

Gibraltar School District

OSCAR A. CARLSON HIGH
SCHOOL

Course Description Guide
2025-2026



GIBRALTAR SCHOOL DISTRICT



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MISSION STATEMENT

The mission of the Gibraltar Schools—in partnership with students, parents, and the community—is to develop each student’s skills, competencies, and understanding necessary to think independently and make sound decisions, to realize self-worth, to adapt to the challenges of the future, and to foster the process of lifelong learning. Each student will develop and possess the skills necessary to be a functioning and contributing member of our society.

TO PARENTS AND STUDENTS

Since our courses are designed to help students reach their ultimate professional goals, the selection of appropriate courses may have a profound influence on career choices. Please read the enclosed course requirements and descriptions carefully before selecting courses.

Students should consider their schoolwork as their job and strive to prevent anything from interfering with doing it well. Outside work responsibilities may be commendable and/or necessary, but infringement upon study time should be minimized.

GRADUATION REQUIREMENTS

Students need 23 out of 24 possible credits to graduate from Carlson High School.

The Class of 2016 and later must fulfill the requirements of the Michigan Merit Curriculum (MMC). The following are required courses for the MMC and should be taken into consideration each year when scheduling.

COURSES	CREDIT REQUIREMENTS
MATHEMATICS	4
Algebra 1	1
Geometry	1
Algebra II/Trigonometry	1
Math or Math Related Course	1
ENGLISH LANGUAGE ARTS	4
English 9	1
English 10	1
English 11	1
English 12	1
SCIENCE	3
Biology	1
Chemistry or Physics	1
Additional Science Credit	1
SOCIAL STUDIES	3
World History and Geography	1
U.S. History and Geography	1
Civics	0.5
Economics	0.5
PHYSICAL EDUCATION	1
Physical Education	0.5
Health	0.5
VISUAL/PERFORMING/APPLIED ART	1
ONLINE LEARNING EXPERIENCE	
FOREIGN LANGUAGE	2 years (or 1 year plus VPAA)

SELECTION OF COURSES

In making selections from the various courses of study, students will find that, while certain courses are required, there are several elective courses from which to choose. The choice of courses should be based on individual career goals, interests, abilities, aptitudes, and prior grades. Courses must be chosen from those listed for the grade in which the student is enrolled.

Each student must select at least 6.0 each year. Students who wish to receive credits through outside agencies such as night school, and/or summer school must have approval from their counselor *prior* to enrollment in these courses. Students who wish to receive credits through online coursework must seek administrative approval *prior* to enrollment.

SCHEDULE CHANGES

Student schedule change requests must be initiated through the counseling office. Student schedules are built based upon student requests. The requests that students make are important and will be followed when building a student's schedule. Schedule change requests will be accommodated only if a student attends summer school, does not meet a prerequisite, to fulfill requirements for graduation, or as a result of a course having been canceled. Changes will be honored within the realistic boundaries of class size, time periods and the student's overall program of study. Schedule changes will not be made to accommodate teacher preference. Students must be sure that all school requirements are met when considering their overall schedule. Additionally, when scheduling, students need to pay particular attention to prerequisites of courses.

ACADEMIC DIFFICULTIES

At times, a student may find a course particularly challenging and need extra help. There is a process. The student should first approach his/her teacher and ask for additional explanation or before/after school help. If this is not satisfactory, the student should visit the guidance office to obtain tutoring information. Teacher led tutoring is available after school free of charge. Also available is the tutoring service of the National Honor Society. If tutoring from a National Honor Society member is desired, students and parents can make the arrangements.

NON-WEIGHTED GRADES

Non-weighted grades are assigned to standard curriculum. This grading scale is based on a 4.0 scale.

Letter Grade	Percentage	Weight	Letter Grade	Percentage	Weight
A	93-100	4.00	C	73-76	2.00
A-	90-92	3.67	C-	70-72	1.67
B+	87-89	3.33	D+	67-69	1.33
B	83-86	3.00	D	63-66	1.00
B-	80-82	2.67	D-	60-62	0.67
C+	77-79	2.33	E	0-59	0

WEIGHTED GRADES

Weighted grades are assigned to Advanced Placement (AP) courses. Weighted grades will be used to determine class rank, valedictorian, and salutatorian. Calculation is based on a 5.0 scale.

Letter Grade	Percentage	Weight	Letter Grade	Percentage	Weight
A	93-100	5.00	C	73-76	3.00
A-	90-92	4.67	C-	70-72	2.67
B+	87-89	4.33	D+	67-69	2.33
B	83-86	4.00	D	63-66	2.00
B-	80-82	3.67	D-	60-62	1.67
C+	77-79	3.33	E	0-59	0

PREPARATION FOR COLLEGE ADMISSIONS

Applicants to colleges must qualify for admission by a combination of the following: scholastic records, standardized testing results, and high school certification. Most colleges now require the applicant to take the American College Test (ACT) or the Scholastic Aptitude Test (SAT). Students and parents should consult college websites for specific information concerning admission requirements. Plans should be made as early as possible in their high school career so everyone concerned will be aware of all necessary requirements for acceptance. Without discounting the importance of such factors as character, personality, and civic responsibility, colleges place great emphasis upon intellectual eagerness, initiative, academic competence, and maturity.

Since admission into many colleges is becoming increasingly competitive, students must expect to do intensive work throughout their high school preparation. It is important to remember that colleges require a copy of the student's academic record (transcript) from grades nine through twelve, and the courses taken each year are the foundation for success in succeeding years.

DUAL ENROLLMENT

In 1996, the Michigan State Legislature passed Public Act 160 the Postsecondary Enrollment Options Act or "Dual Enrollment bill." The bill modifies and expands on provisions of the State School Aid Act providing for the participation of eligible high school students in dual enrollment or postsecondary enrollment options. The classes that students are eligible for must not be offered by the high school or academy and must lead towards accreditation, certification and/or trade licensing.

Students may be enrolled in one or two on-campus or online college classes during the school day. To be eligible for dual enrollment:

1. A student must be enrolled at Carlson High School.
2. The dual enrollment class must be part of his/her regular schedule (i.e. one dual enrollment class and five high school classes).
3. PSAT/NMSQT, PLAN, or ACT or SAT scores determine eligibility for dual enrollment. Students may also be required to take a placement test administered by the college. The list of scores that qualify students for dual enrollment are as follows:

Assessment	Test Section	Content Area	Minimum Dual Enrollment Qualifying Score	
PSAT/NMSQT	Evidenced-Based Reading & Writing	Reading & Writing	360	390
	Mathematics	Mathematics	470	500
PLAN	Mathematics	Mathematics	18	18
	Reading	Reading	17	17
	Science	Science	19	19
	English	English	21	21
ACT	Mathematics	Mathematics	18	18
	Reading	Reading	17	17
	Science	Science	19	19
	English	English	21	21

If the course is in math, proficiency must be exhibited in math, and so on in science, reading, and writing.

4. Students may take courses in subjects for which they are not tested, such as history, political science, or foreign language courses not offered by the school, fine arts programs, and career and vocational classes leading to a degree or certification (as permitted by the district).
5. *Not all college courses are accepted for credit by other institutions. It is the responsibility of the student to meet with a college representative and determine the transferability of a course.*

ADVANCED PLACEMENT (AP) PROGRAM/COURSES

The Advanced Placement (AP) Program is a cooperative educational endeavor of secondary schools, colleges, and the College Board. High school students taking AP exams may earn college credit, ascertain appropriate placement, or both for satisfactory performance on AP exams, depending on which college or university the students will attend. AP courses are intended to be the equivalent of a college-level freshman course. It is expected that students taking an AP course understand that these courses are far more demanding and rigorous than a regular high school course and are taken for the entire school year. This means that students who enroll in an AP course should expect that it will be more difficult than other courses have been and that they will not be removed from the class.

TESTING OUT

Beginning with the class of 2011, as prescribed by the Michigan Merit Curriculum, students are eligible to test out of courses. Students requesting to test out are expected to demonstrate a C+ level of mastery based on the standards of learning prescribed for students enrolled in the same high school course. These demonstrations are determined by individual departments within the Gibraltar School District.

Credit earned by attaining a grade of not less than C+ in a final exam in the course will be credited toward graduation and counted toward the fulfillment of a requirement for a subject area and/or a course

sequence. Credit earned in this manner will be indicated as a “credit” grade (CR) on the student’s transcript and shall not be included in the computation of the student’s grade point average. Credit earned in a course through testing out prohibits a student from receiving credit thereafter for a course lower in course sequence concerning the same subject area. Credit may also not be earned through testing out of a course a student is currently enrolled in.

The testing out window is during the final exam week of semester 1 and semester 2. The Testing Out Request form must be filled out and returned to the Counseling Office by the due date listed. The required paperwork for testing out can be obtained from the Counseling Department and the Counseling website.

PERSONAL CURRICULUM

A Personal Curriculum (PC) is an option initiated by the parent/guardian or an emancipated student that modifies certain requirements of the Michigan Merit Curriculum (MMC) and allows a district to award a regular high school diploma to students who successfully complete their PC. A personal curriculum must include as many of the content expectations of the MMC as practicable.

The legislative intent of the PC is to increase the rigor and relevance of the educational experience. While the PC option is available to any student, the legislative intent is that districts will make curriculum modifications only when it is clear that a modification is necessary for the student to achieve graduation requirements. For example, students in alternative education settings, at-risk students, and students with a qualifying disability under Section 504 of the Rehabilitation Act, may request and be granted a PC modification, only if there is documented evidence that the student may not meet the graduation requirements. For more information on PCs, visit the Michigan Department of Education website and make an appointment with your student’s counselor.

NCAA REQUIREMENTS

The NCAA, or National Collegiate Athletic Association, was established in 1906 and serves as the athletics governing body for more than 1,280 colleges, universities, conferences, and organizations. The NCAA is committed to the student-athlete and to governing competition in a fair, safe, inclusive, and sportsmanlike manner.

The NCAA Initial-Eligibility Clearinghouse is an organization that works with the NCAA to determine a student’s eligibility for athletics participation in his or her first year of college enrollment. *Students who want to participate in college sports during their first year of enrollment in college must register with the clearinghouse.* The clearinghouse staff follows NCAA bylaws and regulations in analyzing and processing a student’s high school academic records, ACT or SAT scores, and key information about amateurism participation, to determine the student’s initial eligibility. To learn more about the clearinghouse, go to: <https://www.ncaaclearinghouse.net>.

If you have questions about NCAA eligibility, please call the NCAA Initial-Eligibility Clearinghouse toll-free at 877/262-1492. You may also call the NCAA at 317/917-6222.

ONLINE LEARNING - 21F

The state of Michigan under section 21f, of the State School Aid Act, allows parents to request that their student, in grades 6-12, enroll in at least one online course, in place of a currently scheduled course. Please see online learning criteria on the state website, and consult your student's counselor.

The following items are required for a student taking an online course:

1. Family signs the 21f online course agreement form before start of course each year
2. Family attends a required meeting with the student's assigned mentor
3. Student completes a weekly 2 - way communication with mentor every Wednesday for attendance about what they are learning in one of the online courses on his/her schedule via in person, email, or message
4. Student must schedule and take final exams in person with mentor
5. Student completes course with a passing grade (60% or higher) by due date

Students who have had successful completion of an online course do the following:

1. Follow a consistent course schedule and the pacing of the course
2. Keep in constant communication with the teacher of the course
3. Communicate with their mentor every Wednesday for attendance
4. Check their emails daily and stay current with school, teacher, and mentor communication
5. Use resources and supports set forth by the course instructor

Students may be denied enrollment into a virtual course for the following reasons:

1. Has failed or struggled with virtual classes in the past
2. Refused to speak to mentor each week for attendance
3. Refused to work on classes at school when requested/required to
4. Consistent cheating/plagiarism in a virtual course
5. Extremely behind in credits and at risk for not graduating on time

MICHIGAN'S SIX CAREER PATHWAYS

Career Pathways have been established by the State of Michigan as a tool to guide students in appropriate course selections to prepare for specific occupations. The courses offered at Oscar A. Carlson High School have been placed in sample Pathways which target specific career clusters. They are suggestions to be used as a general guide, yet have flexibility with regard to individual preference.

ARTS AND COMMUNICATIONS (AC)

Careers related to the humanities and to the performing, visual, literary and media arts. These may include creative or technical writing, illustrating, graphic designing, publishing, theatre arts, journalism, languages, radio and television broadcasting, photography, advertising and public relations. Specific examples include artists, journalists, industrial designers, musicians, photographers, and theater technicians.

BUSINESS, MANAGEMENT, MARKETING, AND TECHNOLOGY (BT)

Careers related to all aspects of business including accounting, business administration, finance, information processing, and marketing. These may include entrepreneurship, sales, marketing, hospitality and tourism, computer/information systems, finance, accounting, office administration, personnel, economics, and management. Specific examples include architects, airplane pilots, engineers, carpenters, microcomputer specialists, equipment operators, technicians, and mechanics.

ENGINEERING/MANUFACTURING AND INDUSTRIAL TECHNOLOGY (EMI)

Careers related to the technologies necessary to design, develop, install, or maintain physical systems. These may include occupations in designing, engineering and science, service technicians, manufacturing technology, transportation, and construction. Specific examples include architects, airplane pilots, engineers, carpenters, microcomputer specialists, equipment operators, technicians, and mechanics.

HEALTH SERVICES (HES)

Careers related to the promotion of health as well as the treatment of injuries, conditions, and disease. These may include medicine, dentistry, nursing, therapy and rehabilitation, nutrition, fitness and hygiene, public health, and veterinary science. Specific examples include physicians, nurses, pharmacists, health facility administrators, dental technologists, veterinarians, physical therapists, and medical technicians.

HUMAN SERVICES (HUS)

Careers in child care, civil service, education, hospitality, and the social services. These may include law and legal studies, law enforcement, public administration, child and family services, and social services. Specific examples include postal workers, police officers, lawyers, teachers, counselors, school administrators, fire fighters, clergy, and social workers.

NATURAL RESOURCES AND AGRISCIENCE (NRA)

Careers related to natural resources, agriculture, and the environment. These may include agriculture, earth science, environmental sciences, fisheries management, forestry, horticulture, wildlife management, and many agri-business/agri-industry occupations. Specific examples include environmentalists, turf grass managers, farmers, landscape architects, plant scientists, marine biologists, and agricultural equipment mechanics.

EXTRACURRICULAR CLUBS

BUSINESS PROFESSIONALS OF AMERICA (BPA)

BPA is a national career and technical student organization consisting of 36 state associations and more than 43,000 members throughout the U.S. With over sixty members, Gibraltar-Carlson has a very active chapter that has been in existence for approximately ten years. As a member of BPA students compete against other students in events such as word processing, accounting, interview skills, web page design, graphic design, computer programming, and presentation skills. Students prepare for these competitions in class and on their own time for a chance to compete at the regional, state and national levels. During our existence as a chapter, students have placed at regional, state and national levels.

To offset the cost of competitions BPA members participate in several fundraising activities throughout the school year, such activities include candy sales and Carlson Idol. Participating in BPA is an excellent networking tool, looks great on a resume, offers students the opportunity for scholarship, and enhances confidence upon entering the business world and/or college.

DECA (DELTA EPSILON CHI ASSOCIATION)

DECA is a co-curricular, student-centered organization that provides activities that will help students learn marketing, management, and entrepreneurial concepts that will prepare them to become skilled, employable workers in the field of marketing. Our DECA Chapter helps develop leadership skills, professional attitudes, business competency, citizenship characteristics, and social growth. Members participate in both District and Statewide competitions as well as fundraising and civic consciousness projects.

