understanding of the unique requirements of this profession. In addition, the class is taught in a facilitated environment, which allows students to excel their abilities. This course is aligned with the Engineering/Manufacturing and Industrial Technology Career Zones.

To achieve this goal:

1. Develop your ability to use the latest state-of-the-art CAD Software such as NX 10, AutoCAD 2018, Inventor 2018, Revits 2018, and Softplan 2014.
2. Develop the ability to understand and apply engineering and scientific principles to solutions of real-world problems.
3. Develop the ability to understand and unique requirements in design of mechanical products and services.
4. Develop the ability to effectively communicate the product design process through CAD drawings and manufacturing.
5. Develop the ability to construct and design mechanical parts using CAD/CAM software (Master CAM) and the ability to manufacture engineering parts using a 3D printer, Router, Plasma Cutter, CNC mill, which allows students to bring their projects to life.
6. In addition, students will be working on various math & physics worksheets. They will be required to write a Resume, references, cover letter, thank you letter and complete a portfolio. All students will be required to complete a full set of engineering drawings, which consists of an assembly drawing and details using various designed-related topics and tools discussed throughout this two-semester course. The goal is for all students to participate in Michigan Industrial Technology Educational Society (MITES) and also be their end-of-the-year final project, which will provide exposure to and pride for their hard work.

Deliverable:

The major curriculum for the fall semester is:

1. First semester students will learn CAD Software through the use of tutorials, which will teach all the facets of the CAD software and drafting. By the middle of second semester, students should be able to create a complete set of working assembly drawings (engineering) or residential house drawings, if they choose Architectural.
    a. Geometric Construction
    b. Orthographic Views
    c. Dimensioning & Tolerancing
    d. Sections
2. Second semester students will learn:
    a. Safety, Drawing and Classroom Procedures
    b. Pictorial Drawings
3. Third Semester students will learn:
    a. Fasteners
    b. Leadership/Employability Skills
4. Fourth semester students will learn:
    a. 3D Parametric Drawing
    b. Assembly/Working Drawings

1775 CULINARY ARTS & HOSPITALITY 1

Grades 11, 12 * 2 Credits * Career Zone: BMMT

Strongly Recommended: Nutrition and Culinary Exploration 1 (710) and Nutrition and Culinary Exploration II (711)

Fulfills MMC graduation requirement toward math-related experience for students currently in their senior year. / Fulfills MMC graduation requirement toward 1.0 credit in Visual, Performing, or Applied Arts.

The Culinary Arts and Restaurant Management program at Howell High School is a class available for any juniors or seniors interested in food, cooking, baking, pastries, restaurant operations, management skills, and/or the food industry in general. Learn about the exciting and addicting environment of the restaurant business in the student-run cafe: The Highlander Restaurant. Students will also have the opportunity to participate in several competitions, both in class and out of class - most specifically the ProStart Competition which is a nationally recognized competitive opportunity. This class is a prerequisite to Culinary Arts and Restaurant Management 2.

1776 CULINARY ARTS & HOSPITALITY 2

Grade 12 * 2 Credits * Career Zone: BMMT

Prerequisite: Culinary Arts & Hospitality 1(1775)

Fulfills MMC graduation requirement toward math-related experience for students currently in their senior year. / Fulfills MMC graduation requirement toward 1.0 credit in Visual, Performing, or Applied Arts.

Culinary Arts and Restaurant Management 2 is the second installment of the culinary program at Howell High School. In this class, students will have increased responsibilities and more advanced and exciting opportunities to excel in the food industry. Some of the many opportunities available are management roles, not only within the restaurant but also event management and creative design duties; menu planning, creating recipes, and ServSafe and ProStart certifications (which are nationally recognized accreditation), along with internship opportunities in the local restaurant industry. This class will help to provide students with a smooth transition into their college culinary experience, and the professional industry as well.

1780 EARLY CHILDHOOD EDUCATION I AND II

Grades 11, 12 * 2 Credits * Career Zone: HUS

Prerequisite: Education and Training Career Pathways and instructor/counselor determination of student's potential for success.

Recommended: Child Development and Psychology (721), Psychology (254)

Fulfills MMC graduation requirement toward math-related experience for students currently in their senior year. / Fulfills MMC graduation requirement toward .5 credit in Visual, Performing, or Applied Arts.

This class is for students who are preparing for a career in education working with young children! Student-operated on site preschool programs and elementary classrooms provide hands-on learning experiences. Students will be introduced to occupations of preschool and elementary teacher, childcare provider, therapist, special education teacher plus many more. Students will understand and apply communication and collaboration skills, classroom management techniques and strategies, and employ fundamental knowledge of educational philosophies to enhance learner achievement. A secondary goal of the program is to develop future community leaders who will become civic advocates for public education.

Second year students' will work toward the National Child Development Associate Certificate (CDA).

***College credit is available through articulation and/or direct credit with Ferris State University, Western Michigan University, Saginaw Valley, Oakland University, Central Michigan University, Baker College and possible others. ***

1790 HEALTH OCCUPATIONS FIRST YEAR PROGRAM:

Grades 11, 12 * 2 credits * Career Pathway: HES

Recommended Prerequisites: Algebra I (C or better)

Recommended Prerequisites or Corequisites: Anatomy and Chemistry

This class is designed to prepare students for successful entry into the world of health care. The knowledge and competencies established in the program are considered essential to many job titles in the health care industry. Students enrolled in this program will learn basic medical terminology and medical abbreviations, entry level skills to work in a health care system, Basic Life Support (CPR) certification, First Aid certification, Bloodborne Pathogen training, HIPAA regulations, safety practices, teamwork, leadership, job seeking skills and development of a portfolio. These skills are applied in a variety of clinical settings, including Saint Joseph Mercy Hospital, Medilodge facilities, outpatient physical therapy, veterinary clinics, athletic training, doctor and dental offices. Uniforms and white clinical shoes are required for clinical attire. TB testing and immunizations are required for students to participate in clinical experiences. Second year certification programs are available for Nurse's Aide (CNA) and EMT. Please see the second year course descriptions for additional information.

1798 HEALTH OCCUPATIONS II – CERTIFIED NURSING ASSISTANT (CNA)

Grade 12 * 1 Credit * Career Zone: HES

Prerequisite: Credit in Health Occupations I (1790), teacher recommendation, application and interview

Fulfills MMC graduation requirement toward 1.0 credit in Visual, Performing, or Applied Arts.

This course provides the student with the knowledge and clinical experience to earn a Certified Nursing Assistant state certificate. Students must provide their own transportation to clinical rotations and some Saturday classes are required. This course will occur only in semester 2 as a 2-hour block hours 0 and 1.

608 INTRODUCTION TO TV / VIDEO PRODUCTION

Grades 10, 11, 12 * .50 Credit * Career Zone: EMIT, AC, BMMT

Fulfills MMC graduation requirement toward math-related experience for students currently in their senior year when taken with 609 Advanced TV / Video Production. / Fulfills MMC graduation requirement toward 1.0 credit in Visual, Performing, or Applied Arts.

This class is a hands-on class that will provide students with an overview of television and video production. Students will learn about the tools and technology required to put together several different types of television and video projects. Students will then gain a working knowledge of a news broadcast. Students will plan, create, format, and evaluate television and video production. Projects that are relevant to the television and video industry. This course meets the State of Michigan's 21st Century Applied Learning Core Skills standards and benchmarks.

1692 MANUFACTURING / INTERNSHIP

Grades 11, 12 * 2 Credits * Career Zone: EMIT

Fulfills MMC graduation requirement toward math-related experience for students currently in their senior year. / Fulfills MMC graduation requirement toward 1.0 credit in Visual, Performing, or Applied Arts.

First Year Program: This course offers an introduction to state of the art manufacturing techniques by providing an integrated approach to the design, production, and testing of objects and materials. Students begin the course by mastering the basics of a machine tool process, then move to more advanced projects involving computer numerical control (CNC) machining, computer aided drafting (CAD) and computer aided manufacturing (CAM). The welding portion of the course introduces students to shielded metal arc welding, gas metal arc welding, gas tungsten arc welding, cutting, and brazing. Throughout the course an emphasis on product production is maintained, and students develop skills useful in a modern manufacturing environment.

603 PRE CAD DESIGN

Grades 10, 11, 12 * .50 Credit * Career Zone: EMIT

Fulfills MMC graduation requirement toward 1.0 credit in Visual, Performing, or Applied Arts.

This demanding class is recommended prior to a trainee enrolling in a CTE CAD/Manufacturing class (1604). Students will be exposed to AutoCAD 2018 2D CAD where they will learn sketching, geometric construction, orthographic views, para-metric dimensioning, auxiliary views, section views, descriptive geometry, and assembly drawings. The class is designed to expose students to the field of Manufacturing Engineering/Designing. In addition, the class is taught in a facilitated environment, which allows them to excel in their abilities. This course is aligned with the Engineering / Manufacturing and Industrial Technology Career Zones.

690 PRE MANUFACTURING

Grades 10, 11, 12 * .50 Credit * Career Zone: EMIT

Recommended prior to Vocational Manufacturing Clusters.

Freshmen must be enrolled in Algebra 1 or at a higher math level.

Fulfills MMC graduation requirement toward 1.0 credit in Visual, Performing, or Applied Arts.

This demanding class is part of the Engineering / Manufacturing and Industrial Technology Career Zone. It will have provided information and experiences in: Safety, Measurement, Blueprint Reading, Drafting Concepts, hand tools, employability skills, layout, materials selection, basic manual machine techniques, technical reading, technical math, research and development, oxy-fuel, plasma, saw, torch, sheet metal, mill, lathe, etc. It is aligned with the Vocational Applied Technology Programs. Mature behavior, attitudes and a safety mentality are prerequisites for this program.

LIVINGSTON CAREER & TECHNICAL EDUCATION (LCTE) OFF CAMPUS

Location: Job Site

1619 CONSTRUCTION 1

Grades 11, 12 * 2 Credits * Career Zone: EMIT

Fulfills MMC graduation requirement toward math-related experience for students currently in their senior year. / Fulfills MMC graduation requirement toward 1.0 credit in Visual, Performing, or Applied Arts.

Students will have the opportunity to work with licensed electricians, plumbers and HVAC contractors, as well as other industry professionals, to learn the basics of residential construction while exploring career opportunities in the construction trades. This class is designed to be 30% classroom learning with 70% hands-on work. All tools and equipment will be provided, including all safety PPE. Students will be required to have the proper footwear and clothing. After completing this course, graduates will have job opportunities from local contractors, businesses, unions, trade schools, and college programs in construction degrees. Topics covered include excavation/site prep, foundations/concrete, rough framing, mechanicals, exterior & interior finishes, blueprint reading, permits, building code, Osha 10 Certification & Home Builders Association of Michigan Certification.

1622 CONSTRUCTION 2

Grades 11, 12 * 2 Credits * Career Zone: EMIT

Prerequisite: Credit in Construction 1

Fulfills MMC graduation requirement toward math-related experience for students currently in their senior year. / Fulfills MMC graduation requirement toward 1.0 credit in Visual, Performing, or Applied Arts.

This course is designed for students who are seriously considering a career in the construction trades. Students will apply the skills they learned in Construction 1 to build an upscale home in the Howell community to be sold on the open market. All tools and equipment will be provided, including all safety PPE. Students will be required to have the proper footwear and clothing to work in all weather conditions. Students will work with multiple licensed builders, electricians, plumbers, HVAC contractors and other professionals from the trades. All participants will get a wide range of experience with all aspects of the build. After completing this course, graduates will have job opportunities from local contractors, businesses, unions, and trade schools.

Location: Dorr Rd., Brighton Fire Station

1794 FIREFIGHTERS I & II

Grades 11, 12 * 3 Credits * Career Zone: EMIT

Fulfills MMC graduation requirement toward 1.0 credit in Visual, Performing, or Applied Arts. / Fulfills MMC graduation requirement toward 1.0 credit of additional science.

This elective will provide students an opportunity to receive State of Michigan Firefighters I & II training beginning as early as 16 years of age, heading to their state certification. Firefighters I & II is a one school-year course that blends a combination of classroom knowledge and firefighter practical skills necessary for successful completion of the State certification. Cadets will learn all aspects of firefighter training in an academy setting, complete with fire trucks and firefighting equipment. Interested students must meet:

- Academic criteria – must be on-track for their graduating Class
- 90% minimum attendance and 70% average classroom scores, for State of Michigan Firefighter Certification.
- Commitment to one 8-hour Saturday training session each month throughout the school year

Location: Tooley Rd., Livingston EMS Bldg.

1793 HEALTH OCCUPATIONS: EMERGENCY MEDICAL TRAINING (EMT)

Grade 12 * 2 Credits * Career Zone: EMIT, HES

Recommended Prerequisite: C or higher in Health Occupations I (1790), or Anatomy (1324) concurrently with, or Anatomy (1324) prior to EMT.

Fulfills MMC graduation requirement toward 1.0 credit in Visual, Performing, or Applied Arts.

This year-long program prepares students for basic Emergency Medical Technician certification through a rigorous hands-on approach to first aid and lifesaving techniques. The course delivery includes lectures, discussions, group work, and extensive practice with simulators and colleagues. Successful students will qualify for First Responder and CPR certifications as well as the National Registry of Emergency Medical Technician examination (taken after the age of 18 and required for licensure). Attendance at sessions outside of normal school hours will be required in order to meet training objectives. This course is available for Seniors who: are able to show proof of immunization status that is up to date, are willing to receive industry required immunizations, are able to pass drug tests and background checks necessary for community-based practical experiences. AND meet one of the following criteria: successful completion of Health Occupations I and recommendation by the instructor, active participation in a Junior Firefighter or Explorer program focusing on Emergency Services as evidenced by group leader recommendation, successful completion of a high school Anatomy and Physiology course and strong interest in health careers, medicine, or emergency service career areas plus recommendation by teachers or counselors. College credit for this course may be available.

Location: Livingston County Spencer J. Hardy Airport Crosswinds Aviation Training Center

1624 PRIVATE PILOT GROUND SCHOOL

Grades 11, 12 * 2 Credits

Prerequisite: Pre-arranged free Young Eagle flight w/certified pilot or $125 materials fee

This course offers a structured curriculum to learn all the knowledge required to pass the FAA Private Pilot Knowledge exam. Passing this exam is a requirement for obtaining an FAA Private Pilot license, which is the first step to becoming a career pilot. The knowledge learned is also applicable to any career in Aviation. The course will be two class periods in length and will be housed at Crosswinds Aviation training center.

Location: Brighton College of Cosmetology

1751 COSMETOLOGY

Grades 11, 12 * 3 Credits * Career Zone: HUS

A full two-year (plus one summer) program, which instructs students to perform a variety of beauty treatments operations. These include care and beautification of hair, complexion, and hands. Also included are shampoos, rinses, scalp treatment, styling, tinting, bleaching, waiving, facials, and manicuring. If good attendance is maintained, the student will complete the State required 1500 hours of instruction upon high school graduation and be eligible to take the Cosmetology State Board Examination. Students must pass this State Exam to be eligible for employment.

Location: Brighton High School

1580 GRAPHIC COMMUNICATIONS

Grades 11, 12 * 3 Credits * Career Zone: AC

Course Length: One or Two Year Course

Fulfills MMC graduation requirement toward math-related experience for students currently in their senior year. / Fulfills MMC graduation requirement toward 1.0 credit in Visual, Performing, or Applied Arts.

This class covers the processes and industries that create, develop and produce products using or incorporating words or pictorial images to convey information, ideas and feelings. Technologies you will learn include: product planning and layout, desktop publishing; graphic arts photography; image assembly; image reproduction; bindery and finishing operations; screen printing; ink and paper and career employability skills. Projects you will produce will be a memo pad, greeting card, business card and t-shirt. This class may be taken for two years.

Location: Fowlerville High School

1683 AGRISCIENCE

Grades 11, 12 * 3 CREDITS * Career Zone: NRA

Course Length: One Year Course

Fulfills MMC graduation requirement toward science. / Fulfills MMC graduation requirement toward math-related experience for students currently in their senior year.

This class provides students hands-on experiential learning opportunities.

BOTANY AND GREENHOUSE MANAGEMENT: Students will learn plant anatomy, physiology, soils and plant nutrition, tree and wildflower identification, maple syrup production, forestry and greenhouse management. Hands-on experience in our interactive learning lab, woodlot, and community-partner locations will take learning out of the classroom into real life scenarios.

ZOOLOGY AND VETERINARY SCIENCE: Aspects of animal anatomy, physiology and health will be taught in the classroom and brought to life with experiential learning opportunities. Hands-on projects could include aquaculture production, incubation of eggs and rearing of chicks, raising broiler chickens, and/or meat rabbit production. This block course is appropriate for students interested in agricultural science. Students in this class will have opportunities to improve leadership, personal growth and practical skills through participation in the Fowlerville FFA Chapter.

Location: Hartland High School

1684 ENERGY TECHNOLOGY

Grades 11, 12 * 3 Credits * Career Zone: EMIT

Fulfills MMC graduation requirement toward math-related experience for students currently in their senior year. / Fulfills MMC graduation requirement toward 1.0 credit in Visual, Performing, or Applied Arts.

This year-long, two-hour career-oriented class is designed for students to learn and apply theoretical and technical knowledge of energy and electrical systems. This program was developed with DET to ensure students gain the necessary skills leading to industry certification as an electrical overhead lineman.

Location: Pinckney High School

1682 ADVANCED AUTOMOTIVE TECHNOLOGY

Grades 11, 12 * 3 Credits * Career Zone: EMIT

Course Length: One Year Course

Fulfills MMC graduation requirement toward math-related experience for students currently in their senior year. / Fulfills MMC graduation requirement toward 1.0 credit in Visual, Performing, or Applied Arts.

This is an advanced placement course that follows NATEF guidelines for instruction. Students will meet for 2 hours per day for the entire year. Approximately 95 hours are dedicated to steering and suspensions and 220 hours are dedicated to engine performance. A NATEF end of program test will be administered after each block completion. Students are encouraged to take the State of Michigan mechanics exam upon completion.

1574 COMPUTER NETWORK ENGINEERING

Grades 11, 12 * 3 Credits * Career Zone: EMIT

Course Length: One or Two Year Course

Prerequisite: Algebra I (91420)

Fulfills MMC graduation requirement toward math-related experience for students currently in their senior year. / Fulfills MMC graduation requirement toward 1.0 credit in Visual, Performing, or Applied Arts.

The first part of this class will include identifying the internal components of a computer, assembling a computer system, installing an operating system, and troubleshooting using system tools and diagnostic software. The second part of the class focuses on both the practical and conceptual skills that build the foundation for basic networking and routing. Students will be introduced to the two major models used to plan and implement networks: OSI and TCP/IP. Students will become familiar with the various network devices, network addressing schemes and the types of media used to carry data across the network. Students will learn how to implement both static routing and dynamic routing protocols. This is an authorized Cisco Networking Academy program that uses the IT Essentials curriculum and CCNA Exploration curriculum. This course prepares students for the following industry certifications: CCENT, CompTIA A+ Math Related Class

1574 ADVANCED COMPUTER NETWORK ENGINEERING

Grades 11, 12 * 3 CREDITS * Career Zone: EMIT

Course Length: One Year Course

Prerequisite: Computer Network Engineering (1574)

Fulfills MMC graduation requirement toward math-related experience for students currently in their senior year. / Fulfills MMC graduation requirement toward 1.0 credit in Visual, Performing, or Applied Arts.

The advanced computer networking course focuses on advanced networking concepts including: switching concepts used to improve redundancy, propagate VLAN information, security concepts and vulnerabilities, access control lists (ACLs) and implementation of IP addressing services for an Enterprise network. The second part of this class allows students to focus on an area of specialization in the Computer Network Engineering field. Students will choose between one of two CCNA programs in which to continue their study: CCNA Security or Health Information Networking. In addition, this class utilizes career-planning strategies specifically designed for Computer Network Engineering students and helps prepare students for a career and certification in this Zone. This is an authorized Cisco Networking Academy program that uses the IT Essentials curriculum and CCNA Exploration curriculum. This course prepares students for the following industry certifications: CCNA, CompTIA Network+ Math Related Class.

1695 ENGINEERING / ROBOTICS 1

Grade 11, 12 * 3 Credits * Career Zone: EMIT

Course Length: One or Two Year Course

Fulfills MMC graduation requirement toward math-related experience for students currently in their senior year. / Fulfills MMC graduation requirement toward 1.0 credit in Visual, Performing, or Applied Arts.

Note: This course is eligible for college credit if taken as a two-hour block class.

Academics: This course qualifies for fourth year math related credit and Visual, Performing, or Applied Arts credit.

The Engineering and Robotics program prepares students interested in *Engineering* and *Technology* focused careers to use computer software and hardware based processes to solve problems common in engineering, manufacturing and business. As a result of their learning, students will: Program different types of robots, Use computers to design and build engineering solutions, learn basic machine tool operation, Students will work in teams to design, construct, and operate an automated robotic work cell that will produce a product of their choice. This program provides a great hands-on experience for students interested in computer programming, electronics, computer aided manufacturing (CAM), material science, and machine tool operations. Articulated college credit may be available.

BUSINESS SERVICES TECHNOLOGY

1593 ACCOUNTING

Grades 10, 11, 12 * 1 Credit * Career Zone: BMMT

Fulfills the MMC graduation requirement toward math-related experience for students currently in their senior year.

Students will prepare for entry-level accounting careers by simulating working for Delgado Web Services. Emphasis is placed on computerized accounting procedures. The principles and skills presented provide an essential foundation for college-bound students and/or prepare students for entry-level accounting careers.

1597 ACCOUNTING 2

Grades 11, 12 * 1 Credit * Career Zone: BMMT

Prerequisite 1.0 credit in accounting

Fulfills the MMC graduation requirement toward math-related experience for students currently in their senior year.

This course will allow students to deepen their understanding of accounting by introducing them to Accounting for a Merchandising Business Organized as a Corporation and preparing Adjustments and Valuation for the Corporation. Additional Global Accounting Procedures will also be investigated.

510 ADVANCED WEB PAGE DESIGN

Grades 10, 11, 12 * .50 Credit * Career Zone: BMMT, AC

Prerequisite: Introduction to Web Page Design (509)

Fulfills MMC graduation requirement toward math-related experience for students currently in their senior year when taken with 509 Introduction to Web Page Design.

This class is an extension of Introduction to Web Page Design. Emphasis will be on the actual designing of web pages using the advanced features of Dreamweaver, Fireworks, and Flash. Students will become competent in areas necessary to take the WOW (World Organization of Webmasters) certification as well as Adobe Web certifications.

490 BUSINESS AND COMPUTERS

Grades 9, 10, 11, 12 * .5 Credit * Career Zone: BMMT

This introductory course is designed for all students to increase their computer competency using software that is used daily in the business world and also here at Howell School. All students and business professionals rely on their email and create documents with Microsoft Suite products or Google Apps. Students will also be introduced to webpage design, creating a game, and sharpening keyboarding skills.

540 BUSINESS LAW I

Grades 10, 11, 12 * .50 Credit

Fulfills the MMC graduation requirement toward math-related experience for students currently in their senior year.

Time to get your good clothes on, we are going to court. In this class you will learn the fundamentals of the American legal system and why every business person should have a basic understanding. Why is it sometimes businesses get sued and other times the boss ends up in jail? This class will prepare for that unfortunate day when you injure a customer or supplier purposely send you the wrong material. This course ends with a culminating mock trial, take the role of judge, a lawyer or maybe a defendant, and enjoy participating in the event and experiencing how it unfolds.

541 BUSINESS LAW II

Grades 10, 11, 12 * .50 Credit * Career Zone: BMMT

Prerequisite: Business Law I (540) and teacher approval

Fulfills MMC graduation requirement toward math-related experience for students currently in their senior year.

Welcome back, let's continue our journey with business and the law. Now that you know the difference between crimes & torts and felonies & misdemeanors, we will explore the ideas of contract law, sales laws, employment laws, property laws, money laws, insurance laws and legal requirements of setting up a business. You don't have to be heading to law school or business school to benefit from this course as it will provide you with many tools needed to be a successful citizen.

504 ENTREPRENEURSHIP

Grades 9, 10, 11, 12 * .50 Credit * Career Zone: BMMT

Entrepreneurship is a project based course which introduces you to business concepts by actually creating your own virtual small business. You will experience the potential of becoming an economically productive member of society with your own vision of what a business should look like. This course emphasizes the connections between personal motivation, succeeding in the real world and the importance of being personally and financially responsible and independent. All the business tools will be introduced but this class allows you to put them into immediate action.

511 GAMING & APPLICATION ENGINEERING I

Grades 9, 10, 11, 12 * .50 Credit * Career Zone: EMIT

Fulfills MMC graduation requirement toward 1.0 credit in Visual, Performing, or Applied Arts.

This course will introduce students to 2D game design using Scratch and creative programming/circuitry using Makey-Makey. Students can discover how to create their own sprites, write algorithms, develop storyboards and program 2D games. Critical thinking, problem solving, and teamwork are all needed to discover the aspects of programming using Scratch and Makey-Makey. This course also includes segments on safety, creative communication, careers, employability skills, and copyright laws.

512 GAMING & APPLICATION ENGINEERING II

Grades 9, 10, 11, 12 * .50 Credit * Career Zone: EMIT

Prerequisite: Gaming & Application Engineering I (511)

Fulfills MMC graduation requirement toward 1.0 credit in Visual, Performing, or Applied Arts.

In this course you will learn the concepts of JavaScript programming language and the cool functions you can use with it. Critical thinking, problem solving, and teamwork are all needed to discover the aspects of programming along with databases, AP Computer Science Programming, algorithms, drawing and animation, gaming, and interactive webpages. This course also includes programming applications, application development, needs assessment/project planning and program maintenance.

500 INTRODUCTION TO BUSINESS

Grades 9, 10, 11, 12 * .50 Credit * Career Zone: BMMT

This course is your first stop as you being your business program at HHS, it will enlighten you to all aspects of business including Marketing, Management, Accounting, Business Law, Economics, International Business, and Entrepreneurship, Finance, and essential employability skills. You will be introduced to business computer applications in order to complete business challenges ultimately preparing you for life after high school.

509 INTRODUCTION TO WEB PAGE DESIGN

Grades 9, 10, 11, 12 * .50 Credit * Career Zone: BMMT, AC

Fulfills MMC graduation requirement toward math-related experience for students currently in their senior year when taken with 510 Advanced Web Page Design. / Fulfills MMC graduation requirement toward 1.0 credit in Visual, Performing, or Applied Arts.

Learn how to develop and design a Web Page! You will practice planning, creating, formatting, and linking web pages to produce relevant sites such as personal web sites, web sites for a classroom teacher, or sites for a small business. Students will have the experience of taking some of the class instruction on-line, thus preparing them for the most current method of alternative school instruction!

1515 MARKETING AND MANAGEMENT

Grades 10, 11, 12 * 1 Credit * Career Zone: BMMT

Fulfills MMC graduation requirement toward math-related experience for students currently in their senior year.

This class acquaints students with a basic understanding of marketing and distribution. It will familiarize students with marketing principles concerning such areas as planning and development of a product, price determination, promotion, and selling. This class deals with salesmanship, which will provide students with information, and techniques that apply to all sales areas with particular emphasis on retail sales. This class must be taken before Marketing II.

1517 MARKETING II / SCHOOL STORE

Grades 11, 12 * 2 Credits * Career Zone: BMMT

This course requires an application, pick-up in the Counseling Office.

Prerequisite: C or higher in Marketing and Management (1515) and Application

Fulfills MMC graduation requirement toward math-related experience for students currently in their senior year.

The student will be exposed to additional areas of Marketing, and eventually work in and operate the school store "The Kilt Shack". There are many outside assignments. It is hoped that through the class work the students will find assignments practical and fun. You will be expected to work the school store before school as well as during lunches. This will be done on a rotation basis. Students may receive up to 16 college credits for completing both Marketing I and Marketing II through Articulation agreements with various colleges and universities.

1519 SPORTS & ENTERTAINMENT MARKETING

Grades 11, 12 * .5 Credit * Career Zone: BMMT

Prerequisite: C+ or higher in Marketing 1 course 1515

This introductory course helps students develop an understanding of sports marketing concepts and theories that apply to sports, entertainment and business. Students will learn how to organize, plan and implement special promotions of events or products. Areas covered in this course include: sports promotion, sports marketing, event planning, target marketing and segmentation, sponsorship, and event management. In this fun new class, students will get hands-on experience creating and planning events for HPS and outside opportunities.

COMPUTER SCIENCE

510 ADVANCED WEB PAGE DESIGN

Grades 10, 11, 12 * .50 Credit * Career Zone: BMMT, AC

Prerequisite: Introduction to Web Page Design (509)

Fulfills MMC graduation requirement toward math-related experience for students currently in their senior year when taken with 509 Introduction to Web Page Design.

This class is an extension of Introduction to Web Page Design. Emphasis will be on the actual designing of web pages using the advanced features of Dreamweaver, Fireworks, and Flash. Students will become competent in areas necessary to take the WOW (World Organization of Webmasters) certification as well as Adobe Web certifications.

483 AP COMPUTER SCIENCE A

Grades 10, 11, 12 * 1 Credit * Career Zone: EMIT

Prerequisite: C or higher in Algebra 1, Algebra 2, Introduction to Programming (460) or teacher approval

The major theme of this yearlong introductory course in computer science is problem solving. Using Java programming language students will learn to: design, implement, and analyze solutions to problems; use and implement commonly used algorithms and standard data structures; analyze proposed problems to develop and select appropriate algorithms and data structures; write solutions fluently in an object-oriented paradigm; read and understand programs consisting of several classes and interacting objects; understand the ethical and social implications of computer use. This course includes a minimum of 20 hours of lab time where students will write, run, test, and debug solutions in the Java programming language. Java programs will include utilizing standard Java library classes and interfaces.

486 AP COMPUTER SCIENCE PRINCIPLES

Grades 10, 11, 12 * 1 Credit * Career Zone: EMIT

Prerequisite: 1 credit in Algebra 1

Fulfills MMC graduation requirement toward math-related experience for students currently in their senior year. / Fulfills MMC graduation requirement toward 1.0 credit in Visual, Performing or Applied Arts

This course is equivalent to a first- semester introductory college computing course. Students will develop computational thinking skills vital for success across all disciplines, such as using computational tools to analyze and study data and working with large data sets to analyze, visualize, and draw conclusions from trends. The course engages students in the creative aspects of the field by allowing them to develop computational artifacts based on their interests. Students will also develop effective communication and collaboration skills by working individually and collaboratively to solve problems, and will discuss and write about the impacts these solutions could have on their community, society, and the world.

511 GAMING & APPLICATION ENGINEERING I
512 GAMING & APPLICATION ENGINEERING II

Grades 9, 10, 11, 12 * .50 Credit * Description on previous page.

460 INTRODUCTION TO PROGRAMMING

Grades 9, 10, 11, 12 * .50 Credit * Career Zone: EMIT

Prerequisite: C or higher in Algebra 1 (91420)

This course provides students an opportunity to learn about the field of computer science, including how to program using the Java language. The following topics will be studied; object-oriented programming, data types, method calls using predefined classes, selection, looping, and an introduction to graphical programming through Applets.

509 INTRODUCTION TO WEB PAGE DESIGN

Grades 10, 11, 12 * .50 Credit * Description on previous page.

ENGLISH COURSE RECOMMENDATIONS

	GENERAL	ADVANCED
9th	English 9	English 9 or Honors English 9
10th	English 10	Honors English 10
11th	English 11	Honors American Literature Advanced Composition Humanities Advanced Journalism AP English: Language & Composition AP English: Literature & Composition
12th	Senior English	

ENGLISH

Michigan Merit Curriculum (MMC) high school graduation requirements, page 1 for details

1181 ADVANCED COMPOSITION

Grades 11, 12 * 1 Credit * Career Zone: AC

Advanced Composition is a course for students with advanced skills in language arts and will prepare students for successful writing in college classes. Students cover narrative and descriptive writing, including the character sketch, analysis, comparison/contrast, argument, persuasion, research paper, paraphrasing, explaining with examples, precise writing, and technical writing.

1164 ADVANCED JOURNALISM

Grades 10, 11, 12 * 1 Credit * Career Zone: AC

This course requires an application, pick-up in the Counseling Office.
1 Credit English for Seniors
1 Credit English Elective for Juniors & Sophomores
Prerequisite: Written application from student and approval of Advanced Journalism teacher. Re-enrollment is possible.
Fulfills MMC graduation requirement toward 1.0 credit in Visual, Performing, or Applied Arts.

In producing The Main Four, HHS's monthly newspaper, students have the opportunity to inform, influence, and entertain the student body and community with news for, about, and of interest to HHS students. Students will gain practical experience in gathering news, interviewing, research, writing, editing, headline writing and photography, along with proficiency in InDesign and Photoshop applications. Students also gain social media experience with the following applications: Facebook, Twitter, and Storify. Students also gain business and advertising experience with the selling and creation of ads, and maintaining a budget to cover costs of publication. Responsibility, integrity, initiative, and ability to meet deadlines are essential. Extra time outside of class for publication is required. Students are challenged to meet professional journalism standards as well as to continue The Main Four's award-winning tradition in state competition.

11196 AP ENGLISH: LANGUAGE & COMPOSITION

Grades 11, 12 * 1 Credit * Career Zone: AC

Prerequisite: Advanced American Literature (1134), teacher recommendation

AP English: Language and Composition engages students in becoming skilled readers of prose written in a variety of rhetorical contexts and in becoming skilled writers who compose for a variety of purposes. Writing assignments and course readings will raise student awareness of the interactions among a writer's purposes, audience expectations, and subjects, as well as the way genre conventions and the resources of language contribute to effective writing.

2196 AP ENGLISH: LITERATURE & COMPOSITION

Grades 11, 12 * 1 Credit * Career Zone: AC

English Literature is designed to prepare students with advanced language skills for their college experiences. Students study a wide time-range in literature, from Arthurian legends to modernist fiction, and read in a variety of genres, from the brilliant Shakespearean drama of Hamlet to the satire of Gulliver's Travels. Also, a strong emphasis on college writing skills is provided. Types of essays include comparison/contrast, description, definition, research, and literary analysis papers in characterization, poetry, setting, mood, and others. Students learn the structural and mechanical elements of good writing, as well as the critical thinking skills of literary analysis. Oral presentations, creative writing, history of the English monarchy, and regular vocabulary study are features of this course.

91112 ENGLISH 9

Grade 9 * 1 Credit * Career Zone: AC, MMC

This course is designed to give students a foundation in reading skills, reading strategies and written expression. Students will study literature from all major genres, focusing on analysis and use of literary terms. Students will also study informational text and will be introduced to basic MLA research skills. In addition, students will gain proficiency in writing through expository and on-demand composition. Students will develop grammar, vocabulary, and group learning skills, as well as increase speaking and study skills.

92115 HONORS ENGLISH 9
Grade 9 * 1 Credit * Career Zone: AC
In addition to the 9th grade English curriculum, this course includes frequent and more demanding reading and writing assignments, research projects and independent novel study. Students will be expected to complete homework regularly as the honors class requires students to be independent and self-motivated learners. Students will also receive higher level testing and assessment over the content of the class.

1120 ENGLISH 10
Grade 10 * 1 Credit * Career Zone: AC, MMC
10th Grade English is designed to help students increase their proficiency in reading, writing, speaking and listening skills to prepare them for post-secondary education or the workplace. Instruction, practice, and assessment will focus on organization, clarity, development, analysis, presentation skills, and the fundamentals of rhetoric and writing.

2122 HONORS ENGLISH 10
Grade 10 * 1 Credit * Career Zone: AC
It is recommended for students who are considering advanced English courses for 11th and 12th grades. This class is designed to help students increase their proficiency in reading, writing, speaking and listening skills. Instruction, self-assessment and practice will focus on organization, clarity, development, analysis, presentation skills, and advanced rhetoric and writing. Students will study fiction and non-fiction texts to strengthen their analytical skills. Students who successfully complete Honors 10th Grade English are prepared to enroll in Honors and/or AP Language Arts classes.

1130 ENGLISH 11
Grade 11 * 1 Credit * Career Zone: AC, MMC
The class will continue to build a solid foundation of knowledge, skills, and strategies that will be applied and extended as students read and analyze various classic and informational texts. Students will be provided the opportunity to develop their writing skills through a mix of writing assignments.

1183 SENIOR ENGLISH
Grade 12 * 1 Credit * Career Zone: AC, MMC
Senior English is a yearlong comprehensive English course focusing on the practice and mastery of reading, writing and speaking. Students will study rhetorical skills, in part, through reading fictional literature among multiple genres and through formal research. Students will gain experience collecting scholarly research, utilizing persuasive appeals, writing an APA formatted problem/solution essay and creating and presenting a formal presentation to complete their Senior Exit Project. Other writing topics will include college/scholarship essay, analysis, resume, cover letter, reflection, persuasion and research.

11134 HONORS AMERICAN LITERATURE
Grades 11, 12 * 1 Credit * Career Zone: AC
This course is designed for the student planning on pursuing a college degree. Emphasis is placed on written and oral rhetorical analysis of genres and trends in American literature from the seventeenth century to present. Students will be provided the opportunity to develop their writing skills through various writing assignments including a literary analysis research paper. This class should not be taken if student has already taken English 11.

1170 HUMANITIES
Grades 11, 12 * 1 Credit * Career Zone: AC
Humanities provides college-preparatory experience for students with advanced skills in language arts through the study of the relationship between the culture and the arts of Western civilization. History, literature, fine arts, philosophy, and music from ancient times to the present are explored and compared with emphasis on both oral and written analysis. Performance assessments and presentations are required.

ENGLISH ELECTIVES

The following courses are offered as English Elective courses. They <u>may not</u> be used to fulfill the 4 credit English Requirements.

1152 ADVANCED DRAMA
Grades 11, 12 * 1 Credit * Career Zone: AC
AUDITION REQUIRED - SEE DRAMA TEACHER FOR DETAILS
Fulfills MMC graduation requirement toward 1.0 credit in Visual, Performing, or Applied Arts.
Advanced Drama provides the opportunity for advanced level drama students to further refine the following: acting styles, dialects, and character analysis. Acting classifications, auditioning for musicals and theatre, voice, preparing monologues, scenes, play direction, play production, pantomime, and choreography will also be studied. Strong time management skills and self discipline is required as extra time outside of class is required.

184 CREATIVE WRITING
Grades 9, 10, 11, 12 * .50 Credit * Career Zone: AC
Creative Writing is wholly focused on imagination in writing. Designed for students who love to write, the course includes short story, and drama writing. Creative Writing breaks down the semester into units on figurative language, setting, characterization, and plot. Students will be exposed to fiction, non-fiction, sit-coms, mystery, and elements of file. A wide range of creative activities are incorporated, and participation in small group critique sessions is essential.

124 DEBATE
Grades 10, 11, 12 * .50 Credit * Career Zone: HUS, AC
Prerequisite: 1 year of English credit (similar to science general electives)
This course is for the more advanced student who already understands research skills and is an avid reader of political and current-event issues. Students develop critical thinking and analytical skills along with logic and impromptu speaking techniques to defend opposing sides of social issues. All students must be aware that attendance is an active component in grading. Along with attendance, this class is a speaking focused class, students are graded on speaking in front of an audience.

150 DRAMA I
Grades 9, 10, 11, 12 * .50 CREDIT * Career Zone: AC
Fulfills MMC graduation requirement toward 1.0 credit in Visual, Performing, or Applied Arts.
Drama I provides the opportunity to study and develop skill in improvisation, observation, concentration, character analysis, dramatic criticism, voice and acting, stage movement, play production, and theatre history.

151 DRAMA II
Grades 10, 11, 12 * .50 Credit * Career Zone: AC
Prerequisite: Drama I (150)
Fulfills MMC graduation requirement toward 1.0 credit in Visual, Performing, or Applied Arts.
Drama II provides the opportunity to study and develop skill in scenery construction, costuming, make-up, directing, lighting, and publicity.

153 DRAMA AS LITERATURE

Grades 11, 12 * .50 Credit * Career Zone: AC

Drama as Literature provides students the opportunity to read various types of plays, from Shakespeare through modern works. Both alone and in groups, students analyze, compare, and respond to a wide range of dramatic literature. Writing, speaking, researching and cooperative learning activities are included. (Note: This is NOT an acting or play performance class.)

154 POETRY

Grades 10, 11, 12 * .50 Credit * Career Zone: AC

Prerequisite: 1 year of English credit (similar to science general electives)

This course is designed as a full immersion study of the genre of poetry. Students will study a complete range of the world's poets, from ancient and traditional to modern and experimental. Students will learn techniques of poetry analysis displayed through essay writing and oral presentations. An academic research project will be conducted by each student, revolving around the study of one prominent poet. The creative component of the class includes regular student poetry writing based upon studied techniques and models. Students will individually create and publish their own chapbooks, as well as participate in a class publication. A significant goal of the class is to increase students' general sensitivity to the subtleties and power of language.

157 DYSTOPIAN LITERATURE

Grades 9, 10, 11, 12 * .50 CREDIT * Career Zone: AC

Dystopian Literature focuses on modern literature that offers a vision of the future by challenging readers to think differently about current social, environmental, and political climates. This course includes a study of major themes--surveillance, conformity, reliance on technology, rebellion, etc. This class may include the reading and/or analysis of short stories, poetry, podcasts, non-fiction articles, current events, and film as well as novels. The course will begin with a whole group study of Dystopian Literature and will evolve into small group and possibly individual exploration of different elements of the genre: Technological Control, Environmental Destruction, Loss of Individualism, Governmental Control, and Survival. This class is for EVERYONE! Link to Preview Novel Choices for Dystopian Literature

158 POPULAR LITERATURE

Grades 9, 10, 11, 12 * .50 CREDIT * Career Zone: AC

This class focuses on literature chosen by the student to read. This course is a student centered course using the literature circle model to provide students not only with choices in what they read, but choices in how they respond to the reading and how they demonstrate their learning. The course will begin with a whole group study of a short piece of fiction and will quickly evolve into small group exploration of different novels chosen by the student. This class is for EVERYONE!

160 JOURNALISTIC WRITING

Grades 9, 10, 11 * .50 Credit * Career Zone: AC

Journalistic writing provides students the opportunity to practice and develop writing, speaking and listening skills, editing/revising skills and decision-making skills by focusing on events, personalities, and issues in the school, community and larger world. They learn how to find sources, interview, report and research and how to distinguish between fact and opinion through the following experiences: writing straight news stories, feature stories, editorials, opinion columns, sports and critical reviews. Students learn the art of design for page layout. Students learn the responsibilities that are inherent in First Amendment freedoms, as well as they professional ethical standards of journalism.

166 LITERARY EDITING & PUBLISHING

Grades 10, 11, 12 * 1 Credit * Career Zone: AC

Prerequisite: Creative Writing credit and Application

This course will provide practical experience in literary publishing through the work on the Howell High School's literary magazine. Students will solicit and evaluate work for publication, and then will gain practical experience in editing, layout, and production of the journal, as well as in publicizing and promoting the finished product. Introduction to the larger literary market, and instruction in preparing creative work for submission and publication will be discussed also.

188 FANTASY & SCIENCE FICTION

Grades 10, 11, 12 * .50 Credit * Career Zone: AC

Prerequisite: 1 year of English credit (similar to science general electives)

Fantasy/Science Fiction focuses on the English standards of reading, writing, listening and speaking and an analysis of language and author's word choice/purpose. The fantasy portion of the class includes an author study culminating in student presentations. This unit includes a study of major themes (heroism; good vs. evil; magic; other worlds) of the fantasy genre. Science fiction, a subgenre of fantasy, will be studied as well. This unit includes the reading and analysis of short stories as well as novels. Book talks and collaborative study of the genre will be a focus of this portion of the class. The following topics may be studied as part of this genre: individual vs. society/survival; technological responsibility; alien invasion and the universe; artificial intelligence; genetics/technology. This class is for fans of fantasy and science fiction books, films and television shows.

192 PROFESSIONAL AND NARRATIVE WRITING

Grade 12 * .50 Credit * Career Zone: AC

This one semester course will allow time and resources for seniors to research and write scholarship essays or stories to earn money for college. Students will be given basic scholarship writing tips, along with information on how to research for scholarships pertaining to the college they are applying to or the course of study they plan to pursue. Students will also have time to collaborate and combine resource information to help streamline the application process. Students will also be able to provide feedback to fellow students' writing, and to revise and edit each other's writing.

1940 SOCIAL MEDIA

Grades 10, 11, 12 * 1 Credit * Career Zone: AC

This course requires an application, pick-up in the Counseling Office.
1 English Elective credit for Juniors & Sophomores
Prerequisite: Written application from student and approval of Advanced Journalism teacher. Re-enrollment is possible.
Fulfills MMC graduation requirement toward 1.0 credit in Visual, Performing, or Applied Arts.

This advanced class will explore and promote all levels of Howell Public Schools through social media, including web based and mobile technologies (Facebook, Twitter, etc.). Students will use 21st century skills, critical thinking, ethical decisions, and collaboration to understand how social media is changing the way we define a community. As citizen journalists, students will use social media tools to connect Howell Public Schools events and information to their audience in new and exciting ways. Selection of participating students in this class will be through an application and interview process.

1162 YEARBOOK JOURNALISM

Grades 10, 11, 12 * 1 Credit * Career Zone: AC

This course requires an application, pick-up in the Counseling Office.

Prerequisite: Written application from student and written recommendation of English or business education teacher.

Fulfills MMC graduation requirement toward 1.0 credit in Visual, Performing, or Applied Arts.

Yearbook Journalism provides the opportunity to use writing, speaking and marketing skills while producing the school yearbook, The Torch. Skill in copy writing, editing, salesmanship, interviewing techniques, and how to schedule time productively is developed through hands-on practice while producing the yearbook. Extra time outside of class is required.

90988 MODERN MUSIC APPRECIATION

Grade 9 * .50 Credit * Career Zone: AC

This course introduces students to music by allowing them to learn about and explore modern music through listening, viewing and reading. Students will explore and conduct research into the history of modern music from an analytical standpoint, as well as gain a foundation of instrumentation and genre studies. Through their practice of studies, students will be able to make connections between historical events/movements and music as a product of the times. Students will focus on and develop their reading, writing, and researching skills through evaluation and analysis of informational and narrative texts (including lyrics and essays).

FAMILY AND CONSUMER SCIENCES

721 CHILD DEVELOPMENT AND PSYCHOLOGY

Grades 9, 10, 11, 12 * .50 Credit * Career Zone: HUS, HES, AC

This course focuses on the development of children from conception to age six. Students will explore developmental theories as they pertain to effective parenting strategies, the growth and development of the whole child (physical, emotional, moral, social, intellectual), and the importance of childhood as it relates to adulthood. Students participate in a parenting simulation and may have the opportunity to observe and interact with infants, toddlers, and preschool aged children. This course is a prerequisite for Early Childhood Education and recommended for Education Careers. This course is helpful for individuals interested in Psychology, Sociology, and working with children.

732 CAREER EXPLORATION

Grades 9, 10, 11 * .50 Credit * Career Zone: **AC, BMMT, EMIT, HES, HUS, NRA**

This course was designed to assist with exploring careers and developing skills necessary to make meaningful decisions about their career choice. Students will be made aware there are many factors to consider before selecting a suitable career. This course will assist students in assessing personal strengths and weaknesses as they relate to career decisions and aid in developing strategies to make an effective transition from school to work. The student will develop transferable job skills in the course that are generic to all occupations. DECISIONS REQUIRE ACTION. Introduces students to concepts and practices to successfully manage their personal finances. Students who take charge of their finances are better prepared to invest in themselves and cope with the financial ups and down life will bring.

1775 CULINARY ARTS & HOSPITALITY 1

Grades 11, 12 * 2 Credits * Career Zone: BMMT

Strongly Recommended: Nutrition and Culinary Exploration 1 (710) and Nutrition and Culinary Exploration II (711)

Fulfills MMC graduation requirement toward math-related experience for students currently in their senior year. / Fulfills MMC graduation requirement toward 1.0 credit in Visual, Performing, or Applied Arts.

The Culinary Arts and Restaurant Management program at Howell High School is a class available for any juniors or seniors interested in food, cooking, baking, pastries, restaurant operations, management skills, and/or the food industry in general. Learn about the exciting and addicting environment of the restaurant business in the student-run cafe: The Highlander Restaurant. Students will also have the opportunity to participate in several competitions, both in class and out of class - most specifically the ProStart Competition which is a nationally recognized competitive opportunity. This class is a prerequisite to Culinary Arts and Restaurant Management 2.

1776 CULINARY ARTS & HOSPITALITY 2

Grade 12 * 2 Credits * Career Zone: BMMT

Prerequisite: Culinary Arts & Hospitality 1(1775)

Fulfills MMC graduation requirement toward math-related experience for students currently in their senior year. / Fulfills MMC graduation requirement toward 1.0 credit in Visual, Performing, or Applied Arts.

Culinary Arts and Restaurant Management 2 is the second installment of the culinary program at Howell High School. In this class, students will have increased responsibilities and more advanced and exciting opportunities to excel in the food industry. Some of the many opportunities available are management roles, not only within the restaurant but also event management and creative design duties; menu planning, creating recipes, and ServSafe and ProStart certifications (which are nationally recognized accreditation), along with internship

opportunities in the local restaurant industry. This class will help to provide students with a smooth transition into their college culinary experience, and the professional industry as well.

1780 EARLY CHILDHOOD EDUCATION I AND II

Grades 11, 12 * 2 Credits * Career Zone: HUS

Prerequisite: Education and Training Career Pathways and instructor/counselor determination of student's potential for success.

Recommended: Child Development and Psychology (721), Psychology (254)

Fulfills MMC graduation requirement toward math-related experience for students currently in their senior year. / Fulfills MMC graduation requirement toward .5 credit in Visual, Performing, or Applied Arts.

This class is for students who are preparing for a career in education working with young children! Student operated on-site preschool program and elementary classrooms provide hands-on learning experiences. Students will be introduced to occupations of preschool and elementary teacher, childcare provider, therapist, special education teacher plus many more. Students will understand and apply communication and collaboration skills, classroom management techniques and strategies, and employ fundamental knowledge of educational philosophies to enhance learner achievement. A secondary goal of the program is to develop future community leaders who will become civic advocates for public education.

Second year students' will work toward the National Child Development Associate Certificate (CDA).

***College credit is available through articulation and/or direct credit with Ferris State University, Western Michigan University, Saginaw Valley, Oakland University, Central Michigan University, Baker College and possible others. ***

1793 HEALTH OCCUPATIONS: EMERGENCY MEDICAL TRAINING (EMT)

Grade 12 * 2 Credits * Career Zone: EMIT, HES

Recommended Prerequisite: C or higher in Health Occupations I (1790), or Anatomy (1324) concurrently with, or Anatomy (1324) prior to EMT.

Fulfills MMC graduation requirement toward 1.0 credit in Visual, Performing, or Applied Arts.

This year-long program prepares students for basic Emergency Medical Technician certification through a rigorous hands-on approach to first aid and lifesaving techniques. The course delivery includes lectures, discussions, group work, and extensive practice with simulators and colleagues. Successful students will qualify for First Responder and CPR certifications as well as the National Registry of Emergency Medical Technician examination (taken after the age of 18 and required for licensure). Attendance at sessions outside of normal school hours will be required in order to meet training objectives. This course is available for Seniors who: are able to show proof of immunization status that is up to date, are willing to receive industry required immunizations, are able to pass drug tests and background checks necessary for community-based practical experiences. AND meet one of the following criteria: successful completion of Health Occupations I and recommendation by the instructor, active participation in a Junior Firefighter or Explorer program focusing on Emergency Services as evidenced by group leader recommendation, successful completion of a high school Anatomy and Physiology course and strong interest in health careers, medicine, or emergency service career areas plus recommendation by teachers or counselors. College credit for this course may be available.

1771 EDUCATIONAL CAREERS I AND II

Grades 11, 12 * 2 Credits * Career Zone: HUS

Prerequisite: Education and Training Career Pathways and instructor/counselor determination of student's potential for success.

Recommended: Child Development and Psychology (721), Psychology (254)

Fulfills MMC graduation requirement toward math-related experience for students currently in their senior year. / Fulfills MMC graduation requirement toward .5 credit in Visual, Performing, or Applied Arts.

Education Careers is an innovative year-long, activity-based curriculum for college bound high school juniors and seniors that are considering a career in Education. As an intern you will get to experience the classroom from a teacher's perspective. Students will work with an instructor to learn about proper classroom pedagogy including multiple intelligence, diversity, learning styles, lesson planning and delivery, discipline, classroom management and many other topic areas. Interns will assist a mentor teacher for hands-on application in their local Elementary or Middle School classroom several times a week for true authentic assessment. A secondary goal of the program is to develop future community leaders who will become civic advocates for public education.

Second year students will prepare for their Parapro Exam (ETS)

***College credit is available through articulation and/or direct credit with Western Michigan University, Saginaw Valley, Oakland University, Central Michigan University, Ferris State, Baker College and possible others. ***

728 FAMILY & RELATIONSHIPS

Grades 11, 12 * .50 Credit * Career Zone: HUS

Fulfills MMC graduation requirement toward 1.0 credit in Visual, Performing, or Applied Arts.

This course is designed to help students understand the nature, function, and significance of human relations involving individuals and families. The curriculum will help prepare students to evaluate, coordinate, and function in multiple adult roles of day-to-day living and working throughout the life cycle. Students will develop an individual sense of well-being to become contributing members of society as a family member, worker, nurturer, consumer, citizen, and life-long learner.

720 HEALTH EDUCATION

Grades 9, 10, 11, 12 * .50 Credit * Career Zone: HES, AC, HUS, NRA

A scheduled parent meeting to review course content is held in the fall and open to all parents in first and second semester health education courses.

This course is to increase awareness and knowledge of today's most critical health issues. It develops wise decision-making skills by exploring health related topics such as health skills, mental and emotional health, nutrition, healthy relationships, reproductive health, tobacco, alcohol, and other addictions. Upon completion of the course, you will have the necessary skills to apply throughout your lifetime in order to maintain a healthy lifestyle and make informed health decisions.

1790 HEALTH OCCUPATIONS FIRST YEAR PROGRAM:

Grades 11, 12 * 2 credits * Career Pathway: HES

Recommended Prerequisites: Algebra I (C or better)

Recommended Corequisites for incoming 11th graders: Anatomy and Chemistry

Prerequisites or Corequisites for incoming 12th graders: Anatomy

This class is designed to prepare students for successful entry into the world of healthcare. The knowledge and competencies established in the program are considered essential to many job titles in the health care industry. Students enrolled in this program will learn basic medical terminology and medical abbreviations, entry level skills to work in a health care system, Basic Life Support (CPR) certification, First Aid certification, Bloodborne Pathogen training, HIPAA regulations, safety practices, teamwork, leadership, job seeking skills and development of a portfolio. These skills are applied in a variety of clinical settings, including Saint Joseph Mercy Hospital, Medilodge facilities, outpatient physical therapy, veterinary clinics, athletic training, doctor and dental offices. Uniforms and white clinical shoes are required for clinical attire. TB testing and immunizations are required for students to participate in clinical experiences. Second year certification programs are available for Nurse's Aide (CNA) and EMT. Please see the second year course descriptions for additional information.

1798 HEALTH OCCUPATIONS II – CERTIFIED NURSING ASSISTANT (CNA)

Grade 12 * 1 Credit * Career Zone: HES

Prerequisite: Credit in Health Occupations I (1790), teacher recommendation, application and interview

Fulfills MMC graduation requirement toward 1.0 credit in Visual, Performing, or Applied Arts.

This course provides the student with the knowledge and clinical experience to earn a Certified Nursing Assistant state certificate. Students must provide their own transportation to clinical rotations and some Saturday classes are required. This course will occur only in semester 2 as a 2-hour block hours 0 and 1.

731 HOSPITALITY AND TOURISM

Grades 10, 11, 12 * .50 Credit * Career Zone: HUS, AC

The hospitality and tourism industry maintains the largest national employment base in the private sector. The Hospitality and Tourism class will provide an overview of the current hospitality and tourism industry. Hospitality and Tourism introduces students to an industry that encompasses lodging, travel and tourism, recreation, and food/beverage operations. They learn about traveler motivation and consumer needs and how these factors affect current offerings in the lodging, food and beverage, travel, tourism, and recreation segments. Finally, students learn the basics of selling and marketing in tourism. Students will design a theme park to encompass all areas of Hospitality and Tourism. This is a project-based class.

730 INTERIOR DESIGN

Grades 11, 12 * .50 CREDIT * Career Zone: AC, HUS

Fulfills MMC graduation requirement toward 1.0 credit in Visual, Performing, or Applied Arts.

This course investigates the process of design from the perspective of an interior designer. Throughout this course you will be expected to think like a designer. This course is designed for students desiring to learn the various skills necessary to select, plan, arrange and decorate living space to fulfill needs and desires according to income, environment, and family living styles. Students will gain an understanding of the elements and principles of design. Students will learn to make appropriate selections of colors, fabric, furnishings, lighting, and furniture. Students will develop skills in architectural drafting and space planning. Students will prepare designs and a presentation board for a client's home. This is a computer-based class. This course is project-based.

710 NUTRITION AND CULINARY EXPLORATION I

GRADES 10, 11, 12 * .50 CREDIT * Career Zone: HES, HUS

Fulfills MMC graduation requirement toward 1.0 credit in Visual, Performing, or Applied Arts.

This course focuses on safe food handling, safe kitchen practices, proper measuring techniques, various food preparation techniques, and proper use of appliances and utensils. Practicing cooking skills, recognizing nutritional choices and applying consumer management topics are highlighted.

711 NUTRITION AND CULINARY EXPLORATION II

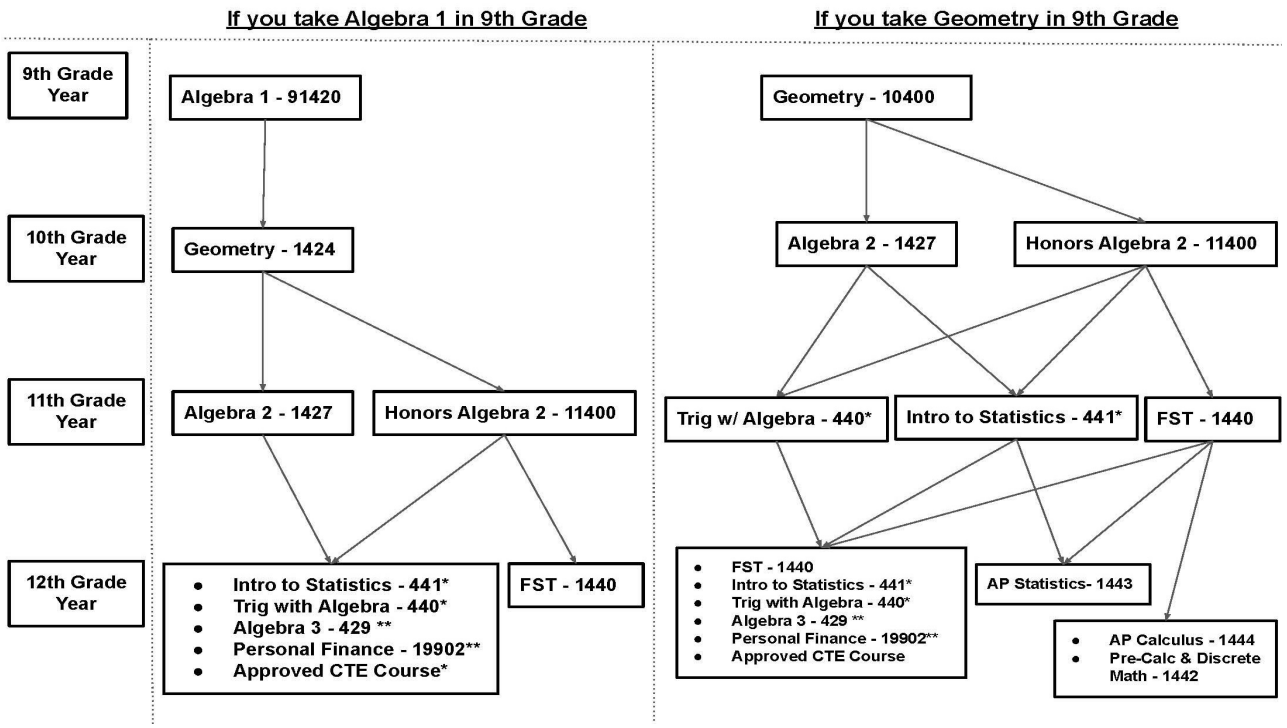
GRADES 10, 11, 12 * .50 CREDIT * Career Zone: HES, HUS

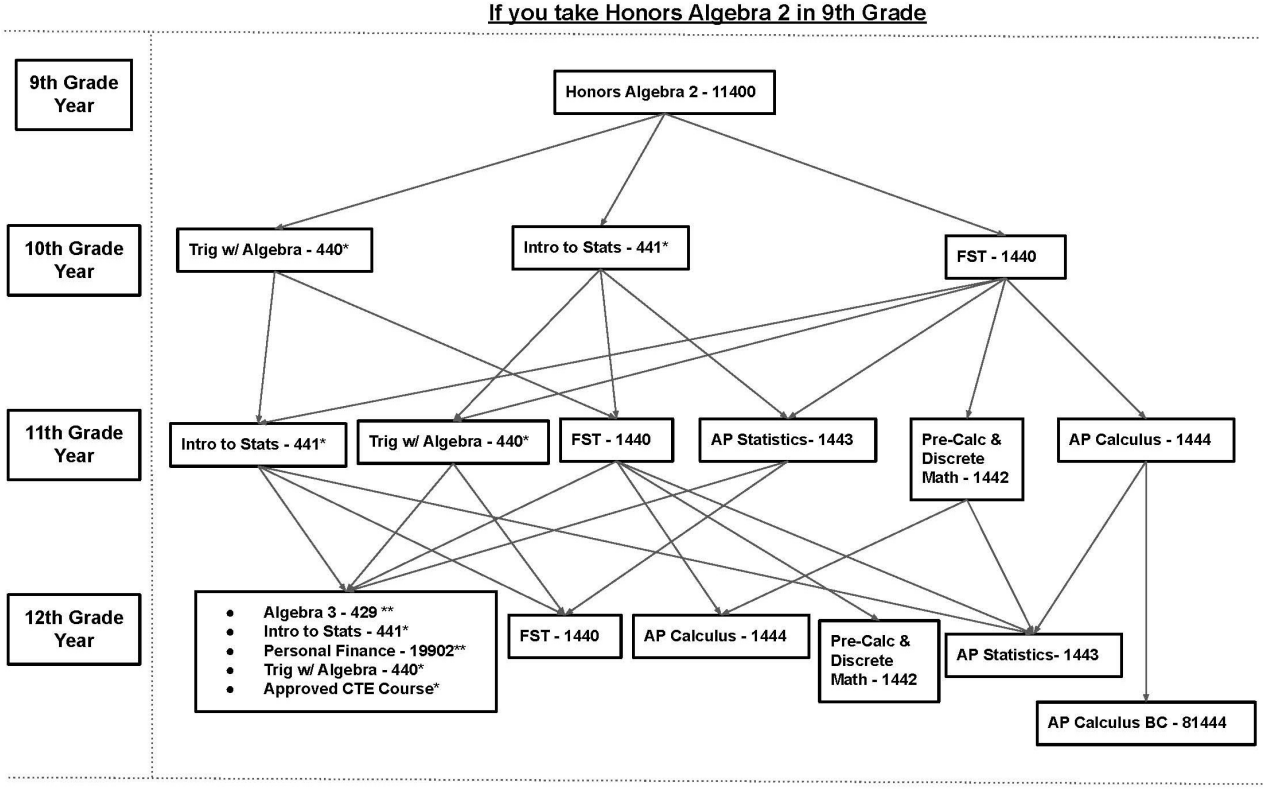
Prerequisite: Nutrition and Culinary Exploration I (710)

Fulfills MMC graduation requirement toward 1.0 credit in Visual, Performing, or Applied Arts.

This course deals with menu development and the relationship of cooking methods to appearance, texture, shape, flavor and nutritional value of food. The preceding skills are utilized to plan a variety of entrees; such as soups, casseroles, salads, desserts, etc. in order to practice meal planning skills. Students will complete a culinary project which focuses on a variety of recipes and topics.

MATH CLASS FLOW CHART





* - year long course, 1 credit
**- semester course, 0.5 credits

MATHEMATICS

Michigan Merit Curriculum (MMC) high school graduation requirements, page 1 for details

91420 ALGEBRA 1

Grade 9 * 1 Credit * Career Zone: MMC

This course covers the basic operations of polynomials with the use of unknowns. It also covers topics in factoring, graphing, and problem-solving techniques. In addition, it advances through inequalities, functions, systems of open sentences, and quadratic equations. A calculator is required; TI-30XIIS is recommended. This class is a Prerequisite for Geometry (1424).

1427 ALGEBRA 2

Grade 10, 11, 12 * 1 Credit * Career Zone: MMC

Prerequisite: Geometry (1424)

This course reviews and covers in greater depth the concepts from Algebra 1. In addition, it covers complex numbers, trigonometry, logarithmic functions, and one variable statistics. A scientific calculator is required for students; TI-30XIIS is recommended. This course is a Prerequisite for Probability / Statistics (436) class.

429 ALGEBRA 3

Grade 12 * .50 Credit * Career Zone: BMMT, HUS, NRA, AC, HES, HUS, AC

Prerequisite: Algebra 2 (1427)

This class is an extension of Algebra 2 beginning with a brief review of solving linear equations and inequalities. The focus of the class is placed on real-life applications using linear, rational, radical, and quadratic functions. Also emphasized are polynomials, equations, factoring techniques, rational expressions, rational exponents, and complex numbers. The goal of this class is to prepare students for a college level math course by providing an extensive review of algebra topics at a college level pace. A scientific calculator is required.

1444 AP CALCULUS AB

Grade 11, 12 * 1 Credit * Career Zone: EMIT, HES

Prerequisite: B+ or higher in Functions, Statistics and Trigonometry (1440) and successful completion of Pre-Calculus and Discrete Mathematics (1442)

This course provides the opportunity for students with advanced skills in mathematics to take college calculus in high school. Functions, limits, application of derivatives and integrations are studied. Students are prepared for the College Board's Advanced Placement Calculus Examination in May.

81444 AP CALCULUS BC

Grade 12 * 1 Credit * Career Zone: EMIT, HS

Prerequisite: B- or higher in AP Calculus AB (1444)

This course extends the content learned in Calc AB to different types of equations and introduces the topic of sequences and series. It covers topics in differential and integral calculus, including concepts and skills of limits, derivatives, definite integrals, the Fundamental Theorem of Calculus, and series.

1443 AP STATISTICS

Grades 11, 12 * 1 Credit * Career Zone: EMT, HES, BMMT, NRA

Prerequisite: B or higher in Introduction to Probability and Statistics (441); C+ or higher in Functions, Statistics and Trigonometry (1440)

Students taking this course need to have above average reading comprehension skills. This course provides the opportunity for students to take a college level statistics class in high school. The course covers the main areas of data exploration, sampling and experimentation, anticipating patterns, and statistical inference. A graphing calculator is required. It is highly recommended that the calculator be a TI-83 or 84 Students will be prepared to take the advanced placement exam in May.

1440 FUNCTIONS, STATISTICS AND TRIGONOMETRY

Grades 10, 11, 12 * 1 Credit * Career Zone: EMIT, HES, BMMT, NRA

Prerequisite: C or better in Honors Algebra 2 (11400); B or higher in Trigonometry with Algebra (440) OR Introduction to Probability & Statistics (441)

This course emphasizes applications of linear, quadratic, exponential, logarithmic, and trigonometric functions. It also covers the statistics needed for most college programs. A graphing calculator is required. This calculator should be a TI-83, TI-83+, TI-84, or TI-84+. This class proceeds at an honors pace.

1424 GEOMETRY

Grades 9, 10, 11, 12 * 1 Credit * Career Zone: MMC

Prerequisite: Algebra 1 (91420)

This Geometry course is for the college-bound student. It is designed to develop logical thinking as it pertains to problem solving and mathematical proofs. Definitions and postulates are presented and theorems are developed which lead to a logical mathematical system. In addition, the class studies the use and applications of Trigonometry and Transformations. During this class, algebra skills are expanded. Students are expected to have a ruler, compass, protractor and scientific calculator; TI-30XIIS is recommended. This class is a Prerequisite for Algebra 2 (1427).

11400 HONORS ALGEBRA 2

Grades 9, 10, 11 * 1 Credit * Career Zone: MMC

Prerequisite: A in Algebra 1 (91420) and Geometry (1424

The honors course of algebra 2 is designed to offer a more rigorous curriculum for students who have proven student achievement meeting the course entry criteria. This course is built on the same state Standards as its core course counter-part, plus additional state Standards. Coursework moves faster, spending less time on each Standard. Besides meeting the course entry criteria, students are expected to engage in a high degree of independent learning, self-directed learning and increased homework load. A graphing calculator is required. TI-83 or higher is recommended.

441 INTRODUCTION TO PROBABILITY & STATISTICS

Grade 10, 11, 12 * 1 Credit * Career Zone: AC, BMMT, EMIT, HES, HUS, NRA

Prerequisite: 1.0 credit in Algebra 2 (1427)

This course introduces topics in probability and statistics. Specific focus is given to measures of center and spread, histograms and box plots, and probability distributions including normal and binomial distributions. Additional topics include theoretical and conditional probability, correlation and regression, and experimental design. This course gives a broad base of statistics that can be applied to any course of college study and can be used as a prerequisite for AP Statistics in a subsequent year.

2020 MATH LAB

Grades 10, 11, 12 * .50 CREDIT * Career Zone: EMIT, HE, HUS, NRA, BSST

This course provides support for students who struggle with math concepts and is highly recommended for students who earned below a B in Algebra 2 (1427) and are interested in taking any of the following courses: Algebra 3 (429), Introduction to Probability and Statistics (441), Trigonometry with Algebra (440).

19902 PERSONAL FINANCE
Grade 12 * .50 Credit * Career Zone: MMC
This course will inform students how individual choices directly influence occupational goals and future earnings potential. Real world topics covered will include income, money management, spending and credit, as well as saving and investing. Students will design personal and household budgets utilizing checking and saving accounts, gain knowledge in finance, debt and credit management, and evaluate and understand insurance and taxes. This course will provide a foundational understanding for making informed personal financial decisions leading to financial independence.

1442 PRECALCULUS AND DISCRETE MATHEMATICS
Grades 11, 12 * 1 Credit * Career Zone: EMIT, HES, NRA
Prerequisite: Successful completion of Functions, Statistics and Trigonometry (1440), or Teacher Recommendation
Logic, induction, and probabilities are added to the continuing study of functions, trigonometry, graphs and equations. One objective of this course is the preparation for calculus including introduction of derivatives. The course also prepares students for other college level math, statistics, and logic courses.

440 TRIGONOMETRY WITH ALGEBRA
Grades 10, 11, 12 * 1 Credit * Career Zone: BMMT, EMIT, HES, HUS, NRA
Prerequisite: 1.0 credit in Algebra 2
This course is for students who wish to continue math beyond Algebra II but need further instruction in Trigonometry and Functions prior to Pre-Calculus/FST. This course investigates further applications of the trigonometric functions and other algebraic function families presented in Algebra II and applies them further, including real world applications.

NON DEPARTMENTAL

1093 CO-OP 1 HR
Grades 11, 12 * 1 Credit
1095 CO-OP 2 HR
Grades 11, 12 * 2 Credits
2093 CO-OP 3 HR
Grades 11, 12 * 3 Credits
Qualifications: Students must complete an application packet.

10082 LEADERSHIP / ACTIVITIES
Grades 11, 12 * 1 Credit * Career Zone: AC, BMMT, EMIT, HES, HUS, NRA
Prerequisite: Instructor permission. This course requires an application, pick-up in the Counseling Office.
Leadership class will give any interested student the opportunity to examine and practice the skills needed to be an effective leader. The class provides time and exercises to examine these skills as they relate to each individual. This class will help each student: identify leadership styles, practice group- processing skills, develop an improved self-image about their own leadership ability, improve their communication skills, help them learn the importance of setting both long and short term goals, define and practice appropriate problem solving techniques and commit to a time of community service outside of school to put all of these objectives to use. This class is open to all students and may be repeated for credit with instructor permission.

1112 STUDY STRATEGIES FOR AP CLASSES
Grades 10, 11, 12 * 1 Credit * Career Zone: AC, BMMT, EMIT, HES, HUS, NRA
Prerequisite: Enrollment in 2 or more advanced placement classes.
In this course, students will learn a little about their own personalities and learning styles, which, when known, lead to more effective and efficient studying. Students will learn about good study habits, setting goals, using time wisely, tips for writing responses to various advanced placement prompts, and skills to become better learners, test-takers and note-takers. Students will have the opportunity to determine what it will take to succeed in an advanced placement class. Furthermore, they will have the opportunity to work collaboratively with other advanced placement students in an effort to master course content and prepare for advanced placement exams. Students will earn elective credit, receiving a P or NM as a semester grade.

951 TIES PEER TO PEER
Grades 11, 12 * 1 Credit
This course requires an application, pick-up in the Counseling Office.
Students enrolled in this class will develop mentoring skills to assist students with special needs, primarily autism. Mentor students will accompany a student with special needs to his/her class and model appropriate social, behavior, and academic skills. Mentor students will participate in training sessions throughout the school year, as well as complete journal entries, quarterly assignments, and an end of the semester project. All students interested in making HHS an inclusive community are encouraged to enroll in this class, as well as students who are interested in careers education and the medical field.

952 TED-ED
Grades 9, 10, 11, 12 * .50 Credit
The course will follow the TEDx curriculum guidelines. Students will organize, plan, lead and participate in the HPS TEDx-Ed conference.

1113 STUDY STRATEGIES FOR COLLEGE
Grades 10, 11, 12 * .50 Credit
Prerequisite: Enrollment in one or more dual enrollment classes
In this course, students will learn a little about their own personalities and learning styles, which, when known, lead to more effective and efficient studying. Students will learn about good study habits, setting goals, using time wisely, skills to become better learners, test-takers and note-takers. Students will earn elective credit, receiving a P or NM as a semester grade.

PERFORMING ARTS: DRAMA

1152 ADVANCED DRAMA
Grades 11, 12 * 1 Credit * Career Zone: AC
AUDITION REQUIRED - SEE DRAMA TEACHER FOR DETAILS
Fulfills MMC graduation requirement toward 1.0 credit in Visual, Performing, or Applied Arts.
Advanced Drama provides the opportunity for advanced level drama students to further refine the following: acting styles, dialects, and character analysis. Acting classifications, auditioning for musicals and theatre, voice, preparing monologues, scenes, play direction, play production, pantomime, and choreography will also be studied. Strong time management skills and self-discipline is required as extra time outside of class is required.

150 DRAMA I
Grades 9, 10, 11, 12 * .50 CREDIT * Career Zone: AC
Fulfills MMC graduation requirement toward 1.0 credit in Visual, Performing, or Applied Arts.
Drama I provides the opportunity to study and develop skill in improvisation, observation, concentration, character analysis, dramatic criticism, voice and acting, stage movement, play production, and theatre history.

151 DRAMA II
Grades 10, 11, 12 * .50 Credit * Career Zone: AC
Prerequisite: Drama I (150)
Fulfills MMC graduation requirement toward 1.0 credit in Visual, Performing, or Applied Arts.
Drama II provides the opportunity to study and develop skill in scenery construction, costuming, make-up, directing, lighting, and publicity.

PERFORMING ARTS: INSTRUMENTAL

1980 CONCERT BAND
Grade 9, 10, 11 * 1 Credit * Career Zone: AC
Prerequisite: Entrance by audition and/or consent of the instructor.
Fulfills MMC graduation requirement toward 1.0 credit in Visual, Performing, or Applied Arts.
This band is a performing group that contains musicians playing the following instruments: Oboe, flute, Clarinet, Bassoon, Saxophone, Trumpet, French Horn, Trumpet/cornet, Trombone, Euphonium, Tuba, String Bass, Percussion. Fundamentals and intermediate technique on the student's primary instrument along with rudimentary theory are taught along with learning the performance repertoire. Five to six after school concerts are given throughout the year (Including participation in MSBOA B&O festival in March, registering as a Class D Senior HS Band), and is part of the student's grade to participate and perform in these concerts. Students with previous band experience and/or instructor permission may participate in this class. This is open to grades 9-12 but recommended for 9-11.

1990 MARCHING BAND
Grades 9, 10, 11, 12 * .50 Credit * Career Zone: AC
Prerequisite: Entrance by audition and/or consent of the instructor.
Fulfills MMC graduation requirement toward 1.0 credit in Visual, Performing, or Applied Arts.
Class meets the hour after school 1st and 4th quarters, with extra rehearsals Monday nights. Students perform at local community activities, athletic events, and out-of-state major excursions.

987 MUSIC SEMINAR
Grades 11, 12 * .50 Credit * Career Zone: AC
Prerequisite: Teacher approval only (Level 5), Book Fee possible.
Fulfills MMC graduation requirement toward 1.0 credit in Visual, Performing, or Applied Arts.
Students have the opportunity to choose topics of interest and develop specific projects for in-depth study. Class material is based on individual interests and needs. Topics of exploration include: composition, musicology, conducting and music theory. This course offering is dependent on staff availability.

1984 PERCUSSION SECTIONALS
Grades 9, 10, 11, 12 * 1 Credit * Career Zone: AC
Prerequisite: Entrance by audition and/or consent of the instructor.
Fulfills MMC graduation requirement toward 1.0 credit in Visual, Performing, or Applied Arts.
Students in this class will build upon their current knowledge of percussion through participation in rehearsals and performances. Students will work with traditional keyboards, rudimental drumming, hand drums, drum set, orchestral percussion, and other instruments. This is not just a drum set class.

1981 SYMPHONIC BAND
GRADES 10, 11, 12 * 1 CREDIT * Career Zone: AC
Prerequisite: Entrance by audition and/or consent of the instructor.
Fulfills MMC graduation requirement toward 1.0 credit in Visual, Performing, or Applied Arts.
This ensemble is similar to Concert band, playing the same instruments and similar curriculum. The difference is that more difficult concepts and music are addressed in this class (Symphonic Band registers as an MSBOA Class B Senior HS Band). Entry into this band is by audition and/or Instructor permission only. It is highly recommended that students have several years of middle school and some high school band experience before they take this class. The class is available to grades 9-12 but is intended for 10-12.

1982 WIND ENSEMBLE
GRADES 10, 11, 12 * 1 CREDIT * Career Zone: AC
Prerequisite: Entrance by audition and/or consent of the instructor.
Fulfills MMC graduation requirement toward 1.0 credit in Visual, Performing, or Applied Arts.
This is the most advanced Concert ensemble.

1983 HIGHLANDER BAND
GRADES 11, 12 * 1 CREDIT * Career Zone: AC
Prerequisite: Complete 1 year of Concert Band, Completing an audition in the previous school year, Ability to read and play music on one of the following instruments: Flute, Oboe, Bassoon, Clarinet, Saxophone, Trumpet, F Horn, Baritone/Euphonium, Tuba, Percussion; Completing 9th grade; Permission from the instructor.
Fulfills MMC graduation requirement toward 1.0 credit in Visual, Performing, or Applied Arts.
Highlander Band is a full year instrumental music course. The group is performance based, giving four to six public concerts outside of school each year, typically occurring in the evening on school nights at the Bushey Performing Arts Center. Students will attend band festival in another location. Students are expected to learn music and rehearse literature together in a collaborative setting. Students in Highlander Band are typically in the eleventh and twelfth grades.

PERFORMING ARTS: VOCAL

1970 A CAPPELLA CHOIR
Grades 10, 11, 12 * 1 Credit * Career Zone: AC
Prerequisite: Entrance by Audition Only
Fulfills MMC graduation requirement toward 1.0 credit in Visual, Performing, or Applied Arts.
Our MOST advanced choir is open to only 10-12 grades by audition only. **LEVEL 4**
This class is designed for the musician who enjoys performance on an advanced level. Exposure to various types of choral literature with music from different periods of history as well as contemporary composition and advanced vocal technique is emphasized. Performance with this class requires a 2.0 grade point average. Therefore, any student entering the class and/or failing to maintain a 2.0 GPA should consider another course.

1971 VARSITY MEN'S CHOIR

Grades 9, 10, 11, 12 * 1 Credit * Career Zone: AC
Entry level choir with no pre-requisite or audition (Level 1)
Fulfills MMC graduation requirement toward 1.0 credit in Visual, Performing, or Applied Arts.
The Varsity Men's choir is for any male singer who desires to improve his vocal music skill. The class will deal with problems associated with the changing male voice, music reading, and the performance of a variety of choral literature exploring different styles. The men's choir also serves as a preparation for the A cappella choir audition.

1972 VARSITY WOMEN'S CHOIR

Grades 9, 10, 11, 12 * 1 Credit * Career Zone: AC
Entry level choir with no pre-requisite or audition (Level 1)
Fulfills MMC graduation requirement toward 1.0 credit in Visual, Performing, or Applied Arts.
The Varsity Women's choir is for any female voice who desires to learn good techniques in singing. Students learn musicianship through music reading and exploring a variety of choral literature. The class will focus attention on the production of good choral tone and serves as a preparation for Women's Select Choir, Women's Chorale, and the A Cappella Choir.

1976 WOMEN'S CHORALE

Grades 10, 11, 12 * 1 Credit * Career Zone: AC
Prerequisite: Intermediate to Advanced, entrance by audition only (Level 3)
Fulfills MMC graduation requirement toward 1.0 credit in Visual, Performing, or Applied Arts.
This class is designed for the female singer who desires choral literature at the advanced level. The class will explore various styles and periods of music history. Vocal skills will be developed with a focus on the more mature voice. Music reading level will range from intermediate to advanced with some exploration of the elements of music theory. This course may provide an alternative to A Cappella Choir. Performance with this class requires a 2.0 grade point average. Therefore, any student entering the class and/or failing to maintain a 2.0 GPA, should consider another course.

1974 WOMEN'S SELECT CHOIR

GRADES 9, 10, 11, 12 * 1 CREDIT * Career Zone: AC
Prerequisite: Primary to Intermediate, entrance by audition only (Level 2) *9th graders are assigned by 8th grade instructors.
Fulfills MMC graduation requirement toward 1.0 credit in Visual, Performing, or Applied Arts.
This class is for the female vocalist who wishes to continue choral training. As ensemble members, participants learn to develop good singing techniques and improve their musicianship in preparation for A Cappella Choir. Performance with this class requires a 2.0 grade point average. Therefore, any student entering the class and/or failing to maintain a 2.0 GPA should consider another course.

PHYSICAL EDUCATION

Michigan Merit Curriculum (MMC) high school graduation requirements, page 1 for details

915 AMERICAN RED CROSS LIFEGUARD TRAINING

Grades 9, 10, 11, 12 * .50 Credit each semester * Career Zone: MMC
Prerequisite: Prerequisite: Credit in Basic PE or Personal Fitness AND the age and skill prerequisites listed below.
Upon successful completion of the 33-hour American Red Cross Lifeguard Training course, participants will receive two certificates; Lifeguard Training with First Aid and CPR for the professional rescuer. The course content and activities require self-discipline and personal responsibility and will prepare candidates to prevent, recognize and respond quickly and effectively to aquatic emergencies. **Participants must meet the following age and skill Prerequisites: 1)** 15 years old by the end of class, **2)** Swim 300 yards continuously: using 100 yards of front crawl with rhythmic breathing, 100 yards of breaststroke, and the final 100 yards a combination of the two strokes, **3)** Swim front crawl or breaststroke 20 yards, surface dive 7-10 feet, retrieve a 10 lb. brick and swim 20 yards back to the starting point.

926 ATHLETIC PERFORMANCE – Semester 1 and / or
927 ATHLETIC PERFORMANCE – Semester 2

Grades 10, 11, 12 * .5 Credit each semester * Career Zone: MMC
Prerequisite: Credit in Basic PE or Personal Fitness or Health & Human Performance AND Men's Weightlifting/StrongHer or Instructor Approval
An intensive strength and conditioning class designed for the serious athlete looking to make improvements for their sport. Sport specific workouts will be emphasized along with agility, speed and conditioning. Proper warm ups, physical activity and cool down will take place on a daily basis. Physical fitness test will be done at the beginning and end of semester which may include the following: vertical jump, broad jump, bench press repetition test, pull up test, sit up test, flexibility test, grip test, speed and agility tests. (Students do not have to take Semester 1 before Semester 2 and should consult with the course instructor regarding which semester(s) is/are appropriate.)

900 BASIC PHYSICAL EDUCATION

Grades 9, 10, 11, 12 * .50 Credit each semester * Career Zone: MMC
The following physical fitness concepts are included: muscular endurance, cardiovascular endurance, body composition, strength and flexibility. The following skill-related concepts are stressed: agility, balance, coordination, power, reaction time and speed. Class structure consists of at least three days of skill related activities and two days of cardiovascular workouts. Students are expected to meet the health standards of the FitnessGram test. All students must pass the mile walk/run test in 12 minutes to receive credit. The sports used to develop skill-related concepts will include: touch football, soccer, softball, basketball, floor hockey, volleyball, and swimming.

922 HEALTH AND HUMAN PERFORMANCE

Grades 9 * 1.0 Credit * Career Zone: MMC
This year-long class combines Health and Physical Education, time will be spent in the classroom and gym. Students will combine and apply the learning in Health class with physical activities. **Topics covered in Health class are:** Healthy Foundation, Mental Health, Personality Development and Stress Management, Nutrition, Communication and Healthy Relationships, Reproductive Health, Drug Education, Non-certifiable training in First Aid, CPR, and using an AED **Activities covered in Human Performance are:** Team/Individualized Sports, Personal Fitness, Strength Training, Weight lifting basics, Aquatics, Yoga

19901 PERSONAL FITNESS

Grades 9, 10, 11, 12 * .50 Credit each semester * Career Zone: MMC

Physical fitness concepts included are: muscular endurance, cardiovascular endurance, body composition, strength, and flexibility. Skill-related concepts stressed are: coordination, balance, agility, power, reaction time and speed. Class structure consists of cardiovascular workouts and of skill related activities, including the weight room. Students are expected to meet the health standards of the FitnessGram test. All students must pass the mile walk/run test in 12 minutes to receive credit. Aerobic work is done through circuit training video tapes (ex. Tae Bo, step aerobics, dance aerobics), weight training, Pilates, stability ball, jogging and walking workouts. Students are introduced to methods of weight control and diet as it relates to their physical well-being. Volleyball, basketball, softball, tennis, soccer, swimming (depending on facility availability), yoga and badminton are some of the sport areas to be included.

925 RACKET AND NET SPORTS

Grades 9, 10, 11, 12 * .50 Credit each semester * Career Zone: MMC

Prerequisite: Credit in Basic PE or Personal Fitness

Net/Racket activity units may include tennis, volleyball, badminton, pickleball, soccer, team handball, basketball, speedminton. This course is designed to assist students in developing skills and game strategies to successfully play each of the sport activities presented with carryover value for lifelong participation. Classes will do FitnessGram testing and participate in weekly cardiovascular activities as well.

913 TEAM SPORTS

Grades 9, 10, 11, 12 * .50 Credit each semester * Career Zone: MMC

Prerequisite: Credit in Basic PE or Personal Fitness

This class builds on the knowledge and physical fitness levels gained in all Level 1 classes. Advanced skills and team concepts are stressed. The sports used to develop skill related concepts include: touch football, soccer, softball, basketball, team handball, and volleyball. Students are expected to meet the health standards of the FitnessGram test and participate in weekly cardiovascular activities as well.

908 YOGA

Grades 9, 10, 11, 12 * .50 Credit each semester * Career Zone: MMC

Prerequisite: Credit in Basic PE or Personal Fitness

In this class students will learn the skills of various different yoga techniques, breathing and Meditation. Through this class students will learn breathing techniques, basic to intermediate yoga, different equipment that can be used, as well as how to create a sequence. By the end of this class, students will be able to perform their own yoga sequences so they can continue incorporating yoga into their daily life.

919 YOGA 2

Grades 10, 11, 12 * .50 Credit each semester * Career Zone: MMC

Prerequisite: Credit in Yoga course 908

In this class students will learn the skills of various different yoga techniques, breathing and Meditation. Through this class students will learn breathing techniques, basic to intermediate yoga, different equipment that can be used, as well as how to create a sequence. By the end of this class, students will be able to perform their own yoga sequences, teach a yoga class, as well as the possibility of being certified pending availability.

MEN'S/WOMEN'S WEIGHTLIFTING

917 STRONGHER

Grade 9, 10, 11, 12 * .50 Credit each semester * Career Zone: MMC

Prerequisite: Credit in Basic PE or Personal Fitness

This class is an all-female class. It is an introduction to strength training and general physical fitness concepts. Weight room safety, repetition rules, general anatomy, and the exercises and the muscles they are working are stressed. Students will spend three days each week on strength training workouts and two days each week on cardiovascular workouts. Students are expected to meet the health standards of the FitnessGram test.

918 MEN'S WEIGHTLIFTING

Grades 9, 10, 11, 12 * .50 Credit each semester * Career Zone: MMC

Prerequisite: Credit in Basic PE or Personal Fitness

This class is an all-male class. It is an introduction to strength training and general physical fitness concepts. Weight room safety, repetition rules, general anatomy, and the exercises and the muscles they are working are stressed. Students will spend three days each week on strength training workouts and two days each week on cardiovascular workouts. Students are expected to meet the health standards of the FitnessGram test.

SCIENCE

Michigan Merit Curriculum (MMC) high school graduation requirements, page 1 for details

To fulfill the Howell High School graduation requirements for science students must successfully complete:

- 3.5 credits of science required starting with the class of 2021
- Earn credit in each category below
  - CTE course credit may be substituted for Physical and/or Earth Science credit through planning with your school Counselor.
  - The Earth Science requirement can be waived with the successful completion of 4 years of science that includes a minimum of 2 AP courses offered by the science department.

Life Science- 1 Credit

- Biology
- AP Biology

Physical Science Physics-1 Credit

- Physics
- Conceptual Physics
- AP Physics (Course dependent on which AP runs each year)

Elective Courses

- Anatomy-1.0 credit
- Organic Chemistry-1.0 credit
- Forensics-0.5 credit
- Ecology-0.5 credit
- Astronomy/Space Science-0.5 credit

Physical Science Chemistry-1 Credit

- Analytical Chemistry
- Fundamental Chemistry
- AP Chemistry

Earth Science- 0.5 Credits

- Earth Science
- AP Environmental Science (1.0 credit)

Suggested Science Pathways

Pathway #1	Pathway #2	Pathway #3
Meets HHS Graduation Requirement Trade School/World of Work	**College Bound, Non-Science Major**	**College Bound/STEM Career** *To maximize AP class offerings, students should take Analytical Chemistry in 9th or 10th grade*
Biology	Biology	Biology/AP Biology
Fundamental Chemistry	Physics or Conceptual Physics	Physics/AP Physics
Conceptual Physics	Fundamental Chemistry or	Analytical Chemistry
Earth Science	Analytical Chemistry	AP Chemistry
	Earth Science	Earth Science/AP Environmental

SCIENCE

Michigan Merit Curriculum (MMC) high school graduation requirements, page 1 for details

1350 ANALYTICAL CHEMISTRY

Grades 9*, 10, 11, 12 * 1 Credit * Career Zone: EMIT, HES, MMC

Prerequisite: Biology (91306) or Honors Biology (91300) credit and Algebra 1 (91420) or Honors Algebra 1 (91400) credit or with teacher recommendation, *open to 9th grade students with Algebra 1 credit and plan to take AP Science in 10th grade

Students planning to pursue studies in the health sciences, engineering or those planning to take AP science courses should consider this class. Students will study principles and theories of chemistry while using mathematical skills to solve problems. Students will be required to access information outside of the classroom and must be prepared daily. Students will engage in laboratory activities and group discussions. Access to technology (Google Classroom, spreadsheets, computer simulations, etc.) is required. Coverage of topics will be at a pace and depth appropriate for college-bound students and those preparing to study sciences at an advanced level. Topics include structure of atoms, arrangement of electrons, organization of the Periodic Table, bonding, gases, changes in matter, stoichiometry, rates of reactions, and acids and bases.

1324 ANATOMY

Grades 11, 12 * 1 Credit * Career Zone: HES, HUS, EMIT

Prerequisite: Biology Credit or Chemistry Credit

Human Anatomy offers students the opportunity to study the structure and functions of the human organism. The areas of concentration are actions of the major systems of the body, special organs involved in each of these systems, and the function of each of the organs. Concepts in Biology and Chemistry will also be reviewed and incorporated into this class. Dissection of the fetal pig and sheep brain is a required part of this class.

2334 AP BIOLOGY

Grades 10, 11, 12 * 2 Credits * Career Zone: HES, NRA

Prerequisite: C+ or higher in Chemistry (1328), Analytical Chemistry (1350) or teacher recommendation

Advanced Placement Biology is equivalent to the first year of college biology. The structural adaptations of plants and animals, molecular and cellular biology, genetics and evolutionary relationships are studied. Students will be prepared for the College Board's Advanced Placement Biology Examination in May. Fulfills MMC Biology requirement. May require summer work.

2330 AP CHEMISTRY

Grades 10, 11, 12 * 2 Credits * Career Zone: EMIT, HES

Prerequisite: C+ or higher in Analytical Chemistry or teacher recommendation

Advanced Placement Chemistry is equivalent to first year college chemistry. Atomic theory, chemical bonding, chemical reactions, thermodynamics, and electrochemistry are studied. Students are prepared for the College Board's Advanced Placement Chemistry Examination in May. May require summer work. Fundamental chemistry does not meet the prerequisite for this course.

81335 AP ENVIRONMENTAL SCIENCE

Grades 11, 12 * 1 Credit * Career Zone: NRA

Prerequisite: C+ or higher in Biology, C+ or higher in Chemistry or teacher recommendation

This year-long course is the equivalent of a one semester college course in environmental science that includes a laboratory and field investigation component. The goal of the course is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, to examine alternative solutions for resolving and/or preventing them, and to develop and focus their own political perspective.

2332 AP PHYSICS 1 & 2

Grades 10, 11, 12 * 1 Credit * Career Zone: EMIT, HES

Prerequisite: C+ or higher in Chemistry or teacher recommendation

Co-requisite: Functions, Statistics and Trigonometry (1440)

This course is equivalent to first year trigonometry based college physics courses covering topics that include mechanics, electricity and magnetism, thermal physics, fluid dynamics, and atomic and nuclear physics. It is designed for students who will be pursuing a college major in the area of business, law, medicine, or majors other than math and science. Students will be prepared for the advanced placement exam in May. May require summer work.

1333 AP PHYSICS (C)

Grades 11, 12 * 1 Credit * Career Zone: EMIT

Prerequisite: C+ or higher in Chemistry or teacher recommendation

Co-requisite: AP Calculus (1444)

This course is equivalent to first year college physics with calculus. Mechanics, dynamics, and momentum are studied. Students are prepared for the College Board's Advanced Placement Physics C examination. It is designed for students who will be pursuing a college major in Science, Math or Engineering. Students will be prepared for the advanced placement exam in May. May require summer work.

312 ASTRONOMY / SPACE SCIENCE

Grades 10, 11, 12 * .50 Credit * Career Zone: NRA

Prerequisite: one science credit

This is a one semester class which provides an overview of what astronomy is and how it is studied. Students will be using many virtual simulations and real observational data to describe the movement of stars and planets. This class covers topics such as: history of astronomy, telescopes and instruments for observing the night sky, the moon, sun, solar system planets, stellar evolution and death, and the different types of galaxies. There is very little reliance on math in this class.

91306 BIOLOGY

Grades 9, 10, 11, 12 * 1 Credit * Career Zone: NRA, HUS, EMIT, MMC

This course will provide the student with a strong foundation in the Next Generation Life Science Standards. The curriculum is structured around storylines that encompass multiple life science standards that all relate to an anchoring phenomenon. Emphasis is placed on the development of skills in observation, laboratory technique, group work and scientific inquiry through the investigation of life science topics. Topics include, but are not limited to, genetics, evolution, ecology, cell structure and function, and homeostasis. Dissection may be required.

327 CONCEPTUAL PHYSICS

Grades 10, 11, 12 * 1 Credit * Career Zone: EMIT, HES, MMC

Conceptual Physics is designed to provide an introduction to the basic principles of physics. It is a year-long course intended for students who do not plan on pursuing a career or advanced degree in science. This course is not recommended for students planning to take an AP science class. Conceptual Physics covers the NGSS physical science concepts and their real-world applications. The course utilizes technology and hands-on laboratory activities to demonstrate the relationships and patterns found within Physical Science. This class has an emphasis on concepts and relationships with some mathematical computations.

1331 EARTH SCIENCE

Grades 10, 11, 12 * .50 Credit * Career Zone: NRA

Prerequisite: one Science credit

In this one semester course, students will utilize scientific practices to discover knowledge and overarching concepts related to Earth science and Environmental sustainability. Topics include: Earth and its place in the universe, the solar system, physical geology, weather, climate, water, ocean circulation and topography, natural resources, and global sustainability. The curriculum integrates critical thinking and laboratory skills that stress the development of experimental design, detailed observation, accurate recording, data interpretation, and analysis. Good attendance and daily participation are crucial to a student's success in this course. As this course builds upon the principles of the periodic table, it is recommended that students complete one semester of chemistry before enrolling in Earth Science. Students who do not have experience with chemistry may be required to complete an extra unit outside of class.

1335 ECOLOGY

Grades 10, 11, 12 * .50 Credit * Career Zone: NRA

Prerequisite: 1.0 credit in Biology or AP Biology

Ecology is a one semester elective course offered to students that have successfully completed a year of biology and may be taken concurrently with any science class after one science credit has been earned. Ecology covers a wide range of extended biology topics including environmental issues, ecosystems, water resources and biodiversity. Labs and projects, many of which require working outdoors and with lab equipment provided by the school, will be conducted continuously and throughout each unit. Good attendance and daily participation are crucial to a student's success in this course.

10338 FORENSICS

Grades 11, 12 * .50 Credit * Career Zone: HES, HUS

Prerequisites: Algebra I credit

Forensics is a course that uses a "hands-on" approach to content that integrates concepts and technology from the various disciplines of science through the discussion of real-life issues. In order to merge theory with practice, a hands-on approach will be taken in presentation of course materials. Participation in all laboratory activities as well as attendance at all classroom field trips will be expected. In addition to lab activities, content will be taught through case readings, videos, and information from the Internet. Assessment will be done through a variety of methods including quizzes, tests, written summaries, projects, and presentations. Some topics covered may be considered graphic in nature. Please review the syllabus in the first week of school to ensure proper placement in the course.

1351 FUNDAMENTAL CHEMISTRY

Grades 10, 11, 12 * 1 Credit * Career Zone: EMIT, HES, MMC

Fundamental Chemistry is designed to provide an introduction to the basic principles of chemistry. It is a year-long course intended for students who do not plan on pursuing a career or advanced degree in science. This course is not recommended for students planning to take an AP science class. Fundamental chemistry covers the NGSS chemistry concepts and their real-world applications. The course emphasizes improving critical thinking and laboratory skills.

1313 ORGANIC CHEMISTRY

GRADE 11, 12 * 1 CREDIT * Career Zone: HES

Prerequisite: B or higher in any Biology and Analytical Chemistry, AP Chemistry strongly recommended

Co-requisite: AP Chemistry strongly recommended

This course will prepare students for a college level course in Organic Chemistry. It will provide a survey of the basic organic compounds and the most common organic reactions, with examples of biological and industrial processes involving organic chemistry. Students will learn how to name organic compounds, to draw and understand their structures in two and three dimensions and to learn how chemical structure and reactivity are interrelated. Both virtual and hands-on labs will be done. Students planning on studying nursing, medicine, chemistry, biochemistry or other science fields will benefit from enrollment in this course. **It is strongly recommended that AP Chemistry be taken prior to or concurrently with this course.**

1326 PHYSICS

Grades 10, 11, 12 * 1 Credit * Career Zone: EMIT, HES, MMC

Prerequisite: Biology and Algebra I credit

Physics is a yearlong course intended for students who plan on pursuing a career or advanced degree in science. This course is recommended for students planning to take an AP science class. Physics covers the NGSS physical science concepts and their real-world applications including topics such as motion, forces, energy, magnetism, waves, nuclear physics and electricity. The course utilizes technology and hands-on laboratory activities to demonstrate the relationships and patterns found within Physical Science. This class has an emphasis on concepts and relationships with in depth mathematical computations.

SOCIAL STUDIES

Michigan Merit Curriculum (MMC) high school graduation requirements, page 1 for details

232 ADVANCED CONSTITUTIONAL LAW

Grades 11, 12 * 1 Credit * Career Zone: HUS

Prerequisite: Constitutional Law-WTP course 246 credit

In this course, students will focus their learning on the history, characteristics and landmark cases of the Supreme Court, while actively learning about current cases and issues related to the current Court. Analysis of constitutional issues and simulation of landmark cases will help students better understand the impact and functioning of the Court through our nation's history. Students will also utilize primary source writings and audio of the actual cases to aid in understanding of key decisions.

11250 AP ECONOMICS

Grades 11, 12 * 1 Credit * Career Zone: BMMT, HUS

The purpose of this course is to give students a thorough understanding of the principles of microeconomics that apply to the functions of individual decision makers, both consumers and producers, within the economic system. There is primary emphasis on product markets and includes the study of factor markets and the role of government in the economy. The following topics will be covered during the course: Basic Economic Concepts, The Nature and Functions of Product Markets, Factor Markets, and Market Failure and the Role of Government.

Additionally, students will receive a thorough understanding of the principles of macroeconomics that apply to an economic system as a whole. The following topics will be covered during the course: Measurement of Economic Performance, National Income and Price Determination, Financial Sector, Stabilization Policies, Economic Growth, Open Economy: International Trade and Finance

1248 AP GOVERNMENT

Grades 11, 12 * 1 Credit * Career Zone: HUS

Prerequisite: B+ or higher in US History (1222) or AP United States History (1225) or teacher recommendation

This yearlong college level course is designed to prepare students for the Advanced Placement Test. It focuses on the constitutional foundations of American democracy, political beliefs and behaviors of individuals, political parties, interest group media, policy processes, institutions of national government, and civil rights and civil liberties. There is extensive writing and critical reading for analysis and interpretation.

1257 AP PSYCHOLOGY

Grades 11, 12 * 1 Credit * Career Zone: HUS, HES

Advanced Placement Psychology enables motivated students to fulfill the high school graduation requirement in social studies by taking a college level course. Students learn the systematic and scientific study of the behavior and mental processes of human beings and other animals. Methods, approaches, history, biological bases of behavior, sensation and perception, states of consciousness, learning, cognition, motivation and emotion, developmental psychology, personality, testing and individual differences, abnormal psychology, treatment of disorders, and social psychology are studied. Extensive writing and reading is required. Students will prepare for the College Board's Advanced Placement Psychology examination in May.

1225 AP UNITED STATES HISTORY

Grades 10, 11, 12 * 1 Credit * Career Zone: HUS

Prerequisite: World History (91208) or Honors World History (91211)

Advanced Placement United States History enables sophomores, juniors, and seniors who meet criteria to fulfill the high school graduation requirement in United States history by taking a college level course. The political, diplomatic, economic, intellectual, cultural, and social aspects of United States History are studied in a chronological approach. In analyzing historical viewpoints and original documents, extensive writing and critical reading is required. Students are prepared for the College Board's Advanced Placement United States History Examination in May. May require summer work.

246 CONSTITUTIONAL LAW - WE THE PEOPLE

Grade 12 * .50 Credit * Career Zone: HUS

This course will focus on the fundamental principles of the United States government, including separation of powers, checks and balances, federalism, individual rights and due process. These principles will be examined as they relate to the philosophical and historical foundations of the American political system, the creation of the Constitution, the shaping of American institutions and practice, the development, expansion and protection of the Bill of Rights and the role of the citizen in American democracy. As a requirement for this class, students will participate in the We the People Constitutional Competitions at the district, state, and (possibly) national levels.

250 ECONOMICS

Grade 11 * .50 Credit * Career Zone: BMMT, HUS, MMC

This course is designed to promote economic literacy by focusing on the following areas: The Market Economy, The National Economy of the United States, The International Economy, and Personal Finance.

275 GLOBAL ISSUES & CURRENT EVENTS

Grades 9, 10, 11, 12 * .50 Credit * Career Zone: BMMT, HUS

The Global Issues and Current Events curriculum introduces students to issues that influence our life in today's global community. Emphasis will be placed upon America as a dynamic culture in the 21st century, witnessing changes involving community, state, nation, and world. Some of the pressing problems facing our rapidly changing society will be examined in detail using a variety of media. Critical thinking skills and technology related research is emphasized. Speaking and listening skills are reinforced through class discussions, debates and presentations.

240 GOVERNMENT

Grade 11 * .50 Credit * Career Zone: HUS, MMC

This course will focus on the fundamental principles of the United States government, including separation of powers, checks and balances, federalism, individual rights and due process.

260 HISTORY OF PHILOSOPHY

Grades 11, 12 * .50 Credit * Career Zone: HUS

This course is designed with a two-fold purpose. One aspect of the class is intended as a historical exploration of philosophy and schools of philosophical thought. The content is divided between Western and Eastern philosophical systems. Readings from the works of the great thinkers of the world are an integral part of the course.

The second focus of the course is an attempt to develop the use of logic and reason in decision-making and problem solving. An investigation of the basic questions that have occupied philosophers throughout history are conducted through class discussion, debate, and written response.

91211 HONORS WORLD HISTORY

Grade 9 * 1 Credit * Career Zone: MMC

The goal of the Honors World History course is to provide an opportunity for accelerated students to challenge themselves in the World History classroom and prepare them for Advanced Placement social studies later in their academic career. The course will provide a look into major historical topics from the Greeks and Romans, to the French Revolution and up through the 20th century. In order to help prepare students for the Advanced Placement classroom the Honors World History class will incorporate elements of the AP World History, including curriculum framework and resources.

251 SOCIOLOGY

Grades 11, 12 * .50 Credit * Career Zone: HUS

This is a basic introduction to Sociology as a discipline. Students will explore the relationship between themselves and society through such topics as: Culture and Society: cultural relativism, values, morals, deviance; Social Structure: roles and relationships, social stratification; Social change: social movements, collective behavior; Social Institutions: family, education, religion, economy, and government. Analysis of issues concerning the various social institutions and the impact on the individual will be studied.

254 PSYCHOLOGY I

Grades 11, 12 * .50 Credit * Career Zone: HUS, HES

This class uses lectures, discussions, student exercises and experiments to introduce basic psychological theories. Emphasis is placed on student participation in discovering and sharing with others and how the information gathered might be of practical personal use. Topics covered are: methods and perspectives in psychology, biological bases of behavior, memory & thought, the body & behavior, infancy & childhood, sensation and perception.

256 PSYCHOLOGY II

Grades 11, 12 * .50 Credit * Career Zone: HUS, HES

Prerequisite: Psychology I (254)

This class builds on the knowledge and experience gained in Psychology I. Students concentrate on the development of interpersonal communication skills. Students increase and refine their understanding of the psychological principles and theories introduced in Psychology I. Topics covered are: learning theory, personality and motivation, psychological

disorders and treatments, social influence on individual behavior.

253 SOCIAL ISSUES
Grades 11, 12 * .50 Credit * Career Zone: HUS
Students will explore the use of propaganda and use multiple points of view to examine the complexity of current social issues and their possible implications for individuals, societies, cultures, and the world we live in. Students will examine social issues and their portrayal in documentary, role-play, film, and music. In doing so they use independent critical thinking, group participation and collaboration, and research to recognize and evaluate the variety of points of view through various mediums and perspectives.

216 SPORTS & SOCIETY
Grades 9, 10, 11, 12 * .50 Credit * Career Zone: HUS
This semester-long course will be a sports-focused approach to learning and examining history, societal issues and the role of sports in other cultures. The class will also use sports as a lens through which to understand American life and other cultures. This will be done by examining a selection of themes and experiences in the history of sports in the United States and the world.

1222 UNITED STATES HISTORY
Grades 10 * 1 Credit * Career Zone: MMC
This course is a survey covering the main events of United States history from the Post Reconstruction Era to the present. This course is for all students and requires regular reading and written assignments.

231 US MILITARY HISTORY
Grades 10-12 * .5 Credit * Career Zone: MMC
This course is an examination of the history of America's involvement in various wars. We will analyze the causes and effects of warfare on all of the participants. Students will evaluate selected individuals for their leadership or lack of leadership qualities. Course will provide a more in depth analysis of the technology, strategies, events and people that have shaped our history during times of war.

91208 WORLD HISTORY
Grades 9 * 1 Credit * Career Zone: MMC
This course is designed as a survey of world history beginning with the time before written language. Special emphasis will be placed upon ancient cradles of civilization, the classical world of Greece and Rome, the medieval period, the Renaissance and Reformation, and the development of Nationalism. World culture is one focus of the course. The development of the world's great literature, art, music, religious thought, geography and economic development are ongoing threads in this course of study.

215 WORLD RELIGIONS
Grades 11, 12 * .50 Credit * Career Zone: HUS
This course describes the beliefs and practices of Christianity, Islam, Hinduism, Buddhism, and Judaism, in cultural context, from their origins to the present. It examines their influence on literature and the arts, beliefs and values, socioeconomic and political systems in world civilizations.

VISUAL ARTS

1950 3-D DESIGN
Grades 10, 11, 12 * .50 Credit * Career Zone: AC
Fulfills MMC graduation requirement toward 1.0 credit in Visual, Performing, or Applied Arts.
Students will conceive, plan and execute three-dimensional artwork using various media including but not limited to; plaster, paper, metal, wood, found objects, and recyclable materials. Critique, aesthetic and historical dialogue will also occur through writing assignments and individual, small group and whole class discussions.

950 ADVANCED 3-D DESIGN & CERAMICS
Grades 11, 12 * 1 Credit * Career Zone: AC
Prerequisite: Ceramics (945) or 3-D Design (1950)
Fulfills MMC graduation requirement toward 1.0 credit in Visual, Performing, or Applied Arts.
Students enrolled in 3-D will explore in depth three-dimensional design through the making of bas-relief and full sculptural forms. Students will work with various tools and materials. The materials and techniques will include plaster casting and carving, woodcarving and assembly, clay sculptural techniques, assemblage and environmental installations.

1953 ADVANCED GRAPHIC DESIGN
Grades 10, 11, 12 * 1 Credit * Career Zone: AC
Prerequisite: Any <u>one</u> of the following classes: Digital Imaging (943), Digital Art (944), Photography I (940 or 90940), Photography II (941or 90941)
Fulfills MMC graduation requirement toward 1.0 credit in Visual, Performing, or Applied Arts.
This advanced class will offer students the opportunity to develop in-depth graphic design skills with an emphasis in computer graphics, electronic imaging, and digital production. Students will explore various techniques and methods in the manipulation of digital images, desktop publishing, digital photography and digital printing using Adobe Illustrator©, Adobe Photoshop©, Adobe InDesign©, as well as other software common in today's creative world. Students will solve design problems from concept to completion while working towards final portfolio pieces and design competitions. Students will also explore educational and professional career paths in Graphic Design and Visual Communication.

1943 ADVANCED PHOTOGRAPHY
Grades 10, 11, 12 * 1 Credit * Career Zone: AC
Prerequisite: B- or higher in Photography II (941 or 90941)
Fulfills MMC graduation requirement toward 1.0 credit in Visual, Performing, or Applied Arts.
Students will continue their exploration of Digital Photography. They will work with a DSLR camera (provided) to execute advanced photography techniques to develop a more aesthetic and design-oriented approach. Computer enhancement through Adobe Photoshop© and Aperture© will increase the student's capabilities for marketable skills. Career applications, preparing prints for exhibition, in-depth study of photography as an art form, and portfolio creation and submission will be explored and executed. Materials needed: Students are required to have their own thumb drive, SD memory card, and encouraged to have their own DSLR camera, a tripod and SD card reader. Fee: TBD

1936 AP ART AND DESIGN

Grades 10, 11, 12 * 1 Credit * Career Zone: AC

Prerequisite: An intro level art course and an advanced level class: Advanced Digital Imaging (1948), Advanced Photography (1943), 3-D Design Advanced (950), Ceramics (945)

Fulfills MMC graduation requirement toward 1.0 credit in Visual, Performing, or Applied Arts.

This class is intended to help students prepare for the AP Studio Art Portfolio. The AP Portfolio is designed for students who are seriously interested in the practical experience of visual art. The AP Portfolio is not based on a written exam but through the evaluation of student portfolios at the end of the year. The AP Studio Art program consists of three portfolios: 2D Design, 3D Design and Drawing. Students may submit one, two or all three of the portfolios. The portfolios consist of three content areas; Breadth (versatility), Quality (mastery), and Concentration (focused body of work). Summer work is required.

957 ART SURVEY

Grades 9, 10, 11, 12 * .50 Credit * Career Zone: AC

Fulfills MMC graduation requirement toward 1.0 credit in Visual, Performing, or Applied Arts.

Art Survey is an overview of the elements and principles of Design used in the Visual Arts, and how they have an impact on Cultures, History, and Movements. The course's focus will be on the discovery and study of the impacts, trends, movements, cultural milestones and historic examples. As well as how the elements and principles of design are employed by Artists in documenting and the reporting on their heritage and personal experiences. Students will report and document their discoveries of the Art World, in digital presentations for the class. Students will also document their own efforts in the making of a couple of personal artworks with the instructor's guidance. The Course assignments will be more involved with the researching and reporting of Art rather than the production of Art.

945 CERAMICS

Grades 10, 11, 12 * .50 CREDIT * Career Zone: AC

Fulfills MMC graduation requirement toward 1.0 credit in Visual, Performing, or Applied Arts.

Students will experience the four basic building methods in clay (pinch, coil, slab, and wheel), sculpture and various decorating methods. Improvement in skill development and design possibilities is the basis for evaluating students new to clay work. Students will also work to understand the basis for three-dimensional design, and be exposed to the industrial, utilitarian, and expressive uses for silicates (ceramic compounds). This course is an excellent choice for those students who like working with their hands. There will be an $18 lab fee to cover the cost of clay and glazes. *The serious student may enroll into 947 3-D for further study in this area.

947 CERAMICS 2

Grades 10, 11, 12 * .50 Credit * Career Zone: AC

Prerequisite: C- or higher in Ceramics (945)

Fulfills MMC graduation requirement toward 1.0 credit in Visual, Performing, or Applied Arts.

A semester-long course that develops ceramic skills by building on the basics and creating an understanding of sustained investigation and expanding upon materials and techniques. This course allows for a pottery emphasis, unlike the introductory course.

944 DIGITAL ART

Grades 9, 10, 11, 12 * .50 Credit * Career Zone: AC

Fulfills MMC graduation requirement toward 1.0 credit in Visual, Performing, or Applied Arts.

This introductory course is for the student who would like to experience the exciting world of digital media and the visual arts. Students will use Apple Macintosh© computers to explore various tools and techniques using Illustrator©, Photoshop©, iPhoto©, iMovie© programs and more. Evaluation will be based on the student's ability to combine design elements and principles with digital media.

1952 DIGITAL VIDEO

Grades 10, 11, 12 * .50 Credit * Career Zone: AC

Prerequisite: Any <u>one</u> of the following classes: Digital Imaging (943), Digital Art (944), Photography 1 (609), Introduction to TV/Video Production (608), Advanced TV/Video Production (609)

Advanced course designed to expand the video arts experience through the study of film and multimedia communications applications. Students will experience a year of video editing and movie making using Apple© Technology including, iMovie©, iLife©, Final Cut©, Livetype©, Soundtrack©, Photoshop©, and Illustrator©. As well as producing individual projects, students will participate in the recording, editing, and digital publishing of school events and activities. Group work on productions, meeting of deadlines, and film competitions will give this course "real world" application. Students will also explore educational and professional career paths in Film and Video Production.

935 DRAWING

Grades 9, 10, 11, 12 * .50 Credit * Career Zone: AC

Fulfills MMC graduation requirement toward 1.0 credit in Visual, Performing, or Applied Arts.

Drawing basics such as eye-hand coordination, line, shape, texture, form, perspective, proportional, value awareness, and color theory are presented as each student learns drawing techniques and disciplines to develop the means for his/her own expression from a "beginners" level to a progressively more challenging one.

Materials needed: include a range of drawing pencils (4H, 2H, 2B, 4B, 6B), a sketchbook, an eraser, and a pencil sharpener.

936 DRAWING 2

Grades 9, 10, 11, 12 * .50 Credit * Career Zone: AC

Prerequisite: C- or higher in Drawing (935)

Fulfills MMC graduation requirement toward 1.0 credit in Visual, Performing, or Applied Arts.

In this semester long course, students will build on the basic concepts of drawing to expand in multiple materials and investigate in more depth the possibilities of the mediums of charcoal, watercolor, ink, pastel, as well as mixed media and collage mediums

1939 MURAL PAINTING

Grades 11, 12 * 2 Credits * Career Zone: AC

Prerequisite: B- or higher in Painting 1 and Painting 2

In this course students will experience the process of building and painting large scale paintings for public display. Students will become aware of relationships between client needs, artistic expression, and public appeal.

1934 PAINTING 1

Grades 11, 12 * 1 Credit * Career Zone: AC

Prerequisite: C or higher in Drawing 1 (935) and Drawing 2 (936)

This course fulfills the MMC graduation requirement toward 1.0 credit in Visual, Performing, or Applied Arts.

This course is an introduction of the following painting materials of watercolor for transparent layer painting, acrylic paint for opaque painting and the use of oil paints for the combination of transparent glazing over opaque layers. Students will also be introduced to a variety of painting techniques in each medium.

1935 PAINTING 2

Grades 11, 12 * 1 Credit * Career Zone: AC

Prerequisite: C or higher in Painting 1 (1934)

This course fulfills the MMC graduation requirement toward 1.0 credit in Visual, Performing, or Applied Arts.

This course will expand the student's proficiency and independence in the use of watercolors, acrylic paint and oil paints, as well as the combination of these materials in developing paintings. Students are required to develop an overall theme to a group of five works for display or scholarship submission.

940 PHOTOGRAPHY I

Grades 9, 10, 11, 12 * .50 Credit * Career Zone: AC

Fulfills MMC graduation requirement toward 1.0 credit in Visual, Performing, or Applied Arts.

Students learn the basics of Digital Photography including how to use a Digital Camera and how to use the Mac OS X operating system. Students will learn digital imaging software for processing digital photographs. They will also learn about the History of Photography, famous photographers, photographic composition and the elements and principles of design. Materials needed: Students are required to have their own thumb drive & SD memory card, and encouraged to have their own tripod. Fee: TBD.

941 PHOTOGRAPHY II

Grades 9, 10, 11, 12 * .50 Credit * Career Zone: AC

Prerequisite: C or higher in Photography I (940 or 90940)

Fulfills MMC graduation requirement toward 1.0 credit in Visual, Performing, or Applied Arts.

Students will continue their exploration of Digital Photography and how to operate their individual cameras. This class is a bridge between Photography I and Advanced Photography. Students will expand on photography techniques and skills covered in Photography I as well as more complex camera and composition skills. They will also begin to develop their personal photo style and work with themes. Adobe Photoshop will increase the student's ability to edit photos and learn key design concepts. A digital portfolio is compiled throughout the semester of student's work. Materials needed: Students are encouraged to have their own thumb drive, SD memory card, and encouraged to have their own DSLR camera, a tripod and SD card reader. Equipment will also be available for checkout.

1940 SOCIAL MEDIA

Grades 10, 11, 12 * 1 Credit

This course requires an application, pick-up in the Counseling Office.

Description on page 22

2165 YEARBOOK GRAPHICS

Grades 10, 11, 12 * 1 Credit * Career Zone: AC

Prerequisite: Written application from student, pick-up in Counseling Office.

Fulfills MMC graduation requirement toward 1.0 credit in Visual, Performing, or Applied Arts.

Yearbook Graphics provides the opportunity to use visual arts skills while producing the school yearbook, The Torch. Skill in editing, craftsmanship, interviewing techniques, and how to schedule time productively is developed through hands-on practice while producing the yearbook. Extra time outside of class is required.

WORLD LANGUAGE

All World Languages follow the same guidelines for acquiring a world language. Please register for Spanish, French or German and the appropriate level.

The MMC graduation requirement is 2 credits of the same world language.

1811 FRENCH I

Grades 9, 10, 11, 12 * 1 Credit * Career Zone: AC, BMMT, EMIT, HES, HUS, NRA

Prerequisite: Recommendation of previous English teacher.

Students begin to develop Novice level skills in the target language, acquire a basic understanding of the structure, while learning about the culture through various forms of media. This course is not for native speakers or students with previous experience in target language.

1812 FRENCH II

Grades 9, 10, 11, 12 * 1 Credit * Career Zone: AC, BMMT, EMIT, HES, HUS, NRA

Prerequisite: C- or higher in French I (1811), a C+ or higher on the Testing-Out Test, and/or teacher discretion.

Students begin to develop Intermediate level skills in the target language, acquire a better understanding of the structure, while learning about the culture through various forms of media. This course is for native speakers as a beginning course. For best results, enroll in level II immediately after completing level I.

1813 FRENCH III

Grades 10, 11, 12 * 1 Credit * Career Zone: AC, BMMT, EMIT, HES, HUS, NRA

Prerequisite: C- or higher in French II (1812), a C+ or higher on the Testing-Out Test, and/or teacher discretion.

Students continue to develop Intermediate skills in the target language, acquire an advanced understanding of the structure, while learning about the culture through various forms of media. For best results, enroll in level III immediately after completing level II.

1814 FRENCH IV

Grades 11, 12 * 1 Credit * Career Zone: AC, BMMT, EMIT, HES, HUS, NRA

Prerequisite: C- or higher in French III (1813), a C+ or higher on the Testing-Out Test, and/or teacher discretion.

Students continue to develop Intermediate level skills in the target language with the goal of reaching Intermediate High. Students acquire an advanced understanding of the structure, while learning about the culture through various forms of media. Students will use authentic resources with greater independence to self-advance their cultural and linguistic skills.

1822 GERMAN II

Grades 10, 11, 12 * 1 Credit * Career Zone: AC, BMMT, EMIT, HES, HUS, NRA

Prerequisite: C- or higher in German I (1821), a C+ or higher on the Testing-Out Test, and/or teacher discretion.

Students begin to develop Intermediate level skills in the target language, acquire a better understanding of the structure, while learning about the culture through various forms of media. This course is for native speakers as a beginning course. For best results, enroll in level II immediately after completing level I.

1823 GERMAN III

Grades 11, 12 * 1 Credit * Career Zone: AC, BMMT, EMIT, HES, HUS, NRA

Prerequisite: C- or higher in German II (1822), a C+ or higher on the Testing-Out Test, and/or teacher discretion.

Students continue to develop Intermediate skills in the target language, acquire an advanced understanding of the structure, while learning about the culture through various forms of media. For best results, enroll in level III immediately after completing level II.

1824 GERMAN IV

Grade 12 * 1 credit * Career Zone: AC, BMMT, EMIT, HES, HUS, NRA
Prerequisite: C- or higher in German III (1823), a C+ or higher on the Testing-Out Test, and/or teacher discretion.

Students continue to develop Intermediate level skills in the target language with the goal of reaching Intermediate High. Students acquire an advanced understanding of the structure, while learning about the culture through various forms of media. Students will use authentic resources with greater independence to self-advance their cultural and linguistic skills.

1831 SPANISH I

Grades 9, 10, 11, 12 * 1 Credit * Career Zone: AC, BMMT, EMIT, HES, HUS, NRA
Prerequisite: Recommendation of previous English teacher.

Students begin to develop Novice level skills in the target language, acquire a basic understanding of the structure, while learning about the culture through various forms of media. This course is not for native speakers or students with previous experience in target language.

1832 SPANISH II

Grades 9, 10, 11, 12 * 1 Credit * Career Zone: AC, BMMT, EMIT, HES, HUS, NRA
Prerequisite: C- or higher in Spanish I (1831), a C+ or higher on the Testing-Out Test, and/or teacher discretion.

Students begin to develop Intermediate level skills in the target language, acquire a better understanding of the structure, while learning about the culture through various forms of media. This course is for native speakers as a beginning course. For best results, enroll in level II immediately after completing level I.

1833 SPANISH III

Grades 10, 11, 12 * 1 credit * Career Zone: AC, BMMT, EMIT, HES, HUS, NRA
Prerequisite: C- or higher in Spanish II (1832), a C+ or higher on the Testing-Out Test, and/or teacher discretion.

Students continue to develop Intermediate skills in the target language, acquire an advanced understanding of the structure, while learning about the culture through various forms of media. For best results, enroll in level III immediately after completing level II.

1834 SPANISH IV

Grades 11, 12 * 1 Credit * Career Zone: AC, BMMT, EMIT, HES, HUS, NRA
Prerequisite: C- or higher in Spanish III (1833), a C+ or higher on the Testing-Out Test, and/or teacher discretion.

Students continue to develop Intermediate level skills in the target language with the goal of reaching Intermediate High. Students acquire an advanced understanding of the structure, while learning about the culture through various forms of media. The course also prepares students for achieving the Michigan Seal of Biliteracy endorsement on their diplomas and most students will make their first attempt at a Michigan Seal of Biliteracy-approved proficiency test during this course. For best results, enroll in level IV immediately after completing level III.

21835 AP SPANISH LANGUAGE & CULTURE

Grades 11, 12 * 1 Credit * Career Zone: AC, BMMT, EMIT, HES, HUS, NRA
Prerequisite: Spanish IV (1834) and teacher recommendation of previous Spanish teacher.

The AP Spanish Language and Culture course is a rigorous course taught exclusively in Spanish that requires students to improve their proficiency across the three modes of communication. The course focuses on the integration of authentic resources including online print, audio, and audiovisual resources, as well as traditional print resources that include literature, essays, and magazine and newspaper articles with the goal of providing a rich, diverse learning experience. Students communicate using rich, advanced vocabulary and linguistic structures as they build proficiency in all modes of communication toward the pre-advanced level.

1838 SPANISH CAPSTONE

Grades 11, 12 * 1 Credit * Career Zone: AC, BMMT, EMIT, HES, HUS, NRA
Prerequisite: 1 Credit in Spanish 4

In this course, students will continue acquisition of the Spanish language, increase cultural awareness of Spanish-speaking cultures, provide support and opportunities to earn the Michigan Seal of Biliteracy, and create goals for language acquisition beyond high school.

4th YEAR MATHEMATICS EXPERIENCE COURSES

These Howell High School Courses fulfill the MMC graduation requirement toward math-related experience for students currently in their senior year of high school.

Course Name
Accounting and Accounting 2
Advanced Automotive Technology
Advanced Computer Network Engineering
Advanced TV / Video Production
Agriscience
AP Computer Science Principles
Business Law I and II **(enrollment in both courses senior year)**
CAD Design
Computer Network Engineering (Pinckney)
Construction Trades
Culinary Arts & Hospitality 1 and 2
Early Childhood Education I and II
Educational Careers
Energy Technology
Engineering / Robotics 1 and 2
Graphics Communications
Marketing and Management
Marketing II / School Store
Manufacturing / Internship
Web Page Design / Advanced Web Page Design **(enrollment in both courses senior year)**

Students must be enrolled in a math related experience earning 1 to 3 credits for the entire year or senior math credit will not be earned.

All college bound students are strongly encouraged to enroll in a math course; not only a math experience their senior year.

All students considering participating in NCAA sports must take a math course; not only a math experience.

VISUAL, PERFORMING, APPLIED ARTS COURSES

These Howell High School courses fulfill the MMC graduation requirement toward 1.0 credits in Visual, Performing, or Applied Arts.

Course Name
3-D Design
A Cappella Choir
Advanced 3-D Design & Ceramics
Advanced Graphic Design
Advanced Automotive Technology
Advanced Computer Network Engineering
Advanced Drama
Advanced Journalism
Advanced Photography
Advanced TV / Video Production
AP Art and Design
AP Computer Science Principles
Art Survey
CAD Design
Ceramics and Ceramics 2
Computer Network Engineering
Concert Band
Construction Trades
Culinary Arts & Hospitality 1 and 2
Digital Art
Drama I and II
Drawing and Drawing 2
Early Childhood Education I and II
Education Careers
Energy Technology
Engineering / Robotics 1 and 2
Family and Relationships
Firefighters 1 and 2
Gaming & Application Engineering I and II
Graphic Communications
Health Occupations I
Health Occupations II – Certified Nursing Assistant (CNA)
Health Occupations: Emergency Medical Training (EMT)
Highlander Band
Interior Design
Introduction to TV / Video Production
Introduction to Web Page Design
Manufacturing / Internship
Marching Band
Music Seminar
Nutrition and Culinary Exploration I and II
Painting 1 and 2
Percussion Sectionals
Photography I and II
Pre CAD Design
Pre Manufacturing
Social Media
Symphonic Band
Varsity Men's Choir
Varsity Women's Choir
Wind Ensemble
Women's Chorale
Women's Select Choir
Yearbook Graphics
Yearbook Journalism

NCAA Eligibility & NAIA Eligibility
National Collegiate Athletic Association

The NCAA Initial-Eligibility Clearinghouse has approved the following core academic courses for use in establishing the certification status of student athletes from Howell High School. Click here, enter CEEB Code **232030** for Howell High School].

Students anticipating NCAA athletic eligibility for college athletics need to refer to the NCAA website.

Division I Academic Standards:

English ---------- **4 years**
Natural/Physical Science ---------- **2 years**
(Including 1 year of lab science, if offered)
Math (Algebra 1 or higher) ---------- **3 years**
Social Science ---------- **2 years**
Additional ---------- **1 year**
(English, math or natural/physical science)
Additional ---------- **4 years**
(English, math, natural/physical science, social science, foreign language, comparative religion or philosophy)

For more information, please use the following NCAA links to the:

- Guide for the College-Bound Student-Athlete
- Initial-Eligibility Brochure
- Division I Initial-Eligibility Quick Reference Sheet and Division II Initial-Eligibility Quick Reference Sheet

Determining eligibility of a student to play college athletics is the responsibility of the student and parent.

National Association of Intercollegiate Athletics

- Students anticipating NAIA athletic eligibility for college athletics need to refer to the NAIA website.
- Follow this link for the Eligibility requirements are on Page 3 of the Guide for the College Bound Student.
- Follow this link for the colleges/universities with NAIA membership.

NCAA APPROVED COURSES FOR HOWELL HIGH SCHOOL

APPROVED NCAA COURSES BY TITLE / SUBJECT		CREDIT	HHS CREDIT TYPE	NCAA CREDIT TYPE
ENGLISH	ADVANCED COMPOSITION	1	CORE	CORE
	AP ENGLISH LANGUAGE AND COMPOSITION	1	CORE	CORE
	AP ENGLISH LITERATURE AND COMPOSITION	1	CORE	CORE
	CREATIVE WRITING	0.5	ELECTIVE	CORE
	DEBATE	0.5	ELECTIVE	CORE
	DRAMA AS LITERATURE	0.5	ELECTIVE	CORE
	ENGLISH 10	1	CORE	CORE
	ENGLISH 11	1	CORE	CORE
	ENGLISH 9	1	CORE	CORE
	FANTASY AND SCIENCE FICTION	0.5	ELECTIVE	CORE
	HONORS AMERICAN LITERATURE	1	CORE	CORE
	HONORS ENGLISH 10	1	CORE	CORE
	HONORS ENGLISH 9	1	CORE	CORE
	HUMANITIES	1	CORE	CORE
	POETRY	0.5	ELECTIVE	CORE
	SENIOR ENGLISH	1	CORE	CORE
MATH	ALGEBRA 1	1	CORE	CORE
	ALGEBRA 2	1	CORE	CORE
	ALGEBRA 3	0.5	CORE	CORE
	AP CALCULUS AB	1	CORE	CORE
	AP CALCULUS BC	1	CORE	CORE
	AP STATISTICS	1	CORE	CORE
	FUNCTIONS/STATS/TRIG	1	CORE	CORE
	GEOMETRY	1	CORE	CORE
	HONORS ALGEBRA 2	1	CORE	CORE
	HONORS GEOMETRY	1	CORE	CORE
	INTRO TO PROBABILITY & STATISTICS	1	CORE	CORE
	PRECALCULUS & DISCRETE MATHEMATICS	1	CORE	CORE
	TRIGONOMETRY W/ALGEBRA	1	CORE	CORE
SCIENCE	ANALYTICAL CHEMISTRY	1	CORE	CORE
	ANATOMY	1	ELECTIVE	CORE
	AP BIOLOGY	2	CORE	CORE
	AP CHEMISTRY	2	ELECTIVE	CORE
	AP ENVIRONMENTAL SCIENCE	1	ELECTIVE	CORE
	AP PHYSICS 1 & 2	1	CORE	CORE
	AP PHYSICS C	1	CORE	CORE
	ASTRONOMY/SPACE SCIENCE	0.5	ELECTIVE	CORE
	BIOLOGY	1	CORE	CORE
	CONCEPTUAL PHYSICS	1	CORE	CORE
	EARTH SCIENCE	0.5	ELECTIVE	CORE
	ECOLOGY	0.5	ELECTIVE	CORE
	FORENSIC SCIENCE	0.5	ELECTIVE	CORE
	FUNDAMENTAL CHEMISTRY	1	CORE	CORE
	PHYSICS	1	CORE	CORE
SOCIAL STUDIES	AP COMPARATIVE GOVERNMENT & POLITICS	1	ELECTIVE	CORE
	AP ECONOMICS	1	CORE	CORE
	AP GOVERNMENT	1	CORE	CORE
	AP PSYCHOLOGY	1	ELECTIVE	CORE
	AP US HISTORY	1	CORE	CORE
	CONSTITUTIONAL LAW - WE THE PEOPLE	0.5	ELECTIVE	CORE
	ECONOMICS	0.5	CORE	CORE
	GLOBAL ISSUES AND CURRENT EVENTS	0.5	ELECTIVE	CORE
	GOVERNMENT	0.5	CORE	CORE
	HONORS WORLD HISTORY	1	CORE	CORE
	INTRO TO SOCIOLOGY	0.5	ELECTIVE	CORE
	PSYCHOLOGY I	0.5	ELECTIVE	CORE
	PSYCHOLOGY II	0.5	ELECTIVE	CORE
	SOCIOLOGY - SOCIAL ISSUES	0.5	ELECTIVE	CORE
	US HISTORY	1	CORE	CORE
	WORLD HISTORY	1	CORE	CORE
ADDT'L CORE COURSES	FRENCH I	1	CORE	CORE
	FRENCH II	1	CORE	CORE
	FRENCH III	1	ELECTIVE	CORE
	FRENCH IV	1	ELECTIVE	CORE
	GERMAN I	1	CORE	CORE
	GERMAN II	1	CORE	CORE
	GERMAN III	1	ELECTIVE	CORE
	GERMAN IV	1	ELECTIVE	CORE
	AP SPANISH & CULTURE	1	ELECTIVE	CORE
	SPANISH CAPSTONE	1	ELECTIVE	CORE
	SPANISH I	1	CORE	CORE
	SPANISH II	1	CORE	CORE
	SPANISH III	1	ELECTIVE	CORE
	SPANISH IV	1	ELECTIVE	CORE
	HISTORY OF PHILOSOPHY	0.5	ELECTIVE	CORE
	WORLD RELIGIONS	0.5	ELECTIVE	CORE