

Gibraltar School District

OSCAR A. CARLSON HIGH SCHOOL

Course Description Guide
2011-2012

GIBRALTAR PUBLIC SCHOOLS



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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.

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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

For purposes of phasing-in the trimester schedule, the following are the credit requirements for each graduating class:

Graduating class of 2012 and later: 28 out of 30 possible credits

The Class of 2011 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	

Carlson High School Graduation Requirements - Beginning with the Class of 2011

In order for a student to qualify for a diploma, s/he must have satisfactorily completed the following courses and earned at least the number of credits including the requirements listed below. With the exception of the Online Experience, students may not use the same course to satisfy more than one requirement/credit. For example, Physics may not be used for both a Science and 12th grade Mathematics -related credit.

Credits	Curriculum	Credits	Curriculum
4	Mathematics - Algebra I AB or Algebra I ABC (SE) - Geometry AB or Geometry ABC (SE) - Algebra II//Trig AB or Integrated Algebra II AB 12th grade Math Choices (1 credit unless noted): Integrated Algebra II CD Dis. Math/Data Anl. (.5) Pre Calculus AB AP Calculus ABC (1.5) [M] AP Statistics ABC (1.5) [M] Computer Programming AB [M] <u>Math-related courses for 12th grade Math Credit</u> Accounting AB Physics AB Personal Finance (.5) BST C (.5) Adv. Mech. Drafting/CAD AB Heating and Cooling II <i>Other CTE math related</i> Auto Technology II <i>credits to be determined</i> Construction Trades II <i>by the host school district.</i>	3	Science - Physical Science AB (Essential Chemistry and Physics) - Biology AB - Either Chemistry AB, or ChemCom AB, or Physics AB (students cannot earn credit in both Chemistry and ChemCom)
		3	Social Studies - World History and Geography - US History and Geography - Civics (.5) or Civics ABC (SE) - Economics (.5)
		4	English - English 9 AB or English 9 ABC (SE) - English 10 AB or English 10 ABC(SE) - English 11 AB or English 11 ABC (SE) - English 12 AB, English 12 ABC (SE) or AP English ABC
1	Visual, Performing and Applied Arts (See Course Descriptions for credits possible) <hr/> <u>Any Vocational or Career Technical Education Course</u> offered at CHS or by the Downriver Career Technical Consortium that <u>does not fulfill a requirement in another subject area.</u> <u>All Music Courses except Music Appreciation</u> <u>All Art Courses</u> Drama [E] Journalism ABC [E] Digital Photo/Image Editing Marketing ABC Web Design/Dreamweaver	Business Service Technology (BST) ABC Sports and Entertainment Marketing AB MOUS Certification/ Business Management Web Design/HTML Language Mechanical Drawing Beginning Computer Aided Drafting Advanced Mechanical Drafting/CAD AB Advanced Computer Technology	Electives (See Course Descriptions for credits possible) <hr/> <u>Any VPAA Course over the 1 credit requirement</u> Academic Collegiate Transitions (required for juniors) Music Appreciation Business Law/General Business AB Personal Finance Library/Research Skills Speech [E] Advanced Grammar [E] Creative Writing [E] Ecology [S] Botany [S] Zoology [S] Wetlands {S} Anatomy/Physiology AB [S] Physics AB [S] or Chemistry AB [S] AP Biology ABC [S] Computer Programming AB
			Discrete Math/Data Anal World Wars American Civil War Social Institutions History of Society and Culture ABC Intro. to Psychology Devpmntal. Psychology Cognitive Psychology AP Psychology ABC AP US History ABC Adv Boys Phys. Education Girls Fitness Boys/Girls Team Sports Advanced Health <u>World Languages:</u> all are electives until the class of 2016, 3 rd and 4 th year and Intermd/Advan Language Conversations are always electives
<i>Any courses with a capital letter in brackets after the course name can be used as credits over the subject requirement for Personal Curriculum options.</i>			
1	Physical Education (.5) & Health (.5)	2	World Languages (<i>both credits must be in the same language</i>) Spanish 1, 2, 3 [L], 4 [L] Other languages are being considered but not available.
Required No Credit	Online Experience (20 hours from 6-12 grades) Technology/Career Planning (SMS) Web Design (SMS or CHS) Journalism (SMS or CHS)	Class of 2016 and beyond	Total Credits for Graduation Class of 2012 and later (total possible - 30) 3/31/2011 11:21 AM
	Library/Research Skills AB Beginning CAD/Advanced CAD AB (all three needed) BST AB (both needed) Computer Programming AB Digital Media I or II MOUS Certification/ Business Management Credit Recovery Classes (e2020)		

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 7.5 credits each year. Students who wish to receive credits through outside agencies such as correspondence, 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 course work 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. 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 cancelled. 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.

HOMEWORK

It is recommended that each student have regular hours for homework and develop a plan of home study. Such a plan will not only assure better results in school work, but will also lead to regular, well-formed study habits. A student needs to spend as much time on homework as necessary to achieve satisfactory results in his/her school work. If a high quality of school work is to result, part-time employment and other time-consuming outside-of-school activities may have to be sacrificed. One of the greatest contributing factors to failure in high school is insufficient time spent on homework.

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 then make an appointment in the guidance office with his/her counselor. Various strategies will be discussed. 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. **Please be advised- pending board approval- beginning with the class of 2013, students will no longer receive weighted grades.**

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 record, standardized testing results, and high school certification. Most colleges now require the applicant to take the American College Test (ACT) (*most colleges use this*) or the Scholastic Aptitude Test (SAT). Students and parents should consult college web sites 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.

The State universities in Michigan have agreed that to be eligible for regular admission to a four-year degree program, a high school student must successfully complete the following course requirements:

- ENGLISH – four credits required.
- MATHEMATICS – three credits required, including intermediate algebra; four credits strongly recommended.
- BIOLOGICAL/PHYSICAL SCIENCES – two credits required; three credits strongly recommended, including one credit of biological science and one credit of physical science. At least one credit of a laboratory course is also strongly recommended.
- HISTORY AND SOCIAL SCIENCES – three credits required; one credit of American History and one credit of World History strongly recommended.

Prospective students are also encouraged to complete courses in the following areas:

- FOREIGN LANGUAGE – three credits strongly recommended (same language). Some colleges are now requiring two credits.
- FINE AND PERFORMING ARTS – two credits strongly recommended.
- COMPUTER LITERACY – one credit of hand-on experience in using computers strongly recommended.

* *Liberal Arts* colleges prefer three or four credits of a foreign language.

** *Engineering* colleges require credits of mathematics, physics, and technical drawing (CAD). Technology education courses are recommended, because students will learn to use the tools and the processes that are used in the world of work.

*** *Fine Arts* students interested in pursuing a career in the arts should enroll in advanced art courses.

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 four high school classes).
3. PLAN, PSAT, ACT, or the Michigan Merit Examination (MME) scores determine eligibility for dual enrollment. The list of scores that qualify students for dual enrollment are as follows:

Assessment	Test Section	Content Area	Minimum Dual Enrollment Qualifying Score
PSAT	Critical Reading	Reading	44
	Writing Skills	Writing	49
	Mathematics	Mathematics	45
PLAN	Mathematics	Mathematics	18
	Reading	Reading	17
	Science	Science	19
	English	English	21
ACT	Mathematics	Mathematics	18
	Reading	Reading	17
	Science	Science	19
	English	English	21
MME	Reading	Reading	1100
	Writing	Writing	1100
	Mathematics	Mathematics	1100
	Science	Science	1100
	Social Studies	Social Studies	1100

4. A student in grades 11 or 12 must have completed all the tests on the Michigan Merit Exam (MME) in all subject areas and scored proficient (scored 1 or 2) in the areas in which he/she wishes to dual enroll. If the course is in math, proficiency must be exhibited in math, and so on in science, reading, and writing.
5. 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) as long as they have taken the entire MME and have attained proficiency in at least one area.
 - a. Any courses in the subject areas of hobby/craft, recreation, physical education, theology, divinity, or religious education are not eligible for dual enrollment.
6. *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.

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.

The testing out window is during the second and third trimester final exam period. The Testing Out Request form must be filled out and returned to the Counseling Office by the Friday prior to the week of finals to be considered. The required paperwork for testing out can be obtained from the Counseling Department.

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 web site 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.

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

AUTO CLUB

Carlson Auto Club Mission Statement: To put into practice the theory learned in the classroom. The Carlson Auto Club exists to give students the opportunity to practice their learned skills onto real applications. Typically, students work on their own vehicles and shop time is divided equally depending on space. Long-term goals of the Auto Club are to begin at least on racecar project and acquire sponsorships.

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 the BPA Pancake Breakfast 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 works for approximately two months to prepare and present a production. The production runs for three nights in February. Roles available include acting positions, set design, lighting, sound, makeup, costumes, and promotions.

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

Each spring, Carlson's National Honor Society distributes a letter to all students who, at the midpoint of their sophomore or junior year, are earning a 3.4 overall grade point average (GPA) notifying them of their eligibility for application to NHS. The application is due the following September. 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 junior year can reapply as seniors.

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.

POM PON/DANCE TEAM

A Pom Pon/Dance Team is a performance team that appears at many athletic and school functions. The characteristics of a Pom Pon/Dance team include, full routines to music while moving in unison and demonstrating creativity, enthusiasm, and school spirit. As a member of the Pom Pon/Dance team, the girls will be required to perform dance and pom-pom routines at various school events and state competitions. Because academics are important, each girl will hold a 2.5 GPA through the season. Tryouts are held in May for the following school year.

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.

SKI CLUB

Ski club is a group that travels to different locations each year. There have been day trips to Alpine Valley and Mount Holly. There have been weekend trips, as well, which include visits to Treetops Resort and Shanty Creek/Schuss Mountain. All travel is on a Luxury motor coach. Seats are limited to 30 participants. See the Ski Club sponsor(s) for more information.

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 selling candy grams to raise money for the needy and putting on a blood drive each fall.

ART DEPARTMENT

INTRODUCTION TO 2D ART**0.5 CREDIT****COURSE NUMBER: ART 102****GRADE LEVEL: 9-12****1 TERM****PATHWAY: All****PREREQUISITES:** None

This is an introductory course designed to provide students with a working knowledge of two-dimensional visual art. The objectives for this course are aligned with the Michigan Department of Education Standards and Benchmarks. This class will focus on developing the students' techniques in drawing, painting, and printmaking. 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 scheduled.

INTRODUCTION TO 3D ART**0.5 CREDIT****COURSE NUMBER: ART 103****GRADE LEVEL: 9-12****1 TERM****PATHWAY: All****PREREQUISITES:** None

This is an introductory course designed to provide students with a working knowledge of three-dimensional visual art. The objectives for this course are aligned with the Michigan Department of Education Standards and Benchmarks. This class will focus on developing the students' techniques in additive and subtractive sculpture, pottery, mold making, and glazing techniques. Artists in this class will examine three-dimensional arts through relief works and sculpture in the round. Students will study the arts through production, art criticism, art history, aesthetics, and art careers. This class is required before any further three-dimensional art classes may be scheduled.

DRAWING I**0.5 CREDIT****COURSE NUMBER: ART 611****GRADE LEVEL: 9-12****1 TERM****PATHWAY: AC/EMI****PREREQUISITES:** Introduction to 2D Art (ART 102)

This course is structured for the emerging artist who has already taken Introduction to 2D Art. They will be asked to develop their skills and begin on more challenging drawings. A deeper exploration of artistic mediums and techniques will be presented to the students. The objectives for this course are aligned with the Michigan Department of Education Standards and Benchmarks. Students will study the arts through production, art criticism, art history, aesthetics, and art careers.

PRINTMAKING & PAINTING I**0.5 CREDIT****COURSE NUMBER: ART 612****GRADE LEVEL: 9-12****1 TERM****PATHWAY: AC/EMI****PREREQUISITES:** Introduction to 2D Art (ART 102)

This course is structured for the emerging artist who has already taken Introduction to 2D Art. They will be asked to develop their skills and begin on more challenging paintings and prints. A deeper exploration of artistic mediums and techniques will be presented to the students. The objectives for this course are aligned with the Michigan Department of Education Standards and Benchmarks. Students will study the arts through production, art criticism, art history, aesthetics, and art careers.

SCULPTURE I**0.5 CREDIT****COURSE NUMBER: ART 613****GRADE LEVEL: 9-12****1 TERM****PATHWAY: All****PREREQUISITES:** Introduction to 3D Art (ART 103)

This course is structured for the emerging artist who has already taken Introduction to 3D Art. They will be asked to develop their skills and begin on more challenging sculpture. A deeper exploration of artistic mediums and techniques will be presented to the students. The objectives for this course are aligned with the Michigan Department of Education Standards and Benchmarks. Students will study the arts through production, art criticism, art history, aesthetics, and art careers.

CERAMICS I**0.5 CREDIT****COURSE NUMBER: ART 614****GRADE LEVEL: 9-12****1 TERM****PATHWAY: All****PREREQUISITES:** Introduction to 3D Art (ART 103)

This course is structured for the emerging artist who has already taken Introduction to 3D Art. They will be asked to develop their skills and begin on more challenging ceramics. A deeper exploration of artistic mediums and techniques will be presented to the students. The objectives for this course are aligned with the Michigan Department of Education Standards and Benchmarks. Students will study the arts through production, art criticism, art history, aesthetics, and art careers.

DRAWING II**GRADE LEVEL:** 9-12**PREREQUISITES:** Drawing I (ART 611)**NOTE:** Offered odd years (i.e. 2008-2009)

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

1 CREDIT**2 TERMS****COURSE NUMBER:** ART 621-2**PATHWAY:** AC/EMI**PRINTMAKING & PAINTING II****GRADE LEVEL:** 9-12**PREREQUISITES:** Printmaking & Painting I (ART 612)**NOTE:** Offered even years (i.e. 2009-2010)

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

1 CREDIT**2 TERMS****COURSE NUMBER:** ART 631-2**PATHWAY:** AC/EMI**SCULPTURE II****GRADE LEVEL:** 9-12**PREREQUISITES:** Sculpture I (ART 613)**NOTE:** Offered even years (i.e. 2009-2010)

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

1 CREDIT**2 TERMS****COURSE NUMBER:** ART 641-2**PATHWAY:** All**CERAMICS II****GRADE LEVEL:** 9-12**PREREQUISITES:** Ceramics I (ART 614)**NOTE:** Offered odd years (i.e. 2008-2009)

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

1 CREDIT**2 TERMS****COURSE NUMBER:** ART 651-2**PATHWAY:** All**SENIOR PORTFOLIO****GRADE LEVEL:** 12**PREREQUISITES:** Four art courses

This course is structured for a future college art student. Students will be challenged to master advanced techniques, use multiple media, and work larger. Each participant will be asked to push their ideas and draw from personal experiences to construct a new direction for their own artistic expression. Students will focus a large amount of the semester preparing work for college entrance portfolios. Every Senior Portfolio student will be required to host a final exhibition of their work. Additional hours outside of class may be required for successful completion of this course.

1 CREDIT**2 TERMS****COURSE NUMBER:** ART 661-2**PATHWAY:** AC/EMI

BUSINESS DEPARTMENT

BST A (BUSINESS, SERVICES & TECHNOLOGY)

**0.5 CREDIT
1 TERM**

COURSE NUMBER: BUS 101
PATHWAY: All

GRADE LEVEL: 9-12

PREREQUISITES: None

BST A covers essential computer concepts (IC³) and Microsoft PowerPoint. It is offered to all students and recommended that all students include BST in their academic course choices to better prepare them for attending college or entering the work force. The computer concepts covered will include file management, input/output devices, storage devices, computer software, networks and the Internet. Microsoft PowerPoint concepts to be covered include the Microsoft PowerPoint window, creating and editing a presentation, presentation formatting, and presentation skills.

BST B (BUSINESS, SERVICES & TECHNOLOGY)

**0.5 CREDIT
1 TERM**

COURSE NUMBER: BUS 102
PATHWAY: All

GRADE LEVEL: 9-12

PREREQUISITES: BST A (BUS 101)

BST B covers Microsoft Word and Desktop Publishing, and it is offered to students that have successfully completed BST A. Microsoft Word concepts to be covered include the Microsoft Word window, creating and editing documents, document formatting, creating tables and keying for speed and accuracy. Microsoft Publisher concepts to be covered include the Microsoft Publisher window, creating and editing documents and publications for promotional and informational use, applying creative document formatting, and applying skills learned to business simulations.

BST C (EXCEL & ACCESS)

**0.5 CREDIT
1 TERM**

COURSE NUMBER: BUS 103
PATHWAY: All

GRADE LEVEL: 10-12

PREREQUISITES: BST A (BUS 101) and BST B (BUS102)

BST C (Excel and Access) covers Microsoft Excel and Access, and it is offered to students that have successfully completed BST A. Microsoft Excel concepts to be covered include the Microsoft Excel window, creating worksheets and embedded charts, formulas, functions, and formatting, what if analysis, charting, and working with large worksheets. Microsoft Access concepts to be covered include Microsoft Access window, creating and using a database, querying a database, maintaining a database, and sharing data among applications.

MARKETING A

**0.5 CREDIT
1 TERM**

COURSE NUMBER: BUS 201
PATHWAY: All

GRADE LEVEL: 10-12

PREREQUISITES: None

Marketing A explores the fundamentals of marketing, how it relates to everyday life, economics as it relates to business, the role of marketing in business and society, the skills necessary to succeed in marketing, along with basic promotional concepts. Much of the work for this class is hands-on, project oriented, and team-based. Some activities and projects include creating a useful item from recycled materials, simulating the assembly line process to create a product, designing collages, reinforcing supply and demand concepts with the Plane Game, participating in an intercultural communication simulation, and much more! Marketing A is highly recommended for students interested in business, especially those that plan to start their own business someday.

MARKETING B

**0.5 CREDIT
1 TERM**

COURSE NUMBER: BUS 202
PATHWAY: All

GRADE LEVEL: 10-12

PREREQUISITES: Marketing A (BUS 201)

Marketing B looks more closely at promotional concepts such as visual merchandising and displays, advertising media, and print advertisements. In addition, students will study product service planning concepts that include designing products, branding, packaging, and labeling. Other areas of study include price planning, pricing strategies, distribution, and inventory control. Much of the work for this class is hands-on, project oriented, and team-based. Some activities and projects include designing a product, creating and testing product packaging through an egg drop competition, completing a distribution obstacle course, creating an infomercial, and much more! Marketing B is highly recommended for students interested in business, especially those that plan to start their own business someday.

MARKETING C **0.5 CREDIT** **COURSE NUMBER: BUS 203**
GRADE LEVEL: 10-12 **1 TERM** **PATHWAY: All**
PREREQUISITES: Marketing B (BUS 202)
Marketing C is designed for students with an entrepreneurial spirit and involves a higher level of concept application. Topics of study include the steps of the selling process, conducting marketing research, entrepreneurial concepts, developing a business plan, and identifying career opportunities in marketing. Much of the work for this class is hands-on, project oriented, and team-based. Some activities and projects include designing a sales pitch for particular product, developing a business plan, participating in career-related activities, and much more! Marketing C is highly recommended for students interested in business, especially those that plan to start their own business someday.

SPORTS & ENTERTAINMENT **0.5 CREDIT** **COURSE NUMBER: BUS 211**
MARKETING A **1 TERM** **PATHWAY: All**
GRADE LEVEL: 11-12
PREREQUISITES: None
Students will explore the rapidly growing industry of sports and entertainment marketing and study management principles practiced by successful businesses in the sports and entertainment arenas. Topics covered include marketing basics, overviews of sports, entertainment, and recreation marketing, college and amateur sports, professional sports, marketing products and services through sports, public images, advancing the cause, and careers in sports marketing.

SPORTS & ENTERTAINMENT **0.5 CREDIT** **COURSE NUMBER: BUS 212**
MARKETING B **1 TERM** **PATHWAY: All**
GRADE LEVEL: 11-12
PREREQUISITES: Sport & Entertainment Marketing A (BUS 211)
Students will continue to explore the rapidly growing industry of sports and entertainment marketing and study management principles practiced by successful businesses in the sports and marketing arena. Topics covered include careers in sports marketing, the entertainment industry, marketing entertainment, recreation marketing, creating a marketing plan, and legal issues for sports and entertainment.

BUSINESS LAW/GENERAL **0.5 CREDIT** **COURSE NUMBER: BUS 301**
BUSINESS A **1 TERM** **PATHWAY: BT/EMI**
GRADE LEVEL: 10-12
PREREQUISITES: None
This course will focus on law for both business and personal matters. We will cover types of laws, the Constitution, the court system, and criminal and civil proceedings.

BUSINESS LAW/GENERAL **0.5 CREDIT** **COURSE NUMBER: BUS 302**
BUSINESS B **1 TERM** **PATHWAY: BT/EMI**
GRADE LEVEL: 10-12
PREREQUISITES: None
This course will focus on law for both business and personal matters. We will cover 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 TERM** **PATHWAY: BT/EMI**
PREREQUISITES: None
Financial activities of a sole proprietorship, partnership and corporation are the focus of this course. Theories and principles include analyzing and journalizing transactions, posting to a general ledger, cash control systems, work sheet for a service business, financial statements for a proprietorship and adjusting and closing entries. Some computer application will enhance the course.

ACCOUNTING B **0.5 CREDIT** **COURSE NUMBER: BUS 312**
GRADE LEVEL: 11-12 **1 TERM** **PATHWAY: BT/EMI**
PREREQUISITES: Accounting A (BUS 311)
 Financial activities of a sole proprietorship, partnership and corporation are the focus of this course. Theories and principles include journalizing purchases and cash payments, journalizing sales and cash receipts using special journals, posting to general and subsidiary ledgers, preparing payroll records, payroll accounting, taxes, and reports, distributing dividends and preparing a work sheet for a merchandising business, financial statements for a corporation, and recording adjusting and closing entries for a corporations. The accounting software Quickbooks Pro 2007 will be used to enhance this portion of the course.

WEB DESIGN/HTML LANGUAGE **0.5 CREDIT** **COURSE NUMBER: BUS 611**
GRADE LEVEL: 11-12 **1 TERM** **PATHWAY: BT/EMI**
PREREQUISITES: BST A (BUS 101)
 This course will focus on Web Design using HTML language. Students interested in careers as a Web Page Developer would benefit from this course.

BUSINESS MANAGEMENT **0.5 CREDIT** **COURSE**
NUMBER:BUS331 **1 TERM** **PATHWAY: BT/EMI**
GRADE LEVEL: 11-12
PREREQUISITES: BST A (BUS 101), BST B (BUS 102), & BST C (BUS 103)
 Business Management offers students a look at the importance of business management in the business world of today. Topics covered include the evolution of management, careers in management, and the management environment along with necessary foundation skills such as problem solving, decision making, and written and verbal communication. Class projects expand on core business skills such as good work habits (soft skills), leadership, career planning, and teamwork. Research into conducting business internationally offers a unique perspective on doing business in other countries across the world.

DIGITAL PHOTOGRAPHY/IMAGE **0.5 CREDIT** **COURSE NUMBER: BUS 612**
EDITING **1 TERM** **PATHWAY: BT/EMI**
GRADE LEVEL: 11-12
PREREQUISITES: BST A (BUS 101)
 In Digital Photography/ Image Students will learn how to use a digital camera to take digital photographs relating to certain topics and themes. Students will learn about the basic functions of the camera, focusing, exposure and creative techniques that will enhance their photographs. Photoshop CS3 will then be used to allow creation, manipulation and enhancement of digital images. Students interested in graphic design would benefit from this course.

WEB DESIGN/DREAMWEAVER **0.5 CREDIT** **COURSE NUMBER: BUS 613**
GRADE LEVEL: 11-12 **1 TERM** **PATHWAY: BT/EMI**
PREREQUISITES: BST A (BUS 101) & HTML Language (BUS 611)
 This course will focus on Web Design using the software Dreamweaver MX. In addition, the technology, services, and marketing of an E-commerce site will be covered. Students interested in careers as a Web Page Developer would benefit from this course.

PERSONAL FINANCE **0.5 CREDIT** **COURSE NUMBER: BUS 614**
GRADE LEVEL: 12 **1 TERM** **PATHWAY: All**
PREREQUISITES: None
NOTE: This course can count as 0.5 of the 1 credit 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 and 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.

ENGLISH DEPARTMENT

ENGLISH LANGUAGE ARTS 9**1 CREDIT****COURSE NUMBER:** ENG 101-2**GRADE LEVEL:** 9**2 TERMS****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**1 CREDIT****COURSE NUMBER:** ENG 201-2**GRADE LEVEL:** 10**2 TERMS****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.

ENGLISH LANGUAGE ARTS 11**1 CREDIT****COURSE NUMBER:** ENG 301-2**GRADE LEVEL:** 11**2 TERMS****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 ACT 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.

ENGLISH LANGUAGE ARTS 12**1 CREDIT****COURSE NUMBER:** ENG 401-2**GRADE LEVEL:** 12**2 TERMS****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)**1.5 CREDIT****COURSE NUMBER:** ENG 501-3**COLLEGE ENGLISH****3 TERMS****PATHWAY:** All**GRADE LEVEL:** 12**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/YEARBOOK**GRADE LEVEL:** 11-12**PREREQUISITES:** Teacher Recommendation

The purpose of this class is to produce a creative, well-done high school yearbook. Students are responsible for planning the photography, organizing the book as a whole, designing lay-outs, writing copy and headlines, proofreading and fitting copy, putting all designs on the computer, financing the book by selling ads, selling yearbook subscriptions and distributing the final product. This is an academic elective with academic expectations. Students are expected to complete their assigned activities and projects 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. Basic Units of Study: Reporting and writing, graphic design, desktop publishing, business skills, and time management.

1.5 CREDIT**3 TERMS****COURSE NUMBER:** ENG 611-3**PATHWAY:** All**SPEECH****GRADE LEVEL:** 11-12**PREREQUISITES:** English 10 (ENG 201-202)

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.

0.5 CREDIT**1 TERM****COURSE NUMBER:** ENG 621**PATHWAY:** All**DRAMA****GRADE LEVEL:** 10-12**PREREQUISITES:** English 9 (ENG 101-102)

The basic fundamentals of acting will be taught using proper terminology along with individual and group performances that demonstrate the student's knowledge of each topic covered. An emphasis will be put on audience focus, gestures, expressions, stage movement, stage presence, and creativity. The application of all of these skills will be used during a student created play production.

0.5 CREDIT**1 TERM****COURSE NUMBER:** ENG 631**PATHWAY:** All**ADVANCED GRAMMAR****GRADE LEVEL:** 11-12**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.

0.5 CREDIT**1 TERM****COURSE NUMBER:** ENG 641**PATHWAY:** All**CREATIVE WRITING****GRADE LEVEL:** 9-10**PREREQUISITES:** Successful completion of 8th grade English

Creative Writing provides all students with an opportunity for additional writing instruction beyond the standard 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.

0.5 CREDIT**1 TERM****COURSE NUMBER:** ENG 651**PATHWAY:** All

CREATIVE WRITING II**0.5 CREDIT****COURSE NUMBER: ENG653****GRADE LEVEL:** 10-12**1 TERM****PATHWAY: ALL****PREREQUISITES:** Successful completion of Creative Writing, Teacher Approval

Creative Writing II is a continuation of Creative Writing I. This class allows students to revise and improve their writing from Creative Writing I as well as explore more advanced writing techniques and challenging writing genres. Students will also continue to expand and refine their ability to write through analyzing and evaluating their own writing and that of the other students.

LIBRARY/RESEARCH SKILLS**1 CREDIT****COURSE NUMBER: ENG 655-6****GRADE LEVEL:** 11-12**2 TERMS****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. Students will also assist with the daily operation of the Scholastic Book Fair (up to twice a year) and assist with the creation of a monthly newsletter.

RESEARCH WRITING**0.5 CREDIT****COURSE NUMBER: ENG643****GRADE LEVEL:** 10-12**1 TERM****PATHWAY: ALL****PREREQUISITES:** successful completion of 8th grade English

The purpose of a research based writing class is to offer students an opportunity to enhance writing skills in regards to formal, technical writing. This class would be offered to grades 10-12 and would provide students the opportunity to not only sharpen their technical writing skills, but also to become familiar with the research and documentation process. The research paper is taught in both 10th and 11th grades, however, students will benefit from additional practice. The course will begin by addressing writing mechanics such as proofreading techniques, punctuation, capitalization, etc. We will then transition into writing as a process, MLA formatting, library skills, and researching.

FOREIGN LANGUAGE DEPARTMENT

SPANISH I **1 CREDIT** **COURSE NUMBER:** SPN 101-2
GRADE LEVEL: 9-12 **2 TERMS** **PATHWAY:** All
PREREQUISITES: C or better in English
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 **1 CREDIT** **COURSE NUMBER:** SPN 201-2
GRADE LEVEL: 9-12 **2 TERMS** **PATHWAY:** All
PREREQUISITES: Spanish I (SPN 101-102, C or better recommended)
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 **1 CREDIT** **COURSE NUMBER:** SPN 301-2
GRADE LEVEL: 10-12 **2 TERMS** **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 **1 CREDIT** **COURSE NUMBER:** SPN 401-2
GRADE LEVEL: 11-12 **2 TERMS** **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.

INTERMEDIATE SPANISH CONVERSATION **0.5 CREDIT** **COURSE NUMBER:** SPN 601
GRADE LEVEL: 9-12 **1 TERM** **PATHWAY:** All
PREREQUISITES: Enrolled in or completed Spanish II or III (SPN 201-2 or 301-302, C or better recommended). Not enrolled in Spanish IV.
Intermediate conversation is a one trimester elective offered by the Foreign Language department and is tailored to students who are currently enrolled in or have completed Spanish II or III. This course is designed to further the speaking and comprehension of the interested and self-motivated Spanish student and will require active participation and regular attendance. Students will actively converse in the target language and fine-tune their pronunciation and overall grasp of the language. This course is ideal for students who wish to improve the depth of their Spanish studies, are self-motivated, interested, and knowledgeable.

ADVANCED SPANISH CONVERSATION **0.5 CREDIT** **COURSE NUMBER:** SPN 602
GRADE LEVEL: 10-12 **1 TERM** **PATHWAY:** All
PREREQUISITES: Enrolled in or completed Spanish III or IV (SPN 301-2 or 401-302, C or better recommended).
Advanced conversation is a one trimester elective offered by the Foreign Language department and is tailored to students who are currently enrolled in or have completed Spanish III or IV. This course will require a strong grasp of the language and vocabulary, as all tasks are completed in the target language. Students will continue to fine-tune their vocabulary, command of the language and increased use of idioms in a conversational setting. Good attendance is essential to a student's success in this course. The ideal Advanced Conversation student has a solid base in the Spanish language, is motivated and interested in the language, and intrinsically desires to deepen their knowledge and skill of language use.

GENERAL STUDIES

**ACADEMIC COLLEGIATE
TRANSITIONS**

**0.5 CREDIT
1 TERM**

**COURSE NUMBER: GEN 301
PATHWAY: All**

GRADE LEVEL: 11 (REQUIRED)

PREREQUISITES: None

NOTE: This course was previously titled "Advanced Study Skills."

This course will inform students of the different habits and skills needed for the successful completion of standardized testing in a student's junior or senior year and of the skills necessary for success in post-secondary education. Students will acquire knowledge that will be helpful in understanding the concepts of study, testing taking, and preparation for any class in high school. During this course, students will rotate between three teachers that are knowledgeable in language arts, mathematics, and science.

THEATER PRODUCTION

**0.5 CREDIT
1 TERM**

**COURSE NUMBER: GEN305
PATHWAY: AC**

GRADE LEVEL: 10-12

PREREQUISITES: Drama; preferred but not required

This is a one trimester 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.

Pending Board Approval

MATHEMATICS DEPARTMENT

ALGEBRA I
GRADE LEVEL: 9

1 CREDIT
2 TERMS

COURSE NUMBER: MTH 101-2
PATHWAY: All

PREREQUISITES: None

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 everyday 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

1 CREDIT
2 TERMS

COURSE NUMBER: MTH 201-2
PATHWAY: All

PREREQUISITES: Algebra I (MTH 101-102)

The following topics will be covered in this class: patterns, points, lines, planes, segments, reasoning and proofs, perpendicular and parallel lines, congruent triangles, perimeter, properties of triangles, quadrilaterals, transformations, similarity, right triangles and trigonometry, circles, area of polygons and circles, surface area and volume, and more. 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. Assessments will be in the form of question/answer, quizzes, projects, and written evaluations.

ALGEBRA II & TRIGONOMETRY
GRADE LEVEL: 10-12

1 CREDIT
2 TERMS

COURSE NUMBER: MTH 301-2
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.

INTEGRATED ALGEBRA II
GRADE LEVEL: 11-12

2 CREDITS
4 TERMS

COURSE NUMBER: MTH 311-4
PATHWAY: All

PREREQUISITES: D- to C- in Algebra I (MTH 101-102) and Geometry (MTH 201-202)

In Integrated 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. MTH 311-2 is intended for junior students, while MTH 313-4 is intended for senior students. Upon successful completion of all four terms, students will have fulfilled the Algebra II requirement as outlined in the Michigan Merit Curriculum.

PRE-CALCULUS**GRADE LEVEL:** 10-12**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.

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

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. The aim of the 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*

1.5 CREDIT**3 TERMS****COURSE NUMBER:** MTH 501-3**PATHWAY:** BT/EMI/NRA**AP STATISTICS****GRADE LEVEL:** 11-12**PREREQUISITES:** Algebra II/Trig (MTH 301-302)

AP Statistics is a college-level introductory statistics class taught in high school. 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 population parameters and testing hypotheses.

Students will complete activities and projects and use technology to enhance their understanding. Students will be required to take the AP Statistics exam. Students that pass the AP exam will be granted 1 semester of college credit at most universities.

1.5 CREDIT**3 TERMS****COURSE NUMBER:** MTH 511-3**PATHWAY:** All**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: Psychology, Sociology, Biology, Civil Engineering, Mathematics, Mechanical Engineering, Aerospace Engineering, Nursing, Veterinary Science, Nutritional Science, Business Management, Accounting, Finance, Marketing, and Economics.
- 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 will 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 claims made in the media. This is a critical skill in this age of information.

COMPUTER PROGRAMMING**1 CREDIT****COURSE NUMBER: MTH 601-2****GRADE LEVEL: 10-12****2 TERMS****PATHWAY: BT/EMI****PREREQUISITES:** Algebra I (MTH 101-102) & Geometry (MTH 201-202)

Previous programming experience is not required or assumed. It is the goal of this class to provide students the best possible introduction to programming using Visual Basic, whether they will continue on to more advanced computer science courses or end their computer education with this introductory course. Some of the student learning objectives include: Variables and constants, controlling program flow with decision structures, controlling program flow with looping structures, procedures, mathematical and business functions, arrays, graphics, color and sound, sequential access files, random access files, sorting and searching, using Microsoft Office with Visual Basic applications.

DISCRETE MATH/DATA ANALYSIS**0.5 CREDIT****COURSE NUMBER: MTH 611****GRADE LEVEL: 11-12****1 TERM****PATHWAY: BT/EMI/NRA****PREREQUISITES:** Pre-Calculus (MTH 401-402)

This course completes the series of Pre – Calculus A and B. After the completion of Pre – Calc B the course will enable students to see other areas of mathematics that will help understand future math courses such as AP Statistics and Calculus or Combinatorics at college. It is intended to give the student a wide exposure to fields that use mathematics such as polar coordinates, sequences and series, combinatorics and probability. 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). Through the use of application, problem solving, reasoning, communication, and technology the student will gain further insight into advance mathematics courses. 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 the course should continue their mathematics whether at high school or college. This course can be taken concurrently with AP Statistics and AP Calculus.

MUSIC DEPARTMENT

CONCERT CHOIR**GRADE LEVEL:** 9-12**PREREQUISITES:** None**1 CREDIT****2 TERMS****COURSE NUMBER:** MUS 601-2**PATHWAY:** All

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.

JAZZ BAND**GRADE LEVEL:** 10-12**PREREQUISITES:** Audition/Permission from Instructor**1 CREDIT****2 TERMS****COURSE NUMBER:** MUS 611-2**PATHWAY:** All

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: MSBOA JAZZ FESTIVAL, ISLAND FEST, School Concerts, and other performances.

MARCHING/SYMPHONIC BAND**GRADE LEVEL:** 9-12**PREREQUISITES:** Audition with Director**1.5 CREDIT****3 TERMS****COURSE NUMBER:** MUS 621-3**PATHWAY:** All

Marching/Symphonic Band is a full year course. Students will hone their instrumental technical abilities and musical expression through a variety of performance options. This ensemble is the main performance group for Carlson High School; as such students will be expected to participate in a number of extracurricular activities such as rehearsals, Football Games, Marching Band Festivals and Competitions, Concert Band Festivals, as well as school performances and concerts. Band Camp is required for all students entering this ensemble and there is a cost involved.

MUSIC APPRECIATION**GRADE LEVEL:** 9-12**PREREQUISITES:** None**0.5 CREDIT****1 TERM****COURSE NUMBER:** MUS 631**PATHWAY:** AC

Students in this course will experience and learn to appreciate different varieties of music from classical to modern. Students will receive a brief overview of the development of western music, as well as early American music, Jazz, and the beginnings of Rock and Roll. Students will also learn basic concepts in note and rhythm reading. Grades will be based on written reports, presentations and class projects.

PHYSICAL EDUCATION DEPARTMENT

**9th GRADE BOYS PHYSICAL
EDUCATION**

**0.5 CREDIT
1 TERM**

**COURSE NUMBER: HPE 101
PATHWAY: All**

GRADE LEVEL: 9

PREREQUISITES: None

During this trimester course, students will be exposed to three basic areas including: Team Sports, Individual Sports and Physical Fitness. Units will vary according to the time of year. Units include: Football, Soccer, Volleyball, Hockey, Basketball, Ping-Pong, Tennis, Softball, Bowling and Swimming.

**9th GRADE GIRLS PHYSICAL
EDUCATION**

**0.5 CREDIT
1 TERM**

**COURSE NUMBER: HPE 111
PATHWAY: All**

GRADE LEVEL: 9

PREREQUISITES: None

During this trimester course, students will be exposed to three basic areas including: Team Sports, Individual Sports and Physical Fitness. Units will vary according to the time of year. Units include: Football, Soccer, Volleyball, Hockey, Basketball, Ping-Pong, Tennis, Softball, Aerobic dance, Track, Gymnastics, Eclipse Ball and Swimming.

**BOYS HEALTH
GRADE LEVEL: 9**

**0.5 CREDIT
1 TERM**

**COURSE NUMBER: HPE 102
PATHWAY: All**

PREREQUISITES: None

This class is required for male ninth grade students. Units covered include: Conflict Resolution, Violence Prevention, Drug use, Nutrition, 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.

**GIRLS HEALTH
GRADE LEVEL: 9**

**0.5 CREDIT
1 TERM**

**COURSE NUMBER: HPE 112
PATHWAY: All**

PREREQUISITES: None

This class is required for female ninth grade students. Units covered include: Conflict Resolution, Violence Prevention, Drug use, Nutrition, 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.

**ADVANCED BOYS PHYSICAL
EDUCATION**

**0.5 CREDIT
1 TERM**

**COURSE NUMBER: HPE 601
PATHWAY: All**

GRADE LEVEL: 10-12

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

This class will allow students the opportunity to improve their skills, to maintain an appropriate level of fitness through daily aerobic activities, and to develop stress reduction techniques through the enjoyment and pleasure they receive in participating in the following sports: Tennis, soccer, football, volleyball, basketball, badminton, archery, bowling, and hockey.

**GIRLS FITNESS
GRADE LEVEL: 10-12**

**0.5 CREDIT
1 TERM**

**COURSE NUMBER: HPE 602
PATHWAY: All**

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 kick boxing, weight/resistance training, step aerobics, circuit training, jogging and stress reduction. Students will learn the five components of physical education including strength and muscular endurance, flexibility, cardiovascular fitness and body composition.

BOYS TEAM SPORTS**0.5 CREDIT****COURSE NUMBER:** HPE 611**GRADE LEVEL:** 9**1 TERM****PATHWAY:** All**PREREQUISITES:** 9th Grade Boys Physical Education

This class is designed for 9th grade boys 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 working together in various team sports.

GIRLS TEAM SPORTS**0.5 CREDIT****COURSE NUMBER:** HPE 612**GRADE LEVEL:** 9**1 TERM****PATHWAY:** All**PREREQUISITES:** 9th Grade Girls Physical Education

This class is designed for 9th grade girls 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 working together in various team sports.

ADVANCED HEALTH**0.5 CREDIT****COURSE NUMBER:** HPE 621**GRADE LEVEL:** 10-11**1 TERM****PATHWAY:** All**PREREQUISITES:** Ninth Grade Health

This class is designed for both female and male students who want to learn CPR, AED, and First Aid. Students will have the opportunity to receive their certification card (good for two years) upon completion of this course. The second part of this course will cover sections of health that were not covered in general health. Topics include: Cardiovascular and Respiratory Health, Chronic Diseases, Preventing Injuries, and Infectious Diseases.

CONDITIONING**0.5 CREDIT****COURSE NUMBER:** HPE 603**GRADE LEVEL:** 10-12**1 TERM****PATHWAY:** All

The overall purpose for the Conditioning Class is for all athletes to have an opportunity to improve themselves in respect to their specific sport and their overall health. Our goal is for students to become stronger, faster, and more flexible athletes. 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.

SCIENCE DEPARTMENT

PHYSICAL SCIENCE**1 CREDIT****COURSE NUMBER:** SCI 101-2**GRADE LEVEL:** 9**2 TERMS****PATHWAY:** All**PREREQUISITES:** Grade 8 Science

Knowledge of science and its applications is vital to each person's ability to function effectively in today's complex society. Physical Science 101 covers principles of chemistry, while Physical Science 102 covers principles of physics. The grade in this class will be determined by homework/class work assignments, test and quiz grades. Students will need a simple calculator. The course will follow a planned curriculum design, and it is important that the student keep up with all reading and assignments. Basic units of study in Physical Science 101 include: Matter, Atoms and the Periodic Table, Chemical Reactions, Acids, Bases, and Salts. Basic units of study in Physical Science 102 include: Motion, Forces, Work and Energy, Heat and Temperature, Waves, Sound and Light, and Electricity.

BIOLOGY**1 CREDIT****COURSE NUMBER:** SCI 201-2**GRADE LEVEL:** 10**2 TERMS****PATHWAY:** All**PREREQUISITES:** Physical Science (SCI 101-102)

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.

CHEMISTRY**1 CREDIT****COURSE NUMBER:** SCI 301-2**GRADE LEVEL:** 10-12**2 TERMS****PATHWAY:** All**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.

CHEMISTRY IN THE COMMUNITY**1 CREDIT****COURSE NUMBER:** SCI 311-2**GRADE LEVEL:** 10-12**2 TERMS****PATHWAY:** AC/BT/HUS/NRA**PREREQUISITES:** Algebra I (MTH 101-102) and Biology (SCI 201-202)

Chemistry is a part, if not all, of our everyday lives. Chemistry in the Community (ChemCom) uses chemical concepts to help students understand the chemistry behind some important issues in our world. This class will help students recognize and understand the importance of chemistry in their lives along with developing problem-solving skills to make informed decisions about scientific and technological issues. Students experience the use and application of their chemistry learning. Most students will find this class interesting because of the many laboratory activities. ChemCom is an excellent alternative for students who want to know more about chemistry but do not have the mathematical background or strong interest in a science related career.

PHYSICS**1 CREDIT****COURSE NUMBER:** SCI 401-2**GRADE LEVEL:** 11-12**2 TERMS****PATHWAY:** HES/EMI**PREREQUISITES:** Algebra II (MTH 301-302)

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. 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)
BIOLOGY**

**1.5 CREDIT
3 TERMS**

**COURSE NUMBER: SCI 501-3
PATHWAY: HES/NRA**

GRADE LEVEL: 11-12

PREREQUISITES: Chemistry (SCI 301-302)

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 AND PHYSIOLOGY

**1 CREDIT
2 TERMS**

**COURSE NUMBER: SCI 601-2
PATHWAY: HES**

GRADE LEVEL: 10-12

PREREQUISITES: Biology (SCI 201-202)

Anatomy and Physiology is the study of all of the human systems and how they function independently and interrelated. 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; understand anatomical terminology; and dissection and classification of specific organs, such as eye, brain, spinal cord, heart and kidney. The class is offered as an introduction for students who may want to enter health care fields.

ECOLOGY

**0.5 CREDIT
1 TERM**

**COURSE NUMBER: SCI 611
PATHWAY: HES/HUS/NRA**

GRADE LEVEL: 10-12

PREREQUISITES: Biology (SCI 201-202)

This course reviews basic principles of ecology. This course will cover issues including air pollution, water pollution, ozone depletion, global warming, human population growth, and renewable and alternative energy sources.

BOTANY

**0.5 CREDIT
1 TERM**

**COURSE NUMBER: SCI 612
PATHWAY: HES/HUS/NRA**

GRADE LEVEL: 10-12

PREREQUISITES: Biology (SCI 201-202)

This course covers anatomy and physiology of the following groups of organisms: bacteria, viruses, algae, fungi, moss, ferns, and seed plants. This class is also supplemented with labs and field studies.

ZOOLOGY

**0.5 CREDIT
1 TERM**

**COURSE NUMBER: SCI 613
PATHWAY: HES/HUS/NRA**

GRADE LEVEL: 10-12

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.

WETLANDS STUDY

**0.5 CREDIT
1 TERM**

**COURSE NUMBER: SCI 614
PATHWAY: NRA/HES**

GRADE LEVEL: 10-12

PREREQUISITES: Biology (SCI 201-202) C+ or better

Wetlands is a course designed to acquaint the students with the basic principles of Ecology initially, and then focus on concepts specifically pertaining to the wetlands. The course will include field study of plant and animal populations, water analysis, soil study, and mapping.

SOCIAL STUDIES DEPARTMENT

WORLD HISTORY & GEOGRAPHY

1 CREDIT

COURSE NUMBER: SOC 101-2

GRADE LEVEL: 9

2 TERMS

PATHWAY: All

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.

U.S. HISTORY & GEOGRAPHY

1 CREDIT

COURSE NUMBER: SOC 201-2

GRADE LEVEL: 10

2 TERMS

PATHWAY: All

PREREQUISITES: World History and Geography (SOC 101-102)

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, student 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 continues 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.

CIVICS

0.5 CREDIT

COURSE NUMBER: SOC 301

GRADE LEVEL: 10-11

1 TERM

PATHWAY: All

PREREQUISITES: U.S. History (SOC 201-202)

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

0.5 CREDIT

COURSE NUMBER: SOC 302

GRADE LEVEL: 10-11

1 TERM

PATHWAY: All

PREREQUISITES: U.S. History (SOC 201-202)

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.

**ADVANCED PLACEMENT (AP)
U.S. HISTORY (APUSH)
GRADE LEVEL: 11-12**

**1.5 CREDIT
3 TERMS**

**COURSE NUMBER: SOC 501-3
PATHWAY: All**

PREREQUISITES: U.S. History (SOC 201-202), minimum 3.0 in SS & Language Arts, Teacher Approval
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**

**1.5 CREDIT
3 TERMS**

**COURSE NUMBER: SOC 511-3
PATHWAY: All**

PREREQUISITES: 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 the 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 on-line 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 this exam.*

**WORLD WARS
GRADE LEVEL: 9-12**

**0.5 CREDIT
1 TERM**

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

PREREQUISITES: World History & Geography (SOC 101-102)

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.

**AMERICAN CIVIL WAR
GRADE LEVEL: 10-12**

**0.5 CREDIT
1 TERM**

**COURSE NUMBER: SOC 604
PATHWAY: All**

PREREQUISITES: U.S. History & Geography (SOC 201-202)

The Civil War was the defining event of 19th century America. Beyond eliminating slavery, the Civil War had a massive effect on the course of American history, a direct impact on the growth of Federalism, changes in the Constitution, the American economy and interstate relationships. The course will look beyond the battles in the war and explore the impact the war had on the lives of the average person. Additionally, the class will look at the significant figures of the war and their contributions. This class will be taught to give students a greater understanding of the Civil War that is not expanded upon in American History courses. Students have great interest in the Civil War and this course is created to meet that interest.

INTRO TO PSYCHOLOGY**0.5 CREDIT****COURSE NUMBER: SOC 651****GRADE LEVEL: 10-12****1 TERM****PATHWAY: All****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 on-line component, Blackboard, 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.

DEVELOPMENTAL PSYCHOLOGY**0.5 CREDIT****COURSE NUMBER: SOC 652****GRADE LEVEL: 10-12****1 TERM****PATHWAY: All****PREREQUISITES:** Introduction to Psychology (SOC 651)**NOTE:** Offered odd years (i.e. 2008-2009)

This course will look at lifespan psychology and the significant periods of development including infancy, childhood, adolescence and adulthood. The course will also look at personality development and psychological testing and the importance of each within the realm of psychology. This course will conclude with a look at psychological disorders and methods of treatment. Students will be assessed through homework, tests, quizzes, papers and participation in discussions. This course includes an on-line component, Blackboard, which requires students to have a basic understanding of computers and discussion forums. Students will be required to have completed Introduction to Psychology prior to enrolling in this class.

COGNITIVE PSYCHOLOGY**0.5 CREDIT****COURSE NUMBER: SOC 653****GRADE LEVEL: 10-12****1 TERM****PATHWAY: All****PREREQUISITES:** Introduction to Psychology (SOC 651)**NOTE:** *Not offered for the 2012 school year*

This course will look at cognitive aspects of psychology. Students will study learning, memory, intelligence, thinking and language. The course will also look at consciousness and altered states of consciousness including dreaming, hypnosis and drugs. The class will conclude with a look at social psychology including social cognition and social interactions. Students will be assessed through homework, tests, quizzes, papers and participation in discussions. This course includes an on-line component, Blackboard, which requires students to have a basic understanding of computers and discussion forums. Students will be required to have completed Introduction to Psychology prior to enrolling in this class.

INTRODUCTION TO PHILOSOPHY A**0.5 CREDIT****COURSE NUMBER: SOC 679****GRADE LEVEL: 11-12****1 TERM****PATHWAY: ALL****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 A will look at the historical basis of philosophy and how it relates to today's modern world. The class will look at Greek, Roman, and Eastern philosophies along with the ideas of the Renaissance and Enlightenment. The course will show how early philosophies relate to modern pop cultures, looking at television and movies and how many demonstrate the ideas of early philosophers. Students will be assessed through quizzes, homework, class discussions and journal writings.

INTRODUCTION TO PHILOSOPHY B**0.5 CREDIT****COURSE NUMBER: SOC680****GRADE LEVEL: 11-12****1 TERM****PATHWAY: ALL****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 B 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
GRADE LEVEL: 10-12
PREREQUISITES: NONE

0.5 CREDIT
I TERM

COURSE NUMBER: SOC605
PATHWAY: ALL

History on Film looks at the 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. Students will look at a variety of historical eras in United States history such as World War II, the Cold War, and the Eighties as shown in film. Basic critical approaches to film or film genres, focused on a particular topic will be utilized throughout the course. Students will be assessed through quizzes, homework, class discussions, and journal writings. *Pending Board Approval*

HISTORY OF SOCIETY & CULTURE A: Ancient Civilization
HISTORY OF SOCIETY & CULTURE B: Middle Ages
HISTORY OF SOCIETY & CULTURE C: Modern Era
GRADE LEVEL: 10-12

0.5 CREDIT
EACH

COURSE NUMBER: SOC 681-3
PATHWAY: ALL

PREREQUISITES: World History & Geography (SOC 101-102)

History of Society and Culture consists of 3 independent parts A, B, and C

NOTE: This course was previously titled "Humanities." Students may not repeat for credit.

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.

SPECIAL EDUCATION DEPARTMENT

ENGLISH LANGUAGE ARTS 9**GRADE LEVEL:** 9 or approval**PREREQUISITES:** Active IEPT**1.5 CREDIT****3 TERMS****COURSE NUMBER:** ENG 011-3**PATHWAY:** All

The focus of English Language Arts 9 is a fundamental and thematic approach to literature from around the globe by integrating communication processes such as reading, writing, listening, speaking and viewing. Reading comprehension and critical analysis of literary texts will extend into written and oral assessment formats for exposition, exploration and reflective purposes. Students will be exposed to structures of writing such as the short story, the novel, poetry, and various expository pieces. Students will need to show mastery of appropriate literary terms, the sentence, the expository paragraph and other grammatical formats.

ENGLISH LANGUAGE ARTS 10**GRADE LEVEL:** 10 or approval**PREREQUISITES:** Active IEPT & English 9 (ENG 011-012)**1.5 CREDIT****3 TERMS****COURSE NUMBER:** ENG 021-3**PATHWAY:** All

The focus of English Language Arts 10 is a fundamental and thematic approach to literature from around the globe by integrating communication processes such as reading, writing, listening, speaking, and viewing. Reading comprehension and critical analysis of literary texts will extend into written and oral assessment formats for exposition, exploration and reflective purposes. Students will be exposed to structures of writing such as the Argumentative Essay, Compare/Contrast Essay, Short Story and Poetry to show mastery of appropriate literary terms and grammatical formats.

ENGLISH LANGUAGE ARTS 11**GRADE LEVEL:** 11 or approval**PREREQUISITES:** Active IEPT & English 10 (ENG 021-022)**1.5 CREDIT****3 TERMS****COURSE NUMBER:** ENG 031-3**PATHWAY:** All

The focus of English Language Arts 11 is a fundamental and historical approach to American literature by integrating communication processes such as reading, writing, listening, speaking, and viewing as well as literary analysis. This course includes a series of special projects, both written and oral.

ENGLISH LANGUAGE ARTS 12**GRADE LEVEL:** 12 or approval**PREREQUISITES:** Active IEPT & English 11 (ENG 031-032)**1.5 CREDIT****3 TERMS****COURSE NUMBER:** ENG 041-3**PATHWAY:** All

The focus of English Language Arts 12 is to finalize basic communications skills in comprehending writing, speaking and understanding for both those students who intend to continue their education after high school and those who will have completed their education at the end of their high school career. This course includes a series of special projects, both written and oral. This course will concentrate on a basic survey of English and world literature, a grammar review, a comprehensive study of vocabulary pertinent to the everyday world, a chance to practice public speaking and a review of various types of writing. Several thematic units will be covered each semester. Additional readings and activities will be added at the teacher's discretion as time follows.

ALGEBRA I**GRADE LEVEL:** 9**PREREQUISITES:** Active IEPT**1.5 CREDIT****3 TERMS****COURSE NUMBER:** MTH 011-3**PATHWAY:** All

The focus of Algebra I is to create a knowledge and awareness of the basic principles used in mathematics. The topics that will be covered include properties of multiplication, division, addition, subtraction, and exponents; solving systems of equations, 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 in everyday without realizing it. The goal is to encourage students to continue to use formulas in order to simplify real-life situations. Units of study include writing equations, properties of equations, solving equations, graphing linear equations, solving and graphing linear inequalities, polynomials, simplifying square roots, properties of square roots.

GEOMETRY **1.5 CREDIT** **COURSE NUMBER: MTH 021-3**
GRADE LEVEL: 9-12 **3 TERMS** **PATHWAY: All**
PREREQUISITES: Active IEPT & Algebra I (MTH 011-012)
 The focus of Geometry is to create a knowledge and awareness of patterns, points, lines, planes, segments, reasoning and proofs, perpendicular and parallel lines, congruent triangles, perimeter, properties of triangles, quadrilaterals, transformations, similarity, right triangles and trigonometry, circles, area of polygons and circles, surface area and volume, and more. The class deals in the basic Euclidean Geometry and emphasizes using algebraic techniques. The aim of the course is to teach the Geometric concepts to students for use in the higher level math courses and real life applications.

WORLD HISTORY & GEOGRAPHY **1 CREDIT** **COURSE NUMBER: SOC 011-2**
GRADE LEVEL: 9 **2 TERMS** **PATHWAY: All**
PREREQUISITES: Active IEPT
 The focus of World History and Geography is to study the human community-how people lived on a daily basis, how they shared ideas, how they ruled and were ruled, and the settlement of human conflicts. Also included in the general study are the subjects of economics, politics, social changes, personal creativity, philosophy, and religious inspiration. An integration of geography will be incorporated throughout the course. Geographical aspects such as landforms, waterways, climate, and natural resources will be observed, while taking into consideration how they impacted people throughout history and the world.

U.S. HISTORY & GEOGRAPHY **1 CREDIT** **COURSE NUMBER: SOC 021-2**
GRADE LEVEL: 10 or approval **2 TERMS** **PATHWAY: All**
PREREQUISITES: Active IEPT & Teacher Approval
 U.S. History and Geography is a yearlong class that is designed to follow the regular education class with the exception of the pace of the class. The textbook used is the same as the regular education class. Expectations are similar with the exception that all students will be required to read aloud at least three times per week. Students will be expected to write reflectively on given topics, research aspects of history, and demonstrate understanding of history through projects, quizzes and tests. Basic Units of Study: Immigration, Native American Issues, Western, expansion, second Industrial Revolution, World War I, World War II, modern America and the cultural revolution of the 1960s.

CIVICS **1.5 CREDIT** **COURSE NUMBER: SOC 031-3**
GRADE LEVEL: 11 **3 TERMS** **PATHWAY: All**
PREREQUISITES: Active IEPT, World History (SOC 011-012), and U.S. History (SOC 021-022)
 The focus Civics is to create knowledge and awareness for the student of the development of early government to present day and show its significance at a societal and personal level. The objective is to allow students to have enough knowledge about the workings of government so that they may be active voters, aware of current events and law abiding citizens who are aware of occurrences around them and how they affect their lives. Basic Units of Study: Early government formation, types of governments, the United States Constitution, branches of government, rights of individuals, responsibilities of citizens, and political parties—importance and formation.

PSYCHOLOGY **1 CREDIT** **COURSE NUMBER: SOC 061-2**
GRADE LEVEL: 11-12 or approval **2 TERMS** **PATHWAY: All**
PREREQUISITES: Active IEPT & Teacher Approval
 The focus of Psychology is to create knowledge and awareness of Psychology as it relates to the way individuals interact in positive or negative ways in society. The course will explore body and mind, sensation and perception, learning and cognition, memory, thinking and language development, personality, health and adjustment, and social psychology. Students will learn how psychological development, cognition, social development and certain psychological disorders affect the development of a society.

TECHNOLOGY DEPARTMENT

MECHANICAL DRAFTING**GRADE LEVEL:** 