DRAMA CLUB

The club presents two productions a year. A fall play and a spring musical. The fall play usually has performances the weekend before Thanksgiving and the spring musical has performances the last week of April. Auditions are held for all speaking roles, however spots are always available for chorus, tech crew, backstage crew and make-up. The activity fee applies to this activity.

FOREIGN LANGUAGE CLUB

The foreign language club is an organization that brings language and cultural awareness to the student body. Meetings are held on a monthly basis, offering students an opportunity to sample foreign foods, to make related crafts, and to learn interesting facts about different cultures.

INTERACT CLUB

The Interact Club is a student version of the Gibraltar Rotary Club. It is a group of students that are interested in giving back to their community. We perform community service projects and raise money for charities. Some activities in which our club participates in can include: adopting a family, bake sales, the lockout, meals on wheels, and a canned food drive.

MUSICAL THEATER PRODUCTION

This drama production, presented by the Music Department of Carlson, is another opportunity for Carlson students to explore the world of music and drama. Students participating in this show will be expected to sing, dance, and act. Auditions are required. There will also be opportunities, for students not involved with the on stage portion of the play, to be involved with scene building as well as back stage crew.

NATIONAL HONOR SOCIETY

Near the start of the second semester, Carlson's National Honor Society holds a meeting for all students who, at the midpoint of their sophomore or junior year, are earning a 3.5 overall grade point average (GPA). At this meeting, applications are distributed to eligible candidates. The application is due at the end of March, prior to Spring Break. A committee of high school staff determines those applicants who meet NHS guidelines and qualifications. Students are notified personally by NHS sponsors of their admittance or denial thereof. Students who are denied admittance during their sophomore year can reapply as juniors.

Carlson High School's chapter of National Honor Society (NHS), in conjunction with the Michigan Association of Secondary School Principals (MASSP), seeks to honor those students who demonstrate excellence in four areas: Character, Scholarship, Leadership, and Service.

PEP CLUB

The Pep Club is designed to be an active, supportive group for all activities at Carlson High School. Our main focus will be to support our athletes and to encourage school spirit into our school. The most important activities are attending school functions and sporting events. As a Pep Club member, students will also make signs for individual athletes, decorate the school, sell Marauder spirit merchandise, and help host events. As a member of Pep Club, students are asked to put in a valuable effort that is greatly appreciated.

QUIZ BOWL

Quiz Bowl is an academic competition team. Students compete with other schools in a test of knowledge on a variety of topics. The trivia-based competition is videotaped and broadcasted on local cable systems. The team can earn eligibility to compete at state and national levels of competition.

SADD

Students Against Destructive Decisions (SADD) uses the power of young people to help their peers make positive decisions and to avoid potentially fatal risks. Today's youth have incredible potential to make a positive difference in the lives of their friends. This club is designed to communicate to students the potential dangers in their lives. Reminders to buckle up, to not drink and drive, and to be aware of their power of friendship and communication to their peers are provided during the school year.

STUDENT COUNCIL

Student Council is a group consisting of eight representatives and four board members from each grade. Together, they coordinate activities and events that promote student involvement and leadership. Activities sponsored by this club include Homecoming, Winterfest, and dances throughout the year. Student Council also participates in community service activities, such as sponsoring a literacy team and putting on a blood drive each fall and spring.

ESPORTS

Esports officially stands for electronic sports, not to be confused with video games. Esports takes video gaming to another level with organized competitive gameplay between two teams, governed by its own strict set of rules and guidelines. The difference is comparable to a pick-up basketball game at a park versus a varsity level school basketball game. Esports requires teamwork, communication, critical and strategic thinking, creativity, sportsmanship, and leadership — much like traditional sports.

MARAUDER CAPTAINS

The Marauder Captain's program is a section of the school's PBIS program with the intention of improving the climate and culture of Carlson High School. The Marauder Captain's program is a peer-to-peer mentoring program with a mission to provide support for incoming students academically and socially. The program aids students in acclimating to a new school and achieving success at Carlson High School. The program's main goal is to provide an outlet for students facing difficulty, whether it be due to

academic troubles, social obstacles, or simply a lack of supportive leadership in their lives. As a school-sponsored program, our goals strongly emphasize academic and behavioral achievements. The members, juniors and seniors, undergo a rigorous application and selection process that revolves around teacher recommendations, interviews, GPA, extracurricular activities, and behavior. The program selects not only those students who demonstrate leadership skills and excel in academics but also those who are outgoing and well-rounded. Once selected to become a Marauder Captain, members are assigned two to five freshmen to mentor throughout the school year. Captains are required to meet regularly with their assigned mentees to provide academic advice or to introduce them to the resources available for their use, such as study tables, private tutoring, or intervention. Other responsibilities include assisting with homework and social trouble, reminding students of school-wide events, answering any questions about the school and its policies, and offering any needed advice.

UNIFIED

Carlson Unified promotes social inclusion and breaks down barriers through sports. It provides students at Carlson with and without intellectual disabilities the opportunity to build friendships, have fun, and learn from one another on and off the court or field. Carlson Unified currently offers flag-football in the fall and basketball in the winter - we are looking to expand in the future.

FISHING CLUB

AVIATION CLUB

CHESS CLUB

EARTH CLUB

HIGH SCHOOL DEMOCRATS ASSOCIATION

ART DEPARTMENT

INTRODUCTION TO ART

GRADE LEVEL: 9-12

PREREQUISITES: None

0.5 CREDIT
1 SEMESTER

COURSE NUMBER: ART 101
PATHWAY: All

Do you have an interest in the arts, but don't know where to start? In Introduction to Arts, students will explore several topics on an introductory level within the visual arts. Topics include calligraphy, drawing, color theory, painting, ceramics, art careers and art history. Students taking this class will be guided through several artistic processes, as they gain the opportunity to try their hand at various art media (or art supplies) and techniques, as well as researching and finding inspiration in artist artwork. Students do not need any artistic experience upon entering this class. This could be a good place to start if you haven't taken much art in the past few years.

DRAWING AND PAINTING I: An Introductory Art Course

GRADE LEVEL: 9-12

PREREQUISITES: None

0.5 CREDIT
1 SEMESTER

COURSE NUMBER: ART 102
PATHWAY: All

This is an introductory course designed to provide students with a working knowledge of drawing, painting, and other 2-dimensional art forms. Students will create artwork in several styles using various art media. Students will study the arts through production, art criticism, art history, aesthetics, and art careers. This class is required before any further two-dimensional art classes may be taken (Drawing II or Painting II).

CERAMICS AND SCULPTURE I: An Introductory Art Course

GRADE LEVEL: 9-12

PREREQUISITES: None

0.5 CREDIT
1 SEMESTER

COURSE NUMBER: ART 103
PATHWAY: All

This is an introductory course designed to provide students with a working knowledge of three-dimensional visual art. This class will focus on developing the students' three dimensional thinking skills. Students will use a variety of art media and projects, which may include pottery, ceramic sculpture, paper mache sculpture, working with metal, and found objects. Students will explore various ideas and topics through his/her art. Students will study the arts through production, art history, art careers, aesthetics and art criticism. This class is required before any further three dimensional classes (Ceramics II or Sculpture II) may be taken.

CARTOONING, ANIMATION AND CHARACTER DESIGN

GRADE LEVEL: 9-12

PREREQUISITES: None

0.5 CREDIT
1 SEMESTER

COURSE NUMBER: ART 200
PATHWAY: All

This art course explores the fundamentals of cartoon and comic art. Students will develop their drawing skills through techniques like squash and stretch, dynamic posing, and expressive character design. The course will cover storytelling elements such as storyboarding, panel transitions, and visual pacing. Students will also explore different styles, including traditional cartoons, comic books, and manga. Through hands-on projects, they will create original characters, develop short comics, and experiment with various inking and coloring methods. This class is perfect for students who want to bring their ideas to life through the art of visual storytelling.

DRAWING II: An Intermediate**Course****0.5 CREDIT****COURSE NUMBER: ART 611****GRADE LEVEL: 9-12****1 SEMESTER****PATHWAY: AC/EMI****PREREQUISITES:** Drawing and Painting I: An Introductory Art Course

This course is structured for the emerging artist who has already taken Drawing & Painting I. Students will be asked to develop their skills and begin more advanced drawings. A deeper exploration of artistic mediums and techniques will be presented to the students. This course will include drawing from observation and will provide insight into the human figure as an artistic subject.

PAINTING II: An Intermediate**Art Course****0.5 CREDIT****COURSE NUMBER: ART 612****GRADE LEVEL: 9-12****1 SEMESTER****PATHWAY: AC/EMI****PREREQUISITES:** Drawing and Painting I: An Introductory Art Course

This course is structured for the emerging artist what has already taken Drawing & Painting I. Students will learn more advanced painting techniques and use them to develop their own abilities. This class will focus on painting techniques, how to correctly mix colors,, and various approaches to painting. The history of these art forms will be examined to enrich the knowledge of the students.

SCULPTURE II: An Intermediate**Art Course****0.5 CREDIT****COURSE NUMBER: ART 613****GRADE LEVEL: 9-12****1 SEMESTER****PATHWAY: All****PREREQUISITES:** Ceramics and Sculpture I: An Introductory Art Course**NOTE:** Offered even years (i.e. 2019-2020)

This course is structured for the emerging artist who has already taken Ceramics & Sculpture I. Students will be asked to develop their skills and begin on more challenging sculptures. Students will be expected to explore various sculptural media in more depth than in Ceramics & Sculpture I. Students will use clay, paper mache and wire, and other art supplies as available.

CERAMICS II: An Intermediate**Art Course****0.5 CREDIT****COURSE NUMBER: ART 614****GRADE LEVEL: 9-12****1 SEMESTER****PATHWAY: All****PREREQUISITES:** Ceramics and Sculpture I: An Introductory Art Course**NOTE:** Offered odd years (i.e. 2020-2021)

This course is structured for the emerging artist who has already taken Ceramics & Sculpture I. Students will be asked to develop their skills and begin on more challenging ceramics. Students will be expected to explore the ceramic medium in more depth than in the Ceramics & Sculpture I. All projects will use clay. Students will make pottery, relief sculptures, and sculptures in the round.

DRAWING III: An Advanced Art**Course****1 CREDIT****COURSE NUMBER: ART 621-2****GRADE LEVEL: 10-12****2 SEMESTERS****PATHWAY: AC/EMI****PREREQUISITES:** Drawing II: An Intermediate Course

This course is structured for the more advanced and goal oriented artist who has already taken Drawing II. Students will be challenged to master advanced techniques, use multiple media, and work on a larger scale. Each student will be asked to push their ideas further and draw from personal experiences to construct artwork based on their own personal expression. Drawing II will provide time to explore selected media with intensity and focus. Additional hours outside of class may be required for successful completion of this course.

SENIOR PORTFOLIO

1 CREDIT

COURSE NUMBER: ART 661-2

GRADE LEVEL: 12

2 SEMESTERS

PATHWAY: AC/EMI

PREREQUISITES: Four semesters of art courses with an A grade, and teacher approval. Students should have experience working with the art media they plan on using in Senior Portfolio.

This course is structured for future college art students and students who wish to pursue art beyond high school. Students will be required to push their artist talents to the next level and create a unified body of work. Students will receive guidance in creating a digital portfolio for college. This class will not only have art production, but include the setting up a personal gallery space and helping to prepare for and promote the annual art show. Additional hours outside of class may be required for successful completion of this course.

BUSINESS DEPARTMENT

MICROSOFT APPLICATIONS & CERTIFICATION

0.5 CREDIT
1 Semester

COURSE NUMBER: BUS 101
PATHWAY: All

GRADE LEVEL: 9-12

PREREQUISITES: None

NOTE: This course can count as the 0.5 Credit 4th year math-related graduation requirement during a student's senior year

This course covers essential computer concepts, Microsoft PowerPoint, Word, Publisher, Excel, and Access. It is offered to all students and recommended for all students to better prepare themselves for attending college or entering the workforce. Students will also have an opportunity to be certified in various Microsoft applications.

PRINCIPLES OF MANAGEMENT

0.5 CREDIT
1 SEMESTER

COURSE NUMBER: BUS 103
PATHWAY: BT/EMI

GRADE LEVEL: 10-12

PREREQUISITES: Microsoft Applications & Certification

Principles of Management builds upon learned software skills (Microsoft Office) and offers students a look at the importance of business management in the business world of today. Topics covered include careers in management, and the management environment. Foundational skills such as problem solving, decision making, and written and verbal communication are also developed. Through the team concept, students will experience all aspects of business ownership through simulating the operation of a mock business venture, including developing an actual product for the company.

MARKETING & ECONOMICS

0.5 CREDIT
1 SEMESTER

COURSE NUMBER: BUS 201
PATHWAY: All

GRADE LEVEL: 9-12

PREREQUISITES: None

NOTE: This course can count as the 0.5 Credit economic-related graduation requirement

Marketing is everywhere! And through this course students will discover how marketing relates to everyday life and learn techniques that enable them to be smarter consumers. Through various activities and projects students will learn about the fundamentals of marketing, selling process, promotional mix, careers in marketing, economics as it relates to marketing, international business, entrepreneurship, and elements of a marketing plan. Students may also have an opportunity to participate in field trips that relate concepts learned in class to the real world. Marketing & Economics is recommended for all students that want to be more knowledgeable and aware of the environment in which they live and work.

MARKETING & PROMOTION

0.5 CREDIT
1 SEMESTER

COURSE NUMBER: BUS 202
PATHWAY: All

GRADE LEVEL: 9-12

PREREQUISITES: None; Marketing & Economics recommended

Marketing & Promotion reinforces concepts learned in Marketing & Economics, and focuses more closely on entrepreneurship and product service planning. Students will learn the steps involved with developing products, as well as branding, packaging, and labeling. Other areas of study include pricing strategies and planning, distribution, inventory control, and financial management. Some projects related to this course include designing a product, creating and testing product packaging through an egg drop competition, completing a distribution obstacle course, writing a business plan, and other fun activities. Students may also have an opportunity to participate in field trips that relate concepts learned in class to the real world.

SPORTS & ENTERTAINMENT MARKETING-FUNDAMENTALS **0.5 CREDIT** **COURSE NUMBER:** BUS 211
1 SEMESTER **PATHWAY:** All
GRADE LEVEL: 10-12
PREREQUISITES: None

Whether you are interested in becoming a sports agent, helping plan the Super Bowl someday, selling sponsorship at Tiger stadium, becoming a sports writer, or just learning about business through sports, Sports & Entertainment Marketing will cover it all. This course will teach marketing concepts and theories as they apply to sports as well as entertainment events, travel and tourism, and recreational activities. Topics of study for Sports & Entertainment Marketing-Fundamentals will include a general overview of the sports and entertainment industries, marketing strategies, branding and licensing, the marketing mix, distribution channels (amateur, college, and professional sports), and more. Students may also have an opportunity to participate in field trips that relate concepts learned in class to the real world.

SPORTS & ENTERTAINMENT MARKETING - PRODUCTS & PROMOTION **0.5 CREDIT** **COURSE NUMBER:** BUS 212
1 SEMESTER **PATHWAY:** All
GRADE LEVEL: 10-12

PREREQUISITES: Sport & Entertainment Marketing-Fundamentals (BUS 211)
Students will continue to explore the rapidly growing industries of sports and entertainment marketing, travel and tourism, and recreational activities. Topics of study for Sports & Entertainment Marketing-Products & Promotion will include sports and entertainment distribution channels, economics of supply and demand, benefits of competition, pricing strategies, promoting sports and entertainment, sponsorship and endorsements, the sales process, legal issues, agents and handlers, business ownership, careers in sports and entertainment marketing, and the Super Bowl. Students will also have an opportunity to participate in field trips that relate concepts learned in class to the real world.

SPORTS OFFICIATING **0.5 CREDIT** **COURSE NUMBER:** BUS 215
GRADE LEVEL: 9-12 **1 SEMESTER** **PATHWAY:** BT/EMI
PREREQUISITES: None

This course will focus on students learning the basic principles of officiating. The primary goal for the class will include students being a registered official in one sport with the Michigan High School Athletic Association. Additional skills will include students to develop their personal philosophy of officiating, understanding finances, and expenses and finances involved with officiating, scheduling games, mechanics (both sport specific and general), and conflict resolution. Activities will include guest speakers of officials and assignors of a variety of sports at all levels of competition (high school, college, and professional levels).

BUSINESS LAW-FUNDAMENTALS **0.5 CREDIT** **COURSE NUMBER:** BUS 301
1 SEMESTER **PATHWAY:** BT/EMI
GRADE LEVEL: 10-12
PREREQUISITES: None

This course will focus on law for both business and personal matters. Students will learn about types of laws, the Constitution, the court system, and criminal and civil proceedings.

BUSINESS LAW-CONTRACT LAW **0.5 CREDIT** **COURSE NUMBER:** BUS 302
1 SEMESTER **PATHWAY:** BT/EMI
GRADE LEVEL: 10-12
PREREQUISITES: None

This course will focus on law for both business and personal matters. Students will learn about the fundamentals of contracts and property, consumer protection, marriage and divorce, renting realty, and wills.

ACCOUNTING A **0.5 CREDIT** **COURSE NUMBER:** BUS 311
GRADE LEVEL: 11-12 **1 SEMESTER** **PATHWAY:** BT/EMI
PREREQUISITES: None

NOTE: This course can count as the 0.5 Credit 4th year math-related graduation requirement during a student's senior year

This course focuses on the financial activities of a sole proprietorship organized as a service business. Students will learn principles related to analyzing and journalizing transactions, posting to a general ledger, managing cash control systems, preparing a work sheet, assembling financial statements, and journalizing adjusting and closing entries. Some computer applications will enhance this course. Students may also have an opportunity to participate in field trips that relate concepts learned in class to the real world.

ACCOUNTING B **0.5 CREDIT** **COURSE NUMBER:** BUS 312
GRADE LEVEL: 11-12 **1 SEMESTER** **PATHWAY:** BT/EMI
PREREQUISITES: Accounting A (BUS 311)

NOTE: This course can count as the 0.5 Credit 4th year math-related graduation requirement during a student's senior year

This course focuses on the financial activities of a sole proprietorship organized as a service business. Students will learn principles related to analyzing and journalizing transactions, posting to a general ledger, managing cash control systems, preparing a work sheet, assembling financial statements, and journalizing adjusting and closing entries. Some computer applications will enhance this course. Students may also have an opportunity to participate in field trips that relate concepts learned in class to the real world.

WEB DESIGN/HTML **0.5 CREDIT** **COURSE NUMBER:** BUS 611
LANGUAGE
GRADE LEVEL: 10-12 **1 SEMESTER** **PATHWAY:** BT/EMI
PREREQUISITES: Business App I (BUS 101)

This course will focus on Web Design using HTML5 language. Students interested in careers as a Web Page Developer/Designer would benefit from this course.

DIGITAL IMAGE EDITING **0.5 CREDIT** **COURSE NUMBER:** BUS 612
GRADE LEVEL: 9-12 **1 SEMESTER** **PATHWAY:** BT/EMI
PREREQUISITES: None

In Photoshop / Image Editing students will learn how to manipulate images, both existing and new. Photoshop CC will be used to allow creation, manipulation and enhancement of digital images and composites. Students interested in graphic design would benefit from this course.

BUSINESS WORK BASED **0.5 CREDIT** **COURSE NUMBER:** BUS 899
STUDY
GRADE LEVEL: 11-12 **1 SEMESTER ONLY** **PATHWAY:** All

CO-REQUISITES: MUST ALSO TAKE 1 OF THE FOLLOWING THE SAME SEMESTER AS WBL: BUS 201, BUS 202, BUS 211, BUS 212, or School Store and have at least 3 face to face courses at Carlson.

The Work-Based Learning (WBL) program provides students with a planned program of employment experiences to help prepare a dynamic workforce for the future of Michigan. Students interested in the Work-Based Learning Program must be currently employed by an employer willing to meet with the assigned instructor, sign time cards, and evaluate the student. Employment must be within a 10 mile radius of Carlson High School. Successful completion of the course requires further development of employability and soft skills, completion of an educational development plan, resume and cover letter, completing 270 working hours, timely submission of weekly time cards, and successful observations by both the employer and the assigned work-based learning instructor, creating a great working relationship between the employer and Carlson High School.

ENGLISH DEPARTMENT

ENGLISH LANGUAGE ARTS 9

GRADE LEVEL: 9

1 CREDIT

2 SEMESTERS

COURSE NUMBER: ENG 101-2

PATHWAY: All

PREREQUISITES: Successful completion of 8th grade English

The goal for English Language Arts Grade 9 is to build a solid foundation of knowledge, skills, and strategies that will be refined, applied, and extended as students engage in more complex ideas, texts, and tasks. In English Language Arts Grade 9, students will be introduced to the various genre of classic and contemporary narrative and informational texts that will be read and analyzed throughout high school. Ninth graders will connect with and respond to texts by analyzing relationships within and across families, communities, societies, governments, and economies. Through the lens of Inter-Relationships and Self-Reliance, they will consider how they build relationships, how their relationships impact others, and their responsibility to society.

ENGLISH LANGUAGE ARTS 10

GRADE LEVEL: 10

1 CREDIT

2 SEMESTERS

COURSE NUMBER: ENG 201-2

PATHWAY: All

PREREQUISITES: English 9 (ENG 101-102)

The goal for English Language Arts 10 is to continue to build a solid foundation of knowledge, skills, and strategies that will be refined, applied, and extended as students engage in more complex ideas, texts, and tasks. In English Language Arts 10, students will explore and analyze various genres of American Literature to further develop their skills in analysis and evaluation. Through these means, English Language Arts 10 students will be able to make real world connections and look at the world with open minds.

ADVANCED LANGUAGE ARTS 10

GRADE LEVEL: 10

1 CREDIT

2 SEMESTERS

COURSE NUMBER: ENG 203-4

PATHWAY: All

PREREQUISITES: English 9 and Teacher approval*

This course will follow the Michigan Merit Curriculum and CCRs that have already been adopted; students will engage in deeper discussion, analytical writing, and higher level activities. Teacher approval will be necessary for admission into this course.

ENGLISH LANGUAGE ARTS 11

GRADE LEVEL: 11

1 CREDIT

2 SEMESTERS

COURSE NUMBER: ENG 301-2

PATHWAY: All

PREREQUISITES: English 10 (ENG 201-202)

The goal for English Language Arts 11 is to continue to build a solid foundation of knowledge, skills, and strategies that will be refined, applied, and extended as students engage in more complex ideas, texts, and tasks. In English Language Arts 11, students will add to the list of various genres of classical and contemporary narrative and informational texts that will be read and analyzed throughout high school with a special focus on British and World literature and SAT success. Eleventh graders will connect with and respond to texts through transformational thinking. They will learn to use forward thinking to help make better decisions, to generate new ideas for solving problems, and to find wisdom. They will build a context for change in their lives and develop realistic plans for the future.

ADVANCED PLACEMENT (AP) LANGUAGE & COMPOSITION

GRADE LEVEL: 11

1 CREDIT

2 SEMESTERS

COURSE NUMBER: ENG 505-6

PATHWAY: All

PREREQUISITES: Students should have an A or B average in previous English classes and be recommended by their tenth grade English teacher.

The AP English Language course provides students with the opportunity to read rigorous texts from various eras and in different genres, analyzing the big ideas of rhetorical situations, claims/evidence, reasoning/organization, and style to prepare students to communicate effectively in the 21st century. As articulated in the AP English Course Description, the purpose of AP English Language and Composition is

to “enable students to read complex texts with understanding and to write prose...to communicate effectively with mature readers” (The College Board 2010). Students use given texts to reach the goal of effective writing and analysis: they will read and annotate texts from a critical perspective to become more aware of rhetorical strategies and the purposeful use of language. As this awareness grows, students can more readily incorporate these same strategies into their writing and cultivate personal writing styles. Students will also develop the skills to analyze visuals (photographs, paintings, sculptures, political cartoons, advertisements, etc.) with the same critical lens used in traditional print texts. Expectations for students are appropriately high for a college introductory-level course, and the work required of them is challenging.

ENGLISH LANGUAGE ARTS 12

1 CREDIT

COURSE NUMBER: ENG 401-2

GRADE LEVEL: 12

2 SEMESTERS

PATHWAY: All

PREREQUISITES: English 11 (ENG 301-302)

The goal for English Language Arts 12 is to refine, apply, and extend the solid foundation of knowledge, skills, and strategies developed in English Language Arts 9 through 11. Using the lens of leadership skills, English Language Arts 12 students will develop a world perspective by analyzing classic contemporary texts in a variety of genre, including Post-Colonial literature. Twelfth grade students will synthesize information, ideas, and themes to understand the past, the present, and to think innovatively about the future. They will identify and apply their own leadership skills and prepare for responsible actions as American citizens in the context of a global world.

**ADVANCED PLACEMENT (AP)
LITERATURE & COMPOSITION**

1 CREDIT

COURSE NUMBER: ENG 501-2

GRADE LEVEL: 12

2 SEMESTERS

PATHWAY: All

PREREQUISITES: Students should have an A or B average in previous English classes and be recommended by their eleventh grade English teacher.

Students will learn the underlying assumptions of writing and reading literature through speaking, listening, reading, but chiefly through the experience of their own writing. They will become aware of language devices such as connotation, metaphor, irony, syntax, and tone. Writing assignments focus on analysis of literature through exposition and argument. Students will be required to participate in the A.P. English Literature and Composition Test administered under the auspices of the College Board.

**JOURNALISM AND
YEARBOOK I**

1 CREDIT

COURSE NUMBER: ENG 611-2

GRADE LEVEL: 9-12

2 SEMESTERS

PATHWAY: All

Yearbook 1 is an introductory course designed for students new to yearbook production and journalism. Students will learn the fundamentals of photography, design, and journalistic writing while contributing to the creation of the yearbook. Successful completion prepares students for leadership opportunities in Yearbook 2. This is an academic elective with academic expectations. Students are expected to complete their assigned activities and projects in a timely fashion and to the best of their ability. All assignments are relevant to learning the different aspects of the publishing process. Skills learned are vital to the creation of a contemporary, journalistically-sound yearbook.

**JOURNALISM AND
YEARBOOK II**

1 CREDIT

COURSE NUMBER: ENG 617-8

GRADE LEVEL: 10-12

2 SEMESTERS

PATHWAY: All

PREREQUISITE: Journalism and Yearbook 1

Yearbook 2 is an advanced course for returning or experienced students, focusing on leadership, project management, and advanced design techniques. Students take on larger responsibilities, including managing tighter deadlines, producing multiple spreads, and overseeing aspects of yearbook production. Leadership roles such as Editor and Co-Editor provide real-world experience in team management and communication. This is an academic elective with academic expectations. Students are expected to complete their assigned activities and projects in a timely fashion and to the best of their ability. All assignments are relevant to learning the different aspects of the publishing process. Skills learned are vital to the creation of a contemporary, journalistically-sound yearbook.

0.5 CREDIT

COURSE NUMBER: ENG 621

SPEECH

GRADE LEVEL: 11-12

1 SEMESTER

PATHWAY: All

PREREQUISITES: English 10 (ENG 201-202) * Offered even years only*

This course is designed to develop poise and confidence in public speaking. The speaker's presence will be closely analyzed, as well as the speaker's ability to formulate speeches for a number of different purposes. The student will also master the craft of speech outlining and the use of visual and media aids, both of which will assist them in improving their speech delivery.

DEBATE

0.5 CREDIT

COURSE NUMBER: ENG 622

GRADE LEVEL: 11-12

1 SEMESTER

PATHWAY: All

PREREQUISITES: Passing grade in previous English courses

Throughout the semester, students will delve into the art of debate through interactive discussions, guided practice sessions, and competitive debates to gain a comprehensive understanding of argumentation techniques and rhetorical strategies. Through debate, students will learn how to articulate their viewpoints, engage in respectful discourse, and foster a deeper understanding of complex issues in today's world.

ADVANCED GRAMMAR

0.5 CREDIT

COURSE NUMBER: ENG 641

GRADE LEVEL: 11-12

1 SEMESTER

PATHWAY: All

PREREQUISITES: English 10 (ENG 201-202)

Advanced Grammar is designed to educate students on the basics of the language they use in written form. The philosophy of the class is derived from the concept that there are "rules" that one must follow in order to standardize the written language. This *standardization* is the basis for effective communication – understand and a universality of written concepts. In order for the written language to be understood by all of those who use it, the rules must be clearly stated and used. The class begins with the most basic elements of grammar – subject – verb – predicate – and continues through parts of speech, phrases, clauses, punctuation, and sentence types. The entering student is not expected to have any advanced knowledge of the language; however, they will gain a complete understanding of English Grammar. Advanced Grammar teaches the concepts of the English Language. These concepts are extremely valuable in taking the ACT and other standardized tests. Students will keep a notebook during the course that will account for the majority of their grade. Students will be evaluated through homework, quizzes, tests, and essays. Pre, Mid, and Post tests will allow each student to measure individual progress on real standardized tests. This class is excellent preparation for college writing.

POETRY AND LITERATURE (Taylor's Version)

0.5 CREDIT

COURSE NUMBER: ENG 647

GRADE LEVEL: 10-12 (PENDING APPROVAL)

1 SEMESTER

PATHWAY: All

This course will begin with studying poetry mechanics such as stanzas, lines, rhyme schemes, and structure. Then, we will focus on poetic devices, narrative techniques, and thematic elements using Taylor Swift lyrics. We will also focus on the analysis of theme, diction, syntax, voice, figurative language, and imagery. Each unit will center on a different album and discuss how songs are organized with verses and choruses which are stanzas in poetic terms. Throughout this course, we will look at the various references to literature in Swift's songwriting while considering how both Swift and the authors we are reading interact with their cultural moment and with ideas of the past. We will study literature selections like Charlotte Bronte's *Jane Eyre*, Alexander Pope, Shakespeare, and poems from Sylvia Plath and Robert Frost to serve as launching points for student-driven discussions.

Throughout the course, students will engage in reading, analyzing, writing, class discussions, and small group seminars. The final project will be a portfolio containing journals, notes, a reader's sketch, and written pieces.

YOUNG ADULT LITERATURE I
GRADE LEVEL: 10-12

0.5 CREDIT
1 SEMESTER

COURSE NUMBER: ENG 650
PATHWAY: All

The Young Adult Literature course is designed specifically to enhance student knowledge in the genre of young adult literature as well as the themes. Students will be reading multiple novels that are written for and marketed toward young adults. Students will make critical evaluations, explore a broad range of young adult literature, investigate strategies for encouraging student reading, and consider how young adult literature can be used to promote both life-long reading and critical thinking. Throughout the course, students will engage in group readings/ discussions, partner reading/discussions and class discussions. Students will be reading six young adult novels as well as an individual novel. The final project will be a portfolio containing journals, notes, a reader's sketch, and book cards.

YOUNG ADULT LITERATURE II
GRADE LEVEL: 10-12

0.5 CREDIT
1 SEMESTER

COURSE NUMBER: ENG 657
PATHWAY: All

The Young Adult Literature II course is designed specifically to enhance student knowledge in the genre of young adult literature as well as the themes. Students will be reading multiple novels that are written for and marketed toward young adults. This course is not a continuation of Young Adult Literature I; the two courses may be taken independently. All novels will center around comparisons with a focus on carrying literature traits through multi-media outlets. Students will make critical evaluations, explore a broad range of young adult literature, investigate strategies for encouraging student reading, and consider how young adult literature can be used to promote both life-long reading and critical thinking. Throughout the course, students will engage in group readings/ discussions, partner reading/discussions and class discussions. Students will be reading five young adult novels as well as a companion adult novel. The final project will be a portfolio containing journals, notes, a reader's sketch, and book cards.

COLLEGE AND CAREER WRITING AND RESEARCH
GRADE LEVEL: 11-12

0.5 CREDIT
1 SEMESTER

COURSE NUMBER: ENG 654
PATHWAY: All

College and Career Writing and Research is designed specifically to enhance student knowledge in the field of pre-college writing, technical writing, professional vocabulary, and knowledge about their individual college and career choices. By using the Language Arts tools including research, writing, technical writing, and critical thinking, students will learn the techniques for writing college entrance essays, statement of purpose essays, scholarship essays, investigate their career choices, write resumes, and short research papers (vitas'), and letters of application to their individual schools. Students will correspond with their schools and personnel in their job market in order to learn more about college expectations, job opportunities, and the actual working environment. In addition, students will also be required to complete a final portfolio of coursework, essays, personal achievements, and career research.

CREATIVE WRITING I
GRADE LEVEL: 11-12

0.5 CREDIT
1 SEMESTER

COURSE NUMBER: ENG 651
PATHWAY: All

PREREQUISITES: Passing grade in previous English courses

Creative Writing provides all students with an opportunity for additional writing instruction beyond the English program. Experimentation with many forms of writing is encouraged, with an emphasis on poetry, short stories, plays, and all forms of descriptive writing. Students will also continue to expand and refine their ability to write through analyzing and evaluating their own writing and that of other students.

LIBRARY/RESEARCH SKILLS
GRADE LEVEL: 11-12

1 CREDIT
2 SEMESTERS

COURSE NUMBER: ENG 655-6
PATHWAY: All

PREREQUISITES: Teacher/Media Specialist Approval

Students will be introduced to the research process by assisting with the daily operation of the Carlson High School Library/Media Center. Objectives are for students to learn the basic daily operational tasks associated with the Carlson High School Media Center, complete a book review and recommendation for addition to the library collection and complete an inventory of a library section. Students will also complete a major research project to demonstrate their ability to obtain research electronically and in print and present their findings.

LEADERSHIP SKILLS**0.5 CREDIT****COURSE NUMBER: ENG 658****GRADE LEVEL: 10-12****1 SEMESTER****PATHWAY: All****PREREQUISITES:** Teacher Approval/Membership in an official CHSI Club

This semester long course will be used to create learning opportunities and experiences that will provide students with the knowledge, attitudes, and skills necessary to assume leadership positions within the school. It will also help prepare students for leadership positions in the workplace, community, and in post-secondary education settings. Emphasis will be two-fold: The creation and presentation of school programming and the development of service projects that have the potential to benefit the community at large. This class will help young adults gain a better understanding of leadership and its application to one's daily life as a student and citizen.

FOREIGN LANGUAGE DEPARTMENT

FRENCH I

GRADE LEVEL: 9-12

1 CREDIT

2 SEMESTERS

COURSE NUMBER: FRE 101-2

PATHWAY: All

French I is an introduction to the study of the French. The course content will include the study of basic grammatical forms, as well as the typical language acquisitions such as: objects, numbers, family, time, days, months, weather etc. The goal is for the student to feel confident using French. The student will acquire listening, speaking, reading and writing skills through an integrated approach involving a wide variety of activities: group/pair work, video, audio recordings, and dialogs. The course also includes a strong focus on the life and culture of the French-speaking countries.

FRENCH II

GRADE LEVEL: 9-12

1 CREDIT

2 SEMESTERS

COURSE NUMBER: FRE 201-2

PATHWAY: All

French II is a course that further develops the four language skills through an in-depth analysis of grammar and oral communication at an academic level. Francophone cultures will be explored through various classroom activities. Students will be required to use French in their daily interactions in class with the teacher and other students. Vocabulary groups: individual sports and after-school activities, celebrations, food and food and cooking, school places and events, daily routine, childhood activities, nature and animals, health, movies and books, televisions shows and music, vacation. Grammar topics: Complete review of French I topics; study of all present tense verbs (regular, irregular, stem-changing, reflexive), study of the past tenses and their usage; commands, future and conditional tenses; usage of reflexive, direct object, indirect object pronoun, and all other object pronouns.

FRENCH III

GRADE LEVEL: 10-12

1 CREDIT

2 SEMESTERS

COURSE NUMBER: FRE 301-2

PATHWAY: All

French III is a continuation of the beginning level courses that will help the student continue learning the French language. In this course, the student will learn listening, speaking, reading and writing skills through activities that are based on pedagogically proven methods of foreign language instruction. Throughout the given units students will learn to express themselves using an ever increasing vocabulary, present, past, future, and conditional-tense verbs, articles, adjectives and increasingly complex grammatical structures. Grammar is introduced and practiced in innovative and interesting ways with a variety of learning styles in mind. Culture is sprinkled throughout the course in an attempt to help the learner focus on the French speaking world and their culture, people, geographical locations and histories.

FRENCH IV

GRADE LEVEL: 11-12

1 CREDIT

2 SEMESTERS

COURSE NUMBER: FRE 401-2

PATHWAY: All

In French IV, students are able to engage in conversation and comprehend another person's dialogue without much repetition. Topics go well beyond basic needs and include: personal and family affairs, current events, school, work, etc. Students can comprehend descriptions and narration referring to past, present, or future events. They can comprehend dialogue about special fields of interest and narratives of a non-technical or specialized nature. When listening to material restricted mainly to vocabulary and structures studied in class, their comprehension appears to be on a higher level. There is an increased comprehension of in-depth material about special interest topics used in class. Students will explore diverse French-speaking countries and cultures using technology to create, present authentic projects in various media forms such as videos, dialogues, reports, and slide presentations.

SPANISH I
GRADE LEVEL: 9-12

1 CREDIT
2 SEMESTERS

COURSE NUMBER: SPN 101-2
PATHWAY: All

Spanish I is designed to introduce and familiarize students with the Spanish language and the culture of Spanish speaking nations. Students also practice comprehension, speaking, reading and writing while developing a thorough vocabulary.

SPANISH II
GRADE LEVEL: 9-12

1 CREDIT
2 SEMESTERS

COURSE NUMBER: SPN 201-2
PATHWAY: All

PREREQUISITES: Spanish I

Spanish II is an intermediate study of the Spanish language and its culture. Spanish II is designed to improve upon the conversational skills and comprehension skills of the student. Simple literature is studied as well as grammar and writing necessary for fluency in the language.

SPANISH III
GRADE LEVEL: 9-12

1 CREDIT
2 SEMESTERS

COURSE NUMBER: SPN 301-2
PATHWAY: All

PREREQUISITES: Spanish II (SPN 201-202, C or better recommended)

Spanish III is an advanced in-depth exploration of the Spanish language. Students are introduced to the imperfect, future, and conditional tense, and explore more in depth the preterite tense. Students are required to make oral presentations, create written reports, and read authentic literature in the target language.

SPANISH IV
GRADE LEVEL: 11-12

1 CREDIT
2 SEMESTERS

COURSE NUMBER: SPN 401-2
PATHWAY: All

PREREQUISITES: Spanish III (SPN 301-302, C or better recommended)

Spanish IV is an in-depth exploration of the Spanish language and culture. Students will work with authentic texts, broaden their vocabulary, and improve their grammar in the target language. Speaking proficiency is emphasized and the majority of the class takes place in the target language.

AP SPANISH
GRADE LEVEL: 11-12

1 CREDIT
2 SEMESTERS

COURSE NUMBER: SPN 501-2
PATHWAY: All

PREREQUISITES: Spanish IV (SPN 301-302, C or better recommended)

In AP Spanish, Students will be immersed in the Spanish language. They will learn about the cultures of Spanish-speaking countries, converse about topical issues, and practice advanced grammar through reading and writing. This class will focus on speaking and listening to the language as much as possible. Students will also be preparing for the AP test with written tests that assess reading comprehension and writing skills.

MATHEMATICS DEPARTMENT

INTRODUCTION TO ALGEBRA

GRADE LEVEL: 9

PREREQUISITES: Teacher recommendation

1 CREDIT

2 SEMESTERS

COURSE NUMBER:MTH099-0

PATHWAY: All

This year-long course is designed for students that have completed the middle school sequence of math classes, but may not be ready to begin Algebra 1 at the high school level. Students will revisit algebra readiness skills from middle school and be introduced to the fundamentals of Algebra 1, including variables, equations, functions, and linear relationships, with skills focusing on the algebraic processes used to solve an equation, including opposites, inverses, identity elements, as well as a comprehensive survey of the operations on the real number system. Students will gain the foundational skills and knowledge that will help prepare them for success in their future high school math courses. This course will use traditional methods, as well as technology and real-world applications to supply meaning and context to the content.

ALGEBRA I

GRADE LEVEL: 9

PREREQUISITES: None

1 CREDIT

2 SEMESTERS

COURSE NUMBER:MTH101-2

PATHWAY: All

Throughout the Algebra I course, students will take a look at the basic principles used in mathematics. Some of the topics that will be covered include: properties of multiplication, division, addition, subtraction, and exponents; solving systems of equations and inequalities; and graphing lines and curves. The class will include many examples of real-life situations in order to answer the question, "When will I ever use this?" Students use skills from Algebra I every day without realizing it. The goal is to encourage students to continue to use formulas in order to simplify real-life situations. The grade students will receive in this class will be comprised of daily homework assignments, quizzes, and test scores. Students should expect homework on a daily basis with quizzes over the material at least once a week. A calculator will prove to be very useful for students, but is not required. Some calculators will be available to students during class time, but they may need them to complete homework at home. After completion of the Algebra I course, students should be prepared to move on to Geometry and Algebra II. Students should also have mastered skills essential to receive a passing score on the MME exam.

GEOMETRY

GRADE LEVEL: 9-10

PREREQUISITES: Algebra I (MTH 101-102)

1 CREDIT

2 SEMESTERS

COURSE NUMBER:MTH201-2

PATHWAY: All

The following topics will be covered in this class: patterns, points, lines, planes, segments, reasoning and proofs, perpendicular and parallel lines, triangles, perimeter, properties of triangles, quadrilaterals, transformations, similarity, right triangles and trigonometry, circles, area of polygons and circles, surface area and volume, and an i probability and statistics. The book used in this course closely follows the basic concepts of Euclidean Geometry and emphasizes using algebraic techniques. The aim of the course is to teach the Geometry concepts for use in following courses and real life applications, and in addition, introduce students to the fundamentals of probability and statistics which has increasingly become a popular topic assessed on standardized tests. Assessments will be in the form of question/answer, quizzes, projects, and written evaluations.

ADVANCED GEOMETRY

GRADE LEVEL: 9-10

PREREQUISITES: Algebra I (MTH 101-102)

1 CREDIT

2 SEMESTERS

COURSE NUMBER:MTH205-6

PATHWAY: All

This course will follow Michigan Merit Curriculum and CCSS that have already been adopted; Students will engage in deeper discussion and higher level math activities. Teacher approval will be necessary for admission into this course.

ALGEBRA II**GRADE LEVEL:** 10-12**1 CREDIT
2 SEMESTERS****COURSE NUMBER:**MTH301-2
PATHWAY: All**PREREQUISITES:** Geometry (MTH 201-202)

In Algebra II, students will pick up where they finished in Algebra I (MTH 101-2). Solving systems of linear equations and inequalities will be expanded upon. Other topics that will be covered include: quadratic equations, logarithms, and trigonometric equations. A graphing calculator will help to enhance the material covered throughout the course. While graphic skills are necessary for students, the ability to create and investigate trigonometric and quadratic functions is very useful. Although the calculator is not required, it is strongly recommended. By the end of Algebra II, students should have mastered logarithms and trigonometric values and functions so as to prepare them for Pre-Calculus. Students will also find that the exposure to these topics will be helpful when taking the MME exam. Upon successful completion of both terms, students will have fulfilled the Algebra II requirement as outlined in the Michigan Merit Curriculum.

ADVANCED ALGEBRA II**GRADE LEVEL:** 10-12**1 CREDIT
2 SEMESTERS****COURSE NUMBER:**MTH303-4
PATHWAY: BT/EMI/NRA**PREREQUISITES:**Geometry (MTH 201-202) Advanced Geometry

This course will follow Michigan Merit Curriculum and CCSS that have already been adopted; Students will engage in deeper discussion and higher level math activities. Teacher approval will be necessary for admission into this course.

PRE-CALCULUS**GRADE LEVEL:** 10-12**1 CREDIT
2 SEMESTERS****COURSE NUMBER:**MTH401-2
PATHWAY: BT/EMI/NRA**PREREQUISITES:** Algebra II/Trig (MTH 301-302)

This course strengthens the student's Algebra and Geometric skills before entering the course of Calculus. It is intended to give the student a wide exposure to fields that use mathematics. Most students that enroll in this course are expected to continue to further their education in mathematics (i.e. Calculus or first year college courses). This course will go into more depth in the areas of exponential, logarithmic, trigonometric functions and discrete mathematics. Through the use of application, problem solving, reasoning, communication, and technology the student will gain further insight into Pre-Calculus. Through the understanding of a variety of areas of mathematics the student learns in this course, they will be able to apply this knowledge to occupations that use mathematics. Students that are successful in this course should continue their mathematics whether at high school or college.

PRE-COLLEGE ALGEBRA**GRADE LEVEL:** 12**0.5 CREDIT
1 SEMESTER****COURSE NUMBER:** MTH 410
PATHWAY: BT/EMI/NRA**PREREQUISITES:** Algebra II

This is a survey course where students will review order of operations, exponent rules, operations with polynomials, factoring, radicals, solving inequalities, solving and graphing equations, solving systems of equations, and basic statistics. Pre-College Algebra as a mathematics course is designed to help bridge the gap between traditional math courses through Junior year with Algebra 2, and a student's Freshmen year of college, helping prepare students for college math placement exams with a stretch of enhancing mathematical skills.

PERSONAL FINANCE**GRADE LEVEL:** 12**0.5 CREDIT
1 SEMESTER****COURSE NUMBER:** MTH 420
PATHWAY: All**PREREQUISITES:** None

NOTE: This course can count as 0.5 Credit of the economic-related graduation requirement in a student's sophomore year or 0.5 of the math-related graduation requirement in a student's senior year.

Topics covered in Personal Finance include understanding income and how career choices affect future income; money management, using a checking account and keeping good records, as well as creating and following a financial plan; spending a credit (sources and costs of using credit); and options and strategies for saving and investing. The knowledge and skills students learn through this class will help them make good financial decisions- now and in the future.

YOUR FINANCIAL FUTURE**GRADE LEVEL:** 12**PREREQUISITES:** None**0.5 CREDIT
1 SEMESTER****COURSE NUMBER:** MTH 421
PATHWAY: All

NOTE: This course can count as 0.5 Credit of the math-related graduation requirement in a student's senior year.

Students today face an increasing number of financial choices as a result of the global economy in which we live. This course focuses on the financial-life aspects of the student's roles as citizens, family members, consumers, and active daily participants in the business world. This course is designed to assist students in recognizing their financial responsibilities today and those they will encounter in the future. Topics will include budgeting, banking, consumer credit, stocks, bonds, mutual funds, retirement accounts, insurance, taxes, and other money management strategies.

AP CALCULUS AB**GRADE LEVEL:** 11-12**PREREQUISITES:** Pre-Calculus (MTH 401-402)**1 CREDIT
2 SEMESTERS****COURSE NUMBER:** MTH501-2
PATHWAY: BT/EMI/NRA

The aim of this course is to teach the mathematics of calculus, give a head start to first year freshmen attending college, and to train readers to use calculus effectively in their later academic and professional work. *Students taking AP Calculus will be required to take the AP Exam.*

This class is intended for the most serious mathematics student. It is designed for those who have shown superior achievement in a college preparatory curriculum. Pupils will learn the basic concepts of Calculus, namely differentiation and integration through a variety of functions. Using applications and theory, the student will gain further insight into the structure of calculus. The class will have opportunities to use technology in order to analyze real life applications and model data. The book used in this course closely follows the recommendations of the Committee on Mathematics of the Advanced Placement Program. *Students taking AP Calculus will be required to take the AP Exam*

**AP STATISTICS (only offered
EVEN years)****GRADE LEVEL:** 11-12**PREREQUISITES:** Algebra II (MTH 301-302)**1 CREDIT****2 SEMESTERS****COURSE NUMBER:** MTH511-2**PATHWAY:** All

AP Statistics is a college-level introductory statistics class and will only be offered in even school years..

This course will introduce students to the primary concepts and tools for collecting, analyzing, and drawing conclusions from data. Students will be exposed to four broad conceptual themes:

1. Exploring Data: Describing patterns and departures from patterns.
2. Sampling and Experimentation: Planning and conducting experiments.
3. Anticipating Patterns: Exploring random phenomena using probability and simulation.
4. Statistical Inference: Estimating information about populations from samples (polling, surveys, etc.).

Students will be required to take the AP Statistics exam.

Why should you take AP Statistics?

- Statistics is one of the most widely applied courses you will ever take. College majors that REQUIRE Statistics at most universities include: Social Sciences, Physical Sciences, Engineering & Mathematics, Nursing, PreMed, and Business. (Yep, just about everything.)
- It is a fresh start: You don't need to remember how to factor a polynomial, graph a sine curve, or prove that triangles are congruent. However, what you do learn you'll need to remember all year!
- It is a great preparation for college. The class is taught over a full year (instead of a semester, as in college) so you have more time to learn the material. The material is still college level, providing a challenge for even the best math student.
- You will never ask: "When will we ever use this?" Statistics is applied mathematics, not abstract mathematics.
- It is a challenging class that will teach you how to think critically about information and the way the world works.

**AP COMPUTER SCIENCE
PRINCIPLES**

1.0 CREDIT

COURSE NUMBER: MTH541-2

GRADE LEVEL: 9-12

2 SEMESTERS

PATHWAY: All

PREREQUISITES: Algebra 1

AP Computer Science Principles offers a multidisciplinary approach to the underlying principles of computation. The course will introduce students to the creative aspects of programming, abstractions, algorithms, large data sets, the Internet, cyber security concerns, and computing impacts. AP Computer Science Principles will give students the opportunity to use technology to address real-world problems and build relevant solutions. Together, these aspects of the course make up a rigorous and rich curriculum that aims to broaden participation in computer science.

AP COMPUTER SCIENCE A

1.0 CREDIT

COURSE NUMBER: MTH 531-2

GRADE LEVEL: 10-12

2 SEMESTERS

PATHWAY: All

PREREQUISITES: Algebra 1 and AP Computer Science Principles

AP Computer Science A is an introductory college-level computer science course. Students cultivate their understanding of coding through analyzing, writing, and testing code as they explore concepts like modularity, variables, and control structures. AP CSA is a Java programming course offered by the College Board. It includes content expected to be covered in an introductory college computer science course. As described by the College Board:

AP Computer Science A introduces students to computer science through programming. Fundamental topics in this course include the design of solutions to problems, the use of data structures to organize a large set of data, the development and implementation of algorithms to process data and discover new information, the analysis of potential solutions, and the ethical and social implications of computing systems. The course emphasizes object-oriented programming and design using the Java programming language.

MUSIC DEPARTMENT

MUSIC APPRECIATION

GRADE LEVEL: 9-12

PREREQUISITES: None

0.5 CREDIT
1 SEMESTER

COURSE NUMBER: MUS 631
PATHWAY: AC

Students will perform different “experiments” using all the various elements of music. Grades will be based off of class assignments, written reports, presentations and class projects.

THEATER PRODUCTION

GRADE LEVEL: 9-12

This is a one semester course designed to give our students the hands-on experience of producing live theater. From the designing of a set to the sale of tickets, students will develop a detailed understanding of the knowledge and dedication required to produce a live theatrical performance.

0.5 CREDIT
1 SEMESTER

COURSE NUMBER: GEN 305
PATHWAY: AC

CONCERT CHOIR

GRADE LEVEL: 9-12

PREREQUISITES: None

Open to all Carlson students, this un-auditioned choir reviews the basics of music theory, vocal production, expression, style, harmony and group (choral) singing in three and four-part format. Skills required in homophonic as well as polyphonic music are introduced. Repertoire includes folk music from a variety of cultures, holiday music, pop and art music from many centuries, in English as well as other languages. Evening concerts at the end of each trimester are required. Evaluation of students is based on concert attendance, daily participation, and bi-weekly quizzes.

1 CREDIT
2 SEMESTERS

COURSE NUMBER: MUS 601-2
PATHWAY: All

ADVANCED CHOIR “VOX”

GRADE LEVEL: 9-12

PREREQUISITES: None

This is an advanced choir ensemble open to grades 9-12 who have passed an audition process with the director. This class covers the following: advanced skills in vocal techniques; learning how to sight read music as an individual or small groups; participation in several concerts and contests throughout the year.

1 CREDIT
2 SEMESTERS

COURSE NUMBER:MUS 351-2
PATHWAY: All

JAZZ BAND

GRADE LEVEL: 10-12

PREREQUISITES: Audition/Permission from Instructor

Students in Jazz Band will be involved in the exploration of American Jazz Music. Students will learn the various aspects of Jazz music through listening, rehearsal and performance. There will also be a strong historical component to the course. This will give students a larger context to better understand their music. Grades will be based on a mixture of class participation, playing tests, performance evaluations, written projects and exams. This class includes some extracurricular performances that students will be required to attend including: Java and Jazz concert, Hard Rock Cafe performance, School Concerts, and other performances.

0.5 CREDIT
1 SEMESTER - 2ND

COURSE NUMBER: MUS 611
PATHWAY: All

MARCHING BAND
GRADE LEVEL: 9-12

0.5 CREDIT
1 SEMESTER

COURSE NUMBER: MUS 621
PATHWAY: All

PREREQUISITES: Audition with Director or SMS music program completion

The Carlson High School Marching Marauder Band is a high energy, high achievement performance ensemble! The Marching Marauders serve as the flagship musical ensemble for Carlson High School and the Gibraltar School District. Students will gain skills in leadership, personal responsibility, physical fitness, musical ability, time management, communication both interpersonal and artistic; team dynamics, and sportsmanship.

Members are expected to perform at all home football games, various marching competitions and special performances throughout the fall trimester. Members are also expected to attend all extra-curricular rehearsals – (Tuesday and Thursdays 6-9PM) and including Saturdays during the fall trimester. A schedule will be put forth in early May, preceding the season. Participation in BAND CAMP is required by all participants.

*Placement in the Drum-Line and/or Color Guard is by audition only in the late spring or early summer.

CONCERT BAND
GRADE LEVEL: 9-12

0.5 CREDIT
1 SEMESTER

COURSE NUMBER: MUS 622
PATHWAY: All

PREREQUISITES: Director Approval or SMS music program completion

This is a concert instrumental ensemble open to all grade levels without an audition. Students in this ensemble will work on instrumental technique fundamentals; music performance, music theory, and teamwork. There are 4 required performances outside of the normal school day. Grades are based off of class participation, playing tests, individual classwork and performance attendance.

WIND ENSEMBLE
GRADE LEVEL: 10-12 or Director Approval

0.5 CREDIT
1 SEMESTER

COURSE NUMBER: MUS 650
PATHWAY: All

PREREQUISITES: AUDITION ONLY -- DIRECTOR PERMISSION

Wind ensemble is an advanced instrumental ensemble where students will have an opportunity to play some of the classics and most modern of band repertoire. This is a limited instrumentation ensemble where there will mostly be only 1-2 players on part. Admission is by AUDITION and DIRECTOR PERMISSION ONLY.

BAND METHODS
GRADE LEVEL: (12TH ONLY)

0.5 CREDIT
1 SEMESTER

COURSE NUMBER: MUS 310
PATHWAY: All

This class is designed for Seniors who wish to explore the processes of band directing and teaching music. These students need to be a 4 year band member and a Senior. Admission to this course is by PERMISSION ONLY. students will learn how to run a band program, from the teaching of music, to the paperwork and people it takes to keep the program running.

PHYSICAL EDUCATION DEPARTMENT

LIFETIME FITNESS

GRADE LEVEL: 9-10

PREREQUISITES: None

During this semester course students will learn introductory skills in both aerobic and anaerobic fitness. Students will also participate in several lifelong sports with emphasis on skill development, teamwork, and strategy.

0.5 CREDIT

1 SEMESTER

COURSE NUMBER: HPE 101

PATHWAY: All

HEALTH

GRADE LEVEL: 9-10

PREREQUISITES: None

This class is required for ninth and tenth grade students. Units covered include: Conflict resolution, violence prevention, drug use and abuse, nutrition, mental illness, and the Michigan Model for healthy relationships including HIV/AIDS and STD education. In accordance with the law, parents have the choice to opt their son/daughter out of any unit with sexual information. This class involves homework, projects, quizzes and tests.

0.5 CREDIT

1 SEMESTER

COURSE NUMBER: HPE 103

PATHWAY: All

SPORTS TECH

GRADE LEVEL: 10-12

PREREQUISITES: Ninth Grade Physical Education (HPE 101 or 111)

This class is for CHS JV and Varsity student athletes who are looking to improve their aerobic and anaerobic capacities while polishing skills to their specific sports. Instructor signature is required.

0.5 CREDIT

1 SEMESTER

COURSE NUMBER: HPE 601

PATHWAY: All

GROUP FITNESS

GRADE LEVEL: 10-12

PREREQUISITES: Ninth Grade Physical Education (HPE 101 or 111)

This class is designed for students who want to build and improve physical fitness through various fitness activities such as cardio kickboxing, weight/resistance training, step aerobics, yoga, circuit training, jogging, boot camps, running bleachers, going to the metro park, weight room, TRX, fitness assessments, meal logs and stress reduction. Students will learn the five components of physical education including strength and muscular endurance, flexibility, cardiovascular fitness and body composition. This class has homework on Google classroom to help understand the purpose of the course.

0.5 CREDIT

1 SEMESTER

COURSE NUMBER: HPE 602

PATHWAY: All

TEAM SPORTS

GRADE LEVEL: 10-12

PREREQUISITES: Ninth Grade Physical Education (HPE101 or 111)

This class is designed for students who would like to maintain their current level of Physical Fitness, with a special emphasis on stress reduction and lifetime sports. Students will also learn the benefits of teamwork and communication by working together in various team sports.

0.5 CREDIT

1 SEMESTER

COURSE NUMBER: HPE 611

PATHWAY: All

STRENGTH & CONDITIONING

GRADE LEVEL: 10-12

PREREQUISITES: None

The overall purpose for the Strength & Conditioning Class is for all students to have an opportunity to improve themselves in respect to their overall health and wellness. Our goal is for students to become stronger, faster, and more flexible. Throughout the course, students will gain an understanding of proper and safe training techniques and develop an appreciation in fulfilling their own personal goals and maximize their athletic potential.

0.5 CREDIT

1 SEMESTER

COURSE NUMBER: HPE 603

PATHWAY: All

SCIENCE DEPARTMENT

EARTH SCIENCE

GRADE LEVEL: 9

PREREQUISITES: Grade 8 Science

EARTH SCIENCE A - In this course, students will utilize scientific practices to discover knowledge and overarching concepts related to Earth and space science. Students will recognize unifying themes that integrate the major topics of Earth and space science including Earth and its place in the universe, the solar system, plate tectonics, and physical geology. The curriculum integrates critical thinking and laboratory skills that stress the development of experimental design, detailed observation, accurate recording, data interpretation, and analysis.

EARTH SCIENCE B In this course, students will utilize scientific practices to discover knowledge and overarching concepts related to Earth and space science. Students will recognize unifying themes that integrate the major topics of Earth and space science including 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.

1 CREDIT

2 SEMESTERS

COURSE NUMBER: SCI 103-4

PATHWAY: All

BIOLOGY

GRADE LEVEL: 10

PREREQUISITES: Earth Science (SCI 103-104)

Biology 201 topics include an introduction to chemistry, biochemistry, cell structure and function, homeostasis and transport, photosynthesis, cellular respiration, cell reproduction, and an introduction to genetics. Biology 202 topics include DNA replication, gene expression, human genetics, DNA technology, evolution, and ecology.

1 CREDIT

2 SEMESTERS

COURSE NUMBER: SCI 201-2

PATHWAY: All

CHEMISTRY

GRADE LEVEL: 10-12

PREREQUISITES: Algebra I (MTH 101-102) and Biology (SCI 201-202)

Chemistry is the study of matter and the components of matter. Chemistry 301 starts with a brief overview of the metric system that is used throughout the class. The class then studies the components of the atom, electron arrangement, Periodic Law, chemical bonding, naming chemical compounds, writing chemical formulas, and studying chemical reactions. Chemistry 302 focuses on stoichiometry, gas laws, states of matter, concentrations of solutions, acids and bases, thermochemistry, oxidation reduction reaction, and an introduction to organic chemistry. Students who take this class should have a good mathematical background and an interest in a science related career.

1 CREDIT

2 SEMESTERS

COURSE NUMBER: SCI 301-2

PATHWAY: All

ADVANCED CHEMISTRY

GRADE LEVEL: 10-12

PREREQUISITES: Algebra I (MTH 101-102) and Biology (SCI 201-202) (pending approval)

Advanced chemistry is designed to prepare students for AP chemistry and/or introductory college chemistry. This course is created to progress at an advanced pace and cover more content than general chemistry. Please see the course description for Chemistry to view what is covered. Students interested in this course should have a strong math background and have completed Earth Science and Biology.

1 CREDIT

2 SEMESTERS

COURSE NUMBER: SCI 307-8

PATHWAY: All

FOOD SCIENCE

GRADE LEVEL: 11-12

PREREQUISITES: Completion of Biology and Chemistry (or Chem Com) with a C+ or better

Food Science will provide students with a vocabulary of nutrition and food science that will enable them to understand, discuss, and evaluate food topics. Students will learn about food allergies, food borne diseases, and identify food bacteria through lab. Students will expand their understanding of organic chemistry and how it relates to food.

0.5 CREDIT

1 SEMESTER

COURSE NUMBER: SCI 304

PATHWAY: HES

FORENSIC SCIENCE**0.5 CREDIT****COURSE NUMBER: SCI 305****GRADE LEVEL: 11-12****1 SEMESTER****PATHWAY: HES/HUS/AC****PREREQUISITES:** Earth Science A/B, Biology A/B, Chemistry A/B

Forensic Science is the science of crime. Evidence is collected at a crime scene in order to prove or disprove that a person is the perpetrator of a crime. Aspects of Physics, Chemistry, and Biology are used to provide proof that the perpetrator was present at a crime scene. Topics include: DNA electrophoresis, Blood Typing and Genetics, Visible and Latent Fingerprinting with Chemical Procedures such as Ninhydrin, Handwriting Analysis and Forgery Detection, Chromatography Analysis of Chemicals left at a crime scene such as lipstick on a cup left at a crime scene, Drug Analysis using Colorimetric Methods and Spectrophotometric Methods, Ballistics, Crime Scene Evidence Impressions, Scale Drawings of a virtual crime scene utilizing math skills with CAD Design renderings with collaborative help from our CAD design teacher, creative writing interpretation utilizing evidence from a virtual crime scene.

ANALYTICAL CHEMISTRY**0.5 CREDIT****COURSE NUMBER: SCI 303****GRADE LEVEL: 11-12****1 SEMESTER****PATHWAY: AC/BT/HUS/NRA****PREREQUISITES:** B- or better in Chemistry A and Chemistry B or an A in Chemistry in the Community A and Chemistry in the Community B.

Analytical Chemistry investigates the basic principles of qualitative and quantitative analysis. Laboratory work will emphasize the instruments and techniques of scientific investigations which an analytical chemist uses. This course utilizes practical laboratory experiences to help a student develop well-rounded analytical skills. The student will be required to keep a lab notebook as a skill to organizing and collecting data for the future. This course is highly recommended for students that are planning to take college chemistry.

PHYSICS**1 CREDIT****COURSE NUMBER: SCI 401-2****GRADE LEVEL: 11-12****2 SEMESTERS****PATHWAY: HES/EMI****PREREQUISITES:** C+ or better in Algebra II A and Algebra II B (MTH 301-302)

While it is not required, students are encouraged to take Chemistry prior to taking Physics. Physics is the science that studies the nature of matter, energy, and their relationships. Physics is the study of the mathematical models of how the world works and is the basis for all science and engineering. A Physics student should have a satisfactory knowledge of trigonometry and the use of a calculator. Students must be able to solve linear and quadratic equations without help to succeed in this course. This is a college preparatory science class. The following topics will be covered: mathematics for physics, motion of objects, forces and motion, forms of energy, energy transformations, electric charges, electromagnetism, waves, sound and light, electrical energy and circuits, heat and temperature, and nuclear energy.

ADVANCED PLACEMENT (AP)**1 CREDIT****COURSE NUMBER: SCI 501-2****BIOLOGY (offered ODD years****2 SEMESTERS****PATHWAY: HES/NRA****only)****GRADE LEVEL: 11-12****PREREQUISITES:** Chemistry (SCI 301-302)

This course will be offered in odd school years only. This course is designed to be the equivalent of a college introductory biology course taken by biology majors during their first year of college. This course will differ significantly from high school courses with respect to the kind of textbook used, the range and depth of topics covered the type of laboratory work done by students, and the time and effort required of students. The book used in this class will be a college-level text in terms of topics and reading level. The kinds of labs done by AP Biology students will be equivalent to those done by college students. *Students that take this class will be required to take the AP Biology Exam.*

The two main goals of AP Biology are to help students develop a conceptual framework for modern biology and to gain an appreciation of science as a process. The primary emphasis will be on developing an understanding of concepts rather than on memorizing terms and technical details. This emphasis includes using scientific inquiry, integration of biological themes, the application of biological knowledge, and critical thinking to environmental and social concerns.

The course will have three general areas of study: Molecules and Cells (25%), Heredity and Evolution (25%), and Organisms and Populations (50%) It is recommended that students taking this course have already completed Botany and Zoology.

ANATOMY **0.5 CREDIT** **COURSE NUMBER: SCI 601**
GRADE LEVEL: 10-12 **1 SEMESTERS** **PATHWAY: HES**
PREREQUISITES: Biology (SCI 201-202)

Anatomy is the study of the bodily structures of humans as revealed by dissection and separation of parts. The class entails lecture and laboratory work with microscope labs and dissections. The students will be required to know the skeletal and muscular structures of the human body, tissue level of organization, integumentary system and understand anatomical terminology. The class is offered as an introduction for students who may want to enter health care fields.

PHYSIOLOGY **0.5 CREDIT** **COURSE NUMBER: SCI 602**
GRADE LEVEL: 10-12 **1 SEMESTERS** **PATHWAY: HES**
PREREQUISITES: Biology (SCI 201-202)

Physiology is the branch of Biology that deals with normal functions of living organisms and their parts. This class entails lecture and laboratory work with microscope labs and dissections. The students will be studying the nervous system, circulatory system, respiratory system, digestive system, urinary system and understand anatomical terminology. The class is offered as an introduction for students who may want to enter health care fields.

ZOOLOGY **0.5 CREDIT** **COURSE NUMBER: SCI 613**
GRADE LEVEL: 10-12 **1 SEMESTER** **PATHWAY: HES/HUS/NRA**
PREREQUISITES: Biology (SCI 201-202)

Zoology is a dissection-based course in which the students study the history of animals. This course surveys the Animal Kingdom and animal-like protozoans from an evolutionary perspective. The taxonomy, diversity and ecology of all animals phyla will be studied with an emphasis on the anatomical structures and behaviors of each phylum including: animal-like protozoan, sponges, cnidarians, roundworms, flatworms, annelids, mollusks, arthropods, echinoderms, and all chordates. Major lines of evolution will be traced as characteristics of each animal are compared and contrasted. Lab work will involve dissection of selected, representative specimens, as well as work with some living specimens.

STEMENGINEERING **0.5 CREDIT** **COURSE NUMBER: SCI 615**
GRADE LEVEL: 9-12 **1 SEMESTER** **PATHWAY: EMI**
PREREQUISITES: 8th Grade Science

Stemengineering is a course that integrates science, technology, engineering, and mathematics into a blended learning approach based on real-world applications. STEM encompasses the process of critical thinking, analysis, and collaboration in which students integrate the processes and concepts in real world contexts. Students will experiment with the following systems: computer programming, product engineering, the engineering design process, applied chemistry, and content area reading and writing by completing open ended projects.

ASTRONOMY **0.5 CREDIT** **COURSE NUMBER: SCI 616**
GRADE LEVEL: 10-12 (PENDING APPROVAL) **1 SEMESTER** **PATHWAY: HES/HUS/NRA**
PREREQUISITES: Earth Science

Astronomy is the exploration of the universe beyond our planet. This course introduces students to the fundamental concepts of astronomy, including the study of celestial objects such as planets, stars, galaxies, and the universe as whole. Students will learn about the history of astronomy, the tools and methods used by astronomers, and the latest discoveries in the field.

ENVIRONMENTAL SCIENCE **0.5 CREDIT** **COURSE NUMBER: SCI 211**
GRADE LEVEL: 10-12 **1 SEMESTER** **PATHWAY: HES/HUS/NRA**
PREREQUISITES: Biology (SCI 201-202)

This course is designed to acquaint students with the basic principles of Ecology and Botany; how ecosystems work, biomes, and aquatic ecosystems, plant evolution and classification, and plant responses. Students will use this knowledge in the field in our outdoor classroom learning what a wetland is, trail surveys and water projects. Boots are a requirement for this class.

METEOROLOGY

GRADE LEVEL: 10-12

PREREQUISITES: Biology (SCI 201-202)

**0.5 CREDIT
1 SEMESTER**

COURSE NUMBER: SCI 111
PATHWAY: HES/HUS/NRA

This class is designed to get students familiar with the field of meteorology, to further understand the principles of data collection, weather patterns, climate and the weather in their neighborhoods. We will utilize our weatherSTEM and upload data to GLOBE. Some of the topics include; predicting weather, severe weather, solar energy, energy balance, and weather over time.

SOCIAL STUDIES DEPARTMENT

U.S. HISTORY & GEOGRAPHY

**1 CREDIT
2 SEMESTERS**

**COURSE NUMBER: SOC 201-2
PATHWAY: All**

GRADE LEVEL: 9

PREREQUISITES: None

According to the Michigan High School Social Studies Course Expectations, the “disciplined study of history and geography is vital and essential for citizens in a democratic society such as the United States.” As such, students in U.S. History and Geography “will learn about the American experience over time and space. They will encounter powerful and sometimes conflicting ideas while learning about people and events in different places and times. They will investigate our diverse and common traditions, and work to understand the complex interactions among various environmental, human, and social forces that have influenced and continue to influence America and Americans. Studying United States History and Geography connects us to people and events across time and space, illuminating the range and depth of human experience on grand as well as local scales. It involves an analytical study of the nation’s political ideals, or times and places where people or events challenged, violated, or expanded those ideas.” U.S. History and Geography begins with an overview of the foundational issues learned by students in middle school, then explores four major eras leading to the present day: The Development of an Industrial, Urban and Global United States, 1870-1930, The Great Depression and World War II, 1920-1945, Postwar United States, 1945 -1989, and America in a New Global Age, 1989 to the present. Assessment will be based on class discussions, activities, homework assignments, tests, and quizzes.

WORLD HISTORY & GEOGRAPHY

**1 CREDIT
2 SEMESTERS**

**COURSE NUMBER: SOC 101-2
PATHWAY: All**

GRADE LEVEL: 10-12

PREREQUISITES: None

According to the Social Studies High School Course Expectations, Michigan’s World History and Geography takes a global and comparative approach to studying the world and its past to develop greater understanding of the development of worldwide events, processes, and interactions among the world’s people, cultures, societies, and environment. The content expectations build upon the very best and most highly regarded standards, benchmarks, and courses in history and geography. The expectations are organized using both time and space to engage students in cross-temporal and cross-regional studies. Integrating geography and history, the content expectations are organized within historical eras and different geographic scales. That is, within each era students work at three interconnected spatial scales: the global, interregional and regional. The course will cover early civilizations beginning with the Agricultural Revolution and the like. From here, the growth and development of world’s religions will be an area of focus followed by a more specific approach of the world’s regions. The first semester will cover the years ranging from 300 to nearly 1800 C.E. /A.D. The second semester will cover 1800-Present. Students will use the Prentice Hall version of *World History* and will be assessed through tests, homework, quizzes and papers.

CIVICS

**0.5 CREDIT
1 SEMESTER**

**COURSE NUMBER: SOC 301
PATHWAY: All**

GRADE LEVEL: 10-12

PREREQUISITES: None

Civics is a semester-long course required for graduation that focuses on the fundamental aspects of the United States Government. Students will learn the roles and responsibilities of United States citizens and those who represent them in the governmental process. Students will learn how history has impacted our current system of government and how this system is continually progressing to meet the ever-changing needs of the American people. Assessment will be based on class discussions, activities, homework assignments, tests, and quizzes.

ECONOMICS
GRADE LEVEL: 10-12
PREREQUISITES: None

0.5 CREDIT
1 SEMESTER

COURSE NUMBER: SOC 302
PATHWAY: All

Economics is a course that will focus on the fundamental themes of Microeconomics as well as introducing the interdependence of the global economy through Macroeconomic studies. Students will be exposed to the basic economic concepts of Microeconomics including: scarcity and opportunity costs, the types of economic systems, supply and demand, market structures, and money and banking. In addition, the students will also be exposed to various Macroeconomic concepts such as: the measurement of an economics performance, monetary and fiscal policies, and the global economy. Many of these topics will be covered in a hands-on interactive approach, as well as through class discussions, notes, homework, a major project, quizzes, and tests.

CURRENT EVENTS
GRADE LEVEL: 11-12
PREREQUISITES:

0.5 CREDIT
1 SEMESTER

COURSE NUMBER: SOC 689
PATHWAY: All

In today's fast-paced world, understanding current events is crucial for informed citizenship and personal growth. This course empowers students to engage critically with the news, enhancing their media literacy skills while exploring the significance of current events in various contexts. Students will delve into local, national, and global issues, analyzing the influence of media on public perception and opinion. Learners will develop the ability to evaluate sources, discern biases, and differentiate between reliable information and misinformation. In addition to media literacy, the course includes a career exploration component. Students will research diverse industries, examining how current events impact different fields and considering potential career paths. This will provide real-world insights and inspire students to connect their interests with future opportunities. By the end of the course, students will be equipped with the skills to navigate the complexities of the modern media landscape while gaining a deeper understanding of how current events shape their world and future careers.

ADVANCED PLACEMENT (AP) **1 CREDIT**
U.S. HISTORY (APUSH)
GRADE LEVEL: 9 -12

2 SEMESTERS

COURSE NUMBER: SOC 501-2
PATHWAY: All

PREREQUISITES: Minimum 3.0 in SS & Language Arts, Teacher Approval; 3.75 and HS credit at 8th grade APUSH will be taught as an introductory-level college survey of U.S. History from the pre-Columbian civilizations to the present day. The material will be approached thematically with the intent of giving students a strong understanding of major events, trends, individuals, and groups in U.S. History. The course will center on a core textbook, the AP course outline, and many additional supplemental readings, including primary and secondary source documents. Additional mediums such as film, music, etc. will be employed. Students will be engaged in much interpretive analysis and critical thinking, discussion, and writing. Other emphases will be on the interrelationships of ESPI (Economic-Social-Political-Intellectual) developments in history, cause-and-effect relationships, and drawing parallels between past and current events. Assessments will be designed to test students' understanding of the material, their ability to defend their interpretation of the facts, and will mimic and therefore help prepare students for the AP Exam. Students will write many short essays in practice for the writing portion (particularly the Document-Based Question) of the AP Exam. Students can earn college credit for the course through the AP U.S. History Exam administered in May. *Students will be required to take the AP Exam.*

ADVANCED PLACEMENT (AP)
PSYCHOLOGY
GRADE LEVEL: 10-12

1 CREDIT
2 SEMESTERS

COURSE NUMBER: SOC 511-2
PATHWAY: All

PREREQUISITES: Introduction to Psychology; Teacher Approval/3.0 in SS & Science
This course will look at the scientific study of behavior and the underlying causes of human behavior. Throughout the course, we will look at the biological and cognitive process associated with behavior along with the professional study of these processes. Additionally, the course will explore the theories and collected knowledge associated with human behavior. In the first semester, the course will focus on the history of psychology, methods of research and ethics, the biological study of the brain, sensation and perception, consciousness, learning and memory. The second semester will look at motivation and

emotion, cognitive development, personality, intelligence and psychological testing, stress and health, abnormal psychology and the treatment of psychological disorders and social behavior. Students will be assessed through homework, tests, quizzes, papers and participation in discussions. This course includes an online component, Blackboard, which requires students to have a basic understanding of computers and discussion forums.

This is a college-prep elective and will challenge students to understand abstract concepts and ideas. This class will require active participation by students and will benefit those who hope to continue their education beyond high school in every field of study. College credit for the course can be earned by students through the A.P. Psychology Exam administered in May. *Students are required to take the exam.*

**ADVANCED PLACEMENT (AP)
UNITED STATES &
COMPARATIVE GOVERNMENT**

**1 CREDIT
2 SEMESTERS**

**COURSE NUMBER: SOC 523-4
PATHWAY: All**

GRADE LEVEL: 10-12

PREREQUISITES: Teacher Approval/3.0 in SS

AP U.S and Comparative government is a year-long course designed to teach students to understand and analyze important concepts relating to a variety of governmental systems. The course looks at the United States and seven other countries (the United Kingdom, China, Russia, Iran, Mexico, Nigeria, and Lithuania) as a basis for comparison with an emphasis on the American system of government and politics. As a college-level course, students will be required to think and perform at a higher level and should expect high level readings on a regular basis. Additionally, students will be expected to monitor a variety of news sources on a daily basis and be prepared to report back. This course will prepare students to take two AP* exams, United States Government and Politics and Comparative Government and Politics. This is a college-prep elective and will challenge students to understand abstract concepts and ideas. This class will require active participation by students and will benefit those who hope to continue their education beyond high school in every field of study. College credit for the course can be earned by students through the A.P.* United States Government and A.P.* Contemporary Govern Exam administered in May. *Students are required to take this exam.*

WORLD WARS (even years only)

**0.5 CREDIT
1 SEMESTER**

**COURSE NUMBER: SOC 603
PATHWAY: All**

GRADE LEVEL: 11-12

PREREQUISITES: World History & Geography (SOC 101-102) and American History (SOC 201-2)

This course focuses on the defining events of the 20th century – World War I and World War II. Beyond the horrific death and destruction that resulted from these conflicts, the events of the era drastically changed the course of world history and largely gave rise to the postwar world order that still exists today. This course begins at approximately 1900 with an examination of the factors that led to the First World War and concludes in the late 1940s with the beginnings of the arms race and the Cold War. The course will employ a holistic approach: political, economic, military, social, and other factors will be examined. This class will be taught to give students a greater understanding and appreciation of the World Wars and to touch upon aspects of the period that are not expanded upon in American and world history courses. This course will not only focus on the military conflict, but also explore the effects these events had on both civilian existence and the role of government in various nations. Assessment will be based on class discussions, activities, homework assignments, tests, and quizzes.

HISTORY OF MYTH, LORE, and LEGEND

**0.5 CREDIT
1 SEMESTER**

**COURSE NUMBER: SOC 607
PATHWAY: All**

GRADE LEVEL: 10-12

History of Myth, Lore, and Legend (MLL)- This course focuses on the social, cultural, ideological and historical aspects of world myths, lore and legends. This course teaches students how to inspect, think about, discuss and explain the possible functions of myth in society. History of Myth, Lore, and Legend will teach students to examine the common archetypal characters of world myth and how world myths follow a common pattern (monomyth). The course will examine and interpret myths from various time periods and geographical regions and how those myths are reflective of their cultures. The course will even analyze modern American mythology (including urban legends and superheroes) and how and why they reflect on our society. Various world mythologies that will be examined will include: Mesopotamian, Egyptian, Greek, Roman, Asian, Native American, Medieval European, and Modern American mythology.

THE PRESIDENTS
GRADE LEVEL: 10-12

0.5 CREDIT
I SEMESTER

COURSE NUMBER: SOC 608
PATHWAY: All

This course is designed to offer a comprehensive exploration of each president in American history and their profound impact domestically and globally. This course will examine the lives, policies, and legacies of every U.S. president, providing students with an understanding of the individuals who have shaped the nation. From the founding fathers to contemporary leaders, students will analyze the political, economic, and social contexts in which each president served, examining how their decisions influenced the lives of American citizens as well as the entire world. Through a multifaceted approach, "The Presidents" class seeks to foster critical thinking, historical analysis, and a deeper appreciation for the complexities of presidential leadership in the United States.

HISTORY OF SOCIETY & CULTURE
Ancient World to Renaissance

0.5 CREDIT
1 SEMESTER

COURSE NUMBER: SOC 681
PATHWAY: All

GRADE LEVEL: 10-12

Offered even years only

PREREQUISITES: World History or US History

History of Society and Culture 1 Ancient World to European Renaissance (HSC_1) This course looks at the political and social growth of significant eras of world history from a historical and cultural perspective. The cultural aspect include: art, architecture, mythology and literature. This course will inspect the diffusion and amalgamation of the political and social structure of the Western world. Students will be exposed to various visual art styles including paintings and sculptures; and closely examine the works for their form and content. We will analyze and compare stories from the first myths and epic stories to the modern novel and major motion pictures. The course will explore important man-made structures for the Egyptian Pyramids, European Gothic Cathedrals to modern architectural marvels found throughout the modern world. This class will give students a greater empathy and appreciation of the diverse cultures and civilizations both past and present; as well as expand on many topics covered in World History and Geography.

INTRO TO PSYCHOLOGY

0.5 CREDIT
1 SEMESTER

COURSE NUMBER: SOC 651
PATHWAY: All

GRADE LEVEL: 10-12

PREREQUISITES: Biology B (SCI202)

This course will look at the foundations of modern psychology. Introduction to Psychology will focus on the scientific methods used in psychology with regards to research and the ethical issues that face psychologists. The class will look at the biological components of psychology including the brain and nervous system. Other topics covered in the course include sensation, perception, motivation and emotion. The psychology of stress and the role it has on health will also be examined. Students will be assessed through homework, tests, quizzes, papers and participation in discussions. This course includes an online component, Google Classroom, which requires students to have a basic understanding of computers and discussion forums. This course is the foundation of psychology and is required for any student who wishes to enroll in either Developmental Psychology or Cognitive Psychology.

POSITIVE PSYCHOLOGY

0.5 CREDIT
1 SEMESTER

COURSE NUMBER: SOC 655
PATHWAY: All

GRADE LEVEL: 10-12

PREREQUISITES: Completion of 9th grade

This course provides an introduction to the study of topics related to happiness and the positive aspects of the human experience. The first part of the course will focus on the basic areas of research in positive psychology and the methods that researchers use to study happiness, while the second half will broaden the focus to include big-picture issues and real-world application. By the end of this course, students will have an understanding of key concepts in positive psychology along with hands-on experience with many of these concepts. In the end, students will gain experience putting scientific findings and theories into real-world practice.

INTRODUCTION TO PHILOSOPHY
(Even years only)

0.5 CREDIT
1 SEMESTER

COURSE NUMBER: SOC 680
PATHWAY: All

GRADE LEVEL: 11-12

PREREQUISITES: NONE

Philosophy looks at the development of human thought and beliefs. The class looks at how our system of beliefs and ethics has emerged over time and how many modern ideas were developed. Introduction to Philosophy will look at the concepts of being, logic, and ethics with each student developing their own philosophical viewpoint on life. Students will be exposed to a variety of ideas within philosophy and will learn how to apply their learning to their lives. Students will be assessed through quizzes, homework, class discussions and journal writings.

HISTORY ON FILM
(Odd years only)

0.5 CREDIT
1 SEMESTER

COURSE NUMBER: SOC 605
PATHWAY: All

GRADE LEVEL: 10-12

PREREQUISITES: NONE

History on Film looks at United States history through film. Students will examine ways of viewing film in its cultural, social, and historical context to better understand how life throughout the decades is portrayed on film. In this first section, the course will look at the early history of film through the films of the 1980s. Students will analyze films to determine historical elements of the films and the role that movies play in understanding the cultural history of a time.

ANCIENT HISTORY
(Odd years only)

0.5 CREDIT
1 SEMESTER

COURSE NUMBER: SOC 686
PATHWAY: All

GRADE LEVEL: 10-12

PREREQUISITES: NONE

Beginning with the rise of ancient civilizations (10,000 B.C) to the Age of Exploration (14th Century), Ancient History will present lessons on how early civilizations of the world developed and interacted with each other. This course will provide students with valuable "background" information leading up to where World History A begins.

TECHNOLOGY DEPARTMENT

TECH, TOOLS, AND TRADES: DIY

0.5 CREDIT

COURSE NUMBER: TEC 410

GRADE LEVEL: 9-10 (PENDING APPROVAL)

1 SEMESTER

PATHWAY: BT/EMI

PREREQUISITES: None

This class will give you an overview of all that you need to be prepared to own your own home one day. The course will give you an introduction to basic tools and how to use them, guide you through basic home maintenance projects, introduce you to woodworking, and show how to do basic construction. In this class you'll do projects such as creating backyard games, building a doghouse, installing basic electrical outlets, learning how to do drywall, flooring, and tile, and installing a sink. This hands-on class will get you moving, building and creating. This might be the most useful class you ever take!

INTRO TO DIGITAL MEDIA ARTS

0.5 CREDIT

COURSE NUMBER: TEC 420

GRADE LEVEL: 9-12

1 SEMESTER

PATHWAY: BT/AC

PREREQUISITES: None

This course will cover design, shooting, and editing of various films. Students will use part of the class to produce and post content to our new large video screen on the football field, while learning operations and functionality of the screen. Students will learn how the shots they choose and publish affect the live event happening in the stadium. Students will be part of a crew that works on these highlight films during class. Opportunities to shoot close contact from the games may be available. This will be a hands-on immersive class for those thinking about a career in sports television and film. Students will use the Adobe Suite and Final Cut Pro for their productions.

GAME DESIGN

0.5 CREDIT

COURSE NUMBER: TEC 421

GRADE LEVEL: 9-12

1 SEMESTER

PATHWAY: All

PREREQUISITES: None

This course is for anyone who loves gaming and wants to design and build original games from scratch. Students learn how to use popular game-development software to create engaging, interactive games in a variety of styles. After learning about game genres, students learn about all aspects of the game-design process. From there, it's on to a series of increasingly challenging hands-on projects that teach all the elements of successful game development. This course provides a solid foundation in the essentials of game design.

VOCATIONAL COURSES

DIGITAL MEDIA/WEB DESIGN

COURSE NUMBER: GB01-2

PREREQUISITES: None

2 SEMESTERS

PATHWAY: BT

This course begins with an introduction to html5 and other web design languages. Students will create and design web sites through the use of cascading style sheets, as well as JavaScript and Dynamic html. In addition, web site creation through available software programs will be taught along with the necessary technology, services, and marketing of an E-commerce site. Graphic Design through the use of Photoshop CC will allow the creation, manipulation and enhancement of digital images and the creation of effective graphics in both business and personal situations from scratch or existing components. Finally, all three components will be combined in a final project where students create an actual website. Web Design Certification is available to all students who complete the full year. Students interested in careers as a Web Page Developer and/or Graphic Design would benefit from this course.

MARKETING I

COURSE NUMBER: 750GB01-2

GRADE LEVEL: 10-12

4 SEMESTERS

PATHWAY: All

PREREQUISITES: Marketing A, Application and interview

The ultimate goal in marketing is to satisfy consumers through the attainment of organizational goals. In this course, students will study the four main areas of marketing and research careers in retailing. Much of the work for this class is project oriented and performed in teams. Students will run the day to day operations of Carlson's school store. Students will study how to research the market, develop a plan and make it operation, running the school store, accounting for profits, promoting the business, securing the store, having a customer focus, being an effective manager, and achieving personal success. Student daily school store tasks will include store management, cashiering, security, food processing/handling, and inventory. Additionally, students will be hands-on with various media applications and equipment in the Peppy Print Shop to design and print merchandise and products. Students are responsible for the accuracy and invoicing of orders and timely delivery of goods printed and sold. Students will be required to be a member of DECA.

MARKETING II

COURSE NUMBER: 752GB01-2

GRADE LEVEL: 11-12

4 SEMESTERS

PATHWAY: All

PREREQUISITES: Marketing A and B (BUS 201 & 202) or Vocational Marketing I (750GB)
Application and interview

Marketing II fulfills 1.0 senior math credit if both years are completed

Students in Marketing II will be responsible for managing the day-to-day operations of Carlson's school store, the *Marauders' Galley*. Responsibilities will include: ordering products, setting prices, stocking merchandise, creating displays, maintaining financial records, developing promotional strategies, practicing management techniques, and selling merchandise. Students will also study entrepreneurship and discover how to create a business from its initial start-up and manage the responsibilities and risks involved. Additionally, students will be hands-on with various media applications and equipment in the Peppy Print Shop to design and print merchandise and products. Students are responsible for the accuracy and invoicing of orders and timely delivery of goods printed and sold. Students will be required to be a member of DECA.

DIGITAL MEDIA & FILM I

COURSE NUMBER: 950GB01-2

GRADE LEVEL: 11-12

4 SEMESTERS

PATHWAY: BT/AC

PREREQUISITES: None

This course is a study of techniques and styles in Television Production with an emphasis on digital cameras and digital editing. Students will do projects such as a mini movie as a group and individually. DVD creation and Adobe Photoshop will be touched on. Quizzes and tests will be given throughout the course. Students should be able to shoot and edit video at an intermediate level by the end of class. A certificate of completion will be awarded at the end of this course. The objectives of the class are to learn I-Movie and Final Cut Pro software and professional video shooting techniques. Assessment is based on projects, tests, and quizzes. Students should have an entry-level understanding of computers. Student

will be required to have interaction on camera and behind the camera and will need to purchase media for class purposes.

DIGITAL MEDIA & FILM II

COURSE NUMBER:952GB01-2

GRADE LEVEL: 12

4 SEMESTERS

PATHWAY: BT/AC

PREREQUISITES: Video Productions I (950GB)

This course is a study of advanced techniques and styles in Television Production with an emphasis on digital cameras and digital editing. Students will do projects in a small group and individually. DVD creation and Adobe Photoshop will be taught. Quizzes and tests will be given throughout the course. Student should be able to shoot and edit video at an advanced level by the end of class. Students will be required to show strong editing and shooting skills. A certificate of completion will be awarded at the end of this course. The objectives of the class are to master Final Cut Pro software and professional video shooting techniques. Assessment is based on projects, tests, and quizzes. Students should already have a good understanding of computers. Students will be required to have a number of interactions on camera and behind the camera, and they will need to purchase media for class purposes.

CONSTRUCTION TRADES I

COURSE NUMBER: 710GB01-2

GRADE LEVEL: 11-12

4 SEMESTERS

PATHWAY: BT/EMI

PREREQUISITES: None

This is a course that is designed to prepare students for a career in the extremely diverse Construction Trades field. Not only will this course prepare students for job openings for entry level positions in the fields of Carpentry, Electrical, Plumbing, Masonry, Concrete Placement, and HVAC; it will also be of great benefit to those who wish to pursue careers in the professions of Architecture, Civil Engineering, Surveying, Construction Supervision and Management, Estimating, and careers as Licensed Builders and Renovators. The instructor uses many different methods of instruction that are aimed at achieving topical knowledge, mathematical precision, and physical skills, all in a way that today's students will find rewarding and fun.

CONSTRUCTION TRADES II

COURSE NUMBER:712GB01-2

GRADE LEVEL: 12

4 SEMESTERS

PATHWAY: BT/EMI

PREREQUISITES: Construction Trades I and Vocational Application Form

This advanced level course deals directly with the application of the skills and knowledge needed in Construction by putting the skills and knowledge to use in real residential and commercial building projects. Even though this course is truly "hands-on" in nature, it still delivers academic level knowledge through deeper real life applications. If students complete both Construction Trades I & II, they are awarded a senior year Mathematics credit and a Visual and Performing Arts credit. This program offers articulated credit with several colleges.

OFF-SITE VOCATIONAL COURSES

DOWNRIVER CAREER TECHNICAL EDUCATION

The objective of a career technical class is to provide a very sophisticated training experience for the student while one is still in high school, so upon graduation one might directly enter the labor market or continue on for advanced training in the chosen career area. Toward this end, the career technical programs have adopted the curriculum developed by the State of Michigan, which provides for training that has been identified by being necessary for each specific occupational area.

AGRISCIENCE I/ZOOLOGY (YEAR LONG CLASS)

LOCATION: Airport

PREREQUISITE: 10th – 12th grade

This program focuses on the general principles and practice of agricultural research and production designed to prepare students to apply this knowledge to the solution of practical agricultural problems. It includes instruction in basic animal, plant and soil science; animal husbandry and plant cultivation; soil conservation; natural resources and agricultural operations such as farming, ranching and agricultural business.

FFA participation is mandatory and the course has been designed for those students who want a true agriscience experience. FFA participation will develop leadership, cooperation, career, and personal skills which are vital in today's world.

AGRISCIENCE II/BOTANY (YEAR LONG CLASS)

LOCATION: Airport

PREREQUISITE: 10th – 12th grade

This program focuses on the general principles and practice of agricultural research and production designed to prepare students to apply this knowledge to the solution of practical agricultural problems. It includes instruction in basic animal, plant and soil science; animal husbandry and plant cultivation; soil conservation; natural resources and agricultural operations such as farming, ranching and agricultural business.

FFA participation is mandatory and course has been designed for those students who want a true Agriscience experience. FFA participation will develop leadership, cooperation, career, and personal skills which are vital in today's world.

ARCHITECTURAL DRAFTING I AND II

LOCATION: Airport

GRADE LEVEL: 11-12

This program prepares students to apply technical knowledge and skills to create products using techniques of precision craftsmanship or technical illustration. It provides a broad foundation of applied academics and transferable basic skills, plus occupationally specific technical skills required to function in an increasingly complex and highly technological society and workplace. It includes instruction in technical skills and advanced computer software and hardware; creation of graphic representations and simulations in support of engineering projects; engineering graphics; two-dimensional and three dimensional engineering design; solid modeling; engineering animation; computer-aided drafting (CAD) and auto-CAD techniques; and manufacturing design projects.

**AUTO BODY/COLLISION
REPAIR I & II**

LOCATION: Huron

GRADE LEVEL: 11-12

PREREQUISITES: Vocational Application Form

This program prepares students to apply technical knowledge and skills to repair, reconstruct, and finish automobile bodies, fenders, and external features. It provides a sequence of learning experiences related to the National Automotive Technicians Education Foundation (NATEF), ASE Education Foundation and repair categories requiring certification. Learning activities in the classroom, laboratory, shop, and actual work setting are combined to provide students with the opportunity to become knowledgeable of nomenclature; safety principles and practices; and job-entry level skills.

LOCATION: Airport, Trenton or
Huron

AUTO TECHNOLOGY I & II

GRADE LEVEL: 11-12

PREREQUISITES: None

This program prepares students to engage in the servicing, maintenance, adjustment, and repair of automotive components and systems. It also provides a sequence of learning experiences related to the National Automotive Technicians Education Foundation (NATEF), ASE Education Foundation, and repair categories requiring certification. This program may include diesel engine repair. Learning activities in the classroom, laboratory, shop, and actual work setting are combined to provide students with the opportunity to become knowledgeable of nomenclature; safety principles and practices; and job entry level skills in disassembling, assembling, inspecting, repairing, and replacing components or systems

CONSTRUCTION TRADES I & II

LOCATION: Carlson

GRADE LEVEL: 11-12

PREREQUISITES: None

This program prepares students to apply technical knowledge and skills in the building, inspection, and maintenance of structures and related properties. It includes instruction in carpentry, electrical and power transmission installation, building/construction finishing, inspection, lay out, cut, fabrication, erection, installation, and repair of wooden structures and fixtures using hand and power tools, technical mathematics, framing construction materials and selection, job estimating, blueprint reading, foundations and roughing-in, finishing carpentry techniques, and applicable codes and standards.

LOCATION: Riverview

COSMETOLOGY I & II

GRADE LEVEL: 11-12

This program prepares students to cut, trim, and style scalp, and facial hair; apply cosmetic preparations; perform manicures and pedicures; massage the head and extremities; and prepares students for practice as licensed cosmetologists in specialized or full-service salons. It includes instruction in hair shampooing, cutting and styling; manicures; pedicures; facial treatments; chemical applications; esthetics; shop management; sanitation and safety; customer service; and applicable professional and labor laws and regulations.

LOCATION: Trenton

CRIMINAL JUSTICE I & II

GRADE LEVEL: 11-12

This program prepares students for the criminal justice system. Law enforcement officers protect lives and property. Detectives and criminal investigators gather facts and collect evidence of possible crimes. Law enforcement officers' duties depend on the size and type of their organization. This program is designed to provide the academic and professional training necessary for careers in these fields

CYBERSECURITY I & II**LOCATION:** Carlson/Henry Ford College**GRADE LEVEL:** 11-12

The courses offers a mid-level understanding of the technological needs, threats, and vulnerabilities of hardware, software, operating systems, networks and the Internet. Students will examine operating systems, networks, tools and protocols needed to navigate, use, and manage security technologies as well as gain insight into the legal, social, and political dynamics of the cyber universe. Designed for students interested in cyber defense or IT professionals seeking a fundamental understanding of cybersecurity.

DENTAL OCCUPATIONS I**LOCATION:** Woodhaven**GRADE LEVEL:** 11-12

This course is a combination of subject matter and experience designed to prepare the student to assist the dentist at chair side, to perform reception and clerical functions, and to carry out selected dental laboratory work. Objectives are: (1) to prepare high school students for full-time employment in the dental office occupational area upon completion of the program or to encourage continuing education or training, (2) to provide each student with broad entry skills in a cluster of related jobs. Entry skills include job-finding skills, general work habits, and social attitudes.

DENTAL OCCUPATIONS II**LOCATION:** Woodhaven**GRADE LEVEL:** 12**PREREQUISITES:** Dental Occupations I

This course will be a continuation of Dental Occupations I. It will offer further training in dental assisting techniques including such procedures as radiographic techniques, denture repairs, making temporaries and dental office emergencies. It will also offer a chance for a student to obtain some work-related experience.

ENGINEERING DRAFTING I & II**LOCATION:** Flat Rock**GRADE LEVEL:** 11 - 12

Engineering Drafting (using CAD) is a course designed as an introduction to computer graphics using the AutoCAD software. Students will learn to use the computer components, terms and commands associated with the AutoCAD system. Students will work with multiview, detail/assembly, exploded and pictorial assembly drawings. This class will involve becoming familiar with the materials and processes of the machine trades. All students will develop a complete set of prints (detail/assembly and pictorial assembly) for a jig or fixture and have them printed and plotted

FIRE & EMT I & II**LOCATION:** TBD**GRADE LEVEL:** 11 - 12

Students will learn the basics of safety, fire prevention and public N/A N/A education, fire control, and rescue and extrication. Students will use industry specific equipment, such as fire trucks, hoses, protective clothing, fire service hand tools, and The Jaws of Life to put theory into practice as they learn the skills necessary to begin a career with a fire department. Students are exposed to a Chain of Command style of instruction where they are taught to follow orders, work as a team, and practice routine skills on a daily basis. Students take biweekly field trips to Wayne County Community College District's Michigan Institute for Public Safety Education to complete practicum hours required for certification. This state-of-the-art, 10-acre, \$6 million facility houses a 5-story fire tower, a 12,000 square-foot training center, a 50,000 square-foot driving training area, and a man-made lake for water rescue simulations

GRAPHIC ARTS I**LOCATION:** Southgate and Woodhaven**GRADE LEVEL:** 11-12

In the printing industry there are occupations which deal with all aspects in the development of printed material from an initial idea to the actual production. During this first year, the students will spend one semester in a design and layout lab. Their studies will include line drawing, design drawing, layout, paste-up, typesetting and photography. They will also spend one semester in the production lab where they will be involved in binding, silk screen printing, offset printing, press operations, block printing and plate making.

GRAPHIC ARTS II**LOCATION:** Southgate and Woodhaven**GRADE LEVEL:** 12**PREREQUISITES:** Graphic Arts I

Students will spend an entire year in the production lab involved in press operation, contact printing, dark room activities, layout, design work, plate making, multiple color operations, digital photography, photo editing, web page design, and digital video.

HEALTH OCCUPATIONS I**LOCATION:** Grosse Ile, Flat Rock & HFWH**GRADE LEVEL:** 11-12**PREREQUISITES:** 'C' or better in Algebra I, 'C' or better in Biology or Chemistry, orientation requirements fulfilled, physical exam, TB test, and immunization record

This course will provide students with the basic theory and clinical experience for entry level positions in a physician's office, hospital or outpatient clinic. Students will participate in classroom learning consisting of both theory and hands-on demonstrations and practice, as well as have the opportunity to participate in internships/job shadow experiences with local health care professionals. The curriculum provided allows students to explore their interest in many fields within the medical profession, including but not limited to: nursing, medicine, advanced practice nursing, physician's assistant, laboratory science, emergency medical technology, radiology, surgical technology, and nuclear medicine.

HEALTH OCCUPATIONS II**(Pharmacy Tech)****LOCATION:** Flat Rock**GRADE LEVEL:** 12**PREREQUISITES:** Health Occupations I, Health Occupations II Application and approval of the instructor.

This course will be a continuation of Health Occupations I with a focus on Pharmacy Technician training. Students will participate in classroom learning that will focus on pharmacy operations and the core responsibilities of a pharmacy technician. Topics such as medication review, dosage forms, drug interactions, pharmacy calculations, federal laws and maintain patient records. Students will have an opportunity to participate in internships/job shadow experience with local pharmacy professionals.

HEALTH**OCCUPATIONS II****GRADE LEVEL:** 12**(CNA)****LOCATION:** Grosse Ile**PREREQUISITES:** Health Occupation II Application

The course focuses on information and skills applicable to a person pursuing any health career. Information includes: exploring the many careers in the health field, basic anatomy and physiology, first aid, communication skills, medical terminology, employability skills, and understanding human behavior. Through a classroom laboratory experience and a clinical experience giving patient care in a local health care facility, the student is able to learn the basic skills necessary to be employed in the health occupation field.

HEALTH OCCUPATIONS II**LOCATION:** Wyandotte Hospital**GRADE LEVEL:** 12**PREREQUISITES:** Health Occupations I and Health Occupations II Application

This course operates entirely at Henry Ford-Wyandotte Hospital on a semester basis. Each student who takes part in the course will work weekdays for one semester. After proper instruction, each student will be expected to perform the tasks usually assigned to a nurse's assistant. The students must report to work in the proper attire, i.e. white uniform and white shoes. Upon completion of this course the student should be prepared for nursing assistant work.

HOSPITALITY I & II**LOCATION:** Riverview**GRADE LEVEL:** 11-12

This program focuses on preparing students for a variety of jobs within the food service industry. It includes instruction in food preparation, cooking techniques, equipment operation and maintenance, sanitation and safety, communication skills, applicable regulations, and principles of food service management

HVAC**LOCATION:** Henry Ford College**GRADE LEVEL : 11-12**

This program prepares students to apply technical knowledge and skills to repair, install, service and maintain the operating condition of heating, air conditioning, and refrigeration systems. It includes instruction in diagnostic techniques; the use of testing equipment; and the principles of mechanics, electricity, and electronics as they relate to the repair of heating, air conditioning and refrigeration systems.

INFORMATION TECHNOLOGY:**LOCATION:** Airport**Computer Information System****Administrator I and II****GRADE LEVEL:** 11-12

PREREQUISITES: Junior status and on course to graduate. (*Seniors may be admitted on a space available basis.),GPA of 2.0 or higher in core classes, attendance history meets the standard of the sending school district

IT: Computer Information System Administration is a two-year DCTC program. By the completion of the two-year program, students will have a Computer Information Systems Introductory Certificate and 28 credits towards an Associate's Degree at Schoolcraft College. This program prepares the student for entry level positions supporting users of microcomputer components of the operating system. The Computer Information Systems Introductory Certificate introduces students to the operating system and concepts surrounding programming logic. It is predicted that Information Technology jobs will be in high demand in Southeast Michigan. This program will be located at Airport High School.

INTRODUCTION TO EDUCATION I**LOCATION:** Grosse Ile**GRADE LEVEL:** 11-12

PREREQUISITES: Attend Orientation Meeting with student and parent, immunization records, TB test and physical

The first year course introduces the unique characteristics of the child, develops respect for children, and guidance skills that help them grow and develop. The student will gain knowledge that enables him/her to decide whether working in the field of education is a suitable, personal career goal; develop and show responsibility in work performance; learn how to study the growth and development of children; recognize the physical, social, emotional, and intellectual abilities and needs of children; understand how children learn and the importance of play in their development; learn how parents and teachers influence the growth and development of the child. The student will gain this knowledge through classroom work and field placement experiences in a preschool and elementary setting.

INTRODUCTION TO EDUCATION II**LOCATION:** Grosse Ile**GRADE LEVEL:** 12

PREREQUISITES: Introduction to Education I and approval of the instructor

The second year course will introduce the unique characteristics of the teaching field through lesson planning, classroom management, technology and field placement experiences. The student will continue to learn about the field of education through observation and field experience.

JROTC**LOCATION:** Southgate**GRADE LEVEL 10-12**

JROTC is a program designed to motivate young people to become better citizens. The program of instruction helps today's students develop goal setting and communication skills as well as leadership skills in preparation for the postsecondary environment. The JROTC curriculum known as Leadership Education and Training (LET) is a developmental program instructed within the framework of military organization and discipline. Physical fitness is a required activity as well as drill and ceremony (marching).

MACHINE TRADES I and II**LOCATION:** Southgate**GRADE LEVEL:** 11-12

This program provides students with the opportunity to obtain skills with Computer Numerical Controlled equipment as part of an Engineering curriculum. Students enrolled in the program will receive training on the latest equipment used in the modern manufacturing environment at Henry Ford College. Students will learn on HAAS Computer Numerical Control lathes, mills, along with a wide variety of manual machine tools. Heat treating, harness testing, quality control techniques utilizing Coordinates Measuring Machines and Statistical Process Control will be introduced. The courses required will be in-line with the Henry Ford MAT2 program offerings which greatly improve a student's employability opportunities. The classes can be used as a building block toward an Associate in Applied Science degree.

MECHATRONICS I and II**LOCATION:** FRAP**GRADE LEVEL:** 11-12

PREREQUISITES: Junior status and on course to graduate. (*Seniors may be admitted on a space available basis.),GPA of 2.0 or higher in core classes. Attendance history meets the standard of the sending school district & additional prerequisites may be required by Henry Ford College.

Mechatronics is a two year program that combines both principles and skills from several areas vital to modern day manufacturing. Electrical, Mechanical, Fluid (Hydraulics and Pneumatics), Computer Control and Automation/Robotics systems are included in Mechatronics. Through a combination of classroom and intense laboratory exposures, students are prepared for entry into a range of career opportunities throughout the manufacturing, healthcare, architecture and other sectors of the economy.

In cooperation with Henry Ford College, the successful Mechatronics student will finish high school having completed 29 hours of undergraduate credit. Should a student choose to, they can complete an Associate's Degree at HFC within one year of high school graduation. Pathways to apprenticeships will also be available to those who qualify.

WELDING I**LOCATION:** Flat Rock & Woodhaven**GRADE LEVEL:** 11-12

This course specializes in lab work and shop experience concerned with all types of metal welding, brazing, and flame cutting.

WELDING II**LOCATION:** Flat Rock & Woodhaven**GRADE LEVEL:** 12

This course covers advanced arc and oxyacetylene procedures with as much practical experience as possible. Instruction emphasizes properties of metals, blueprint reading and welding symbols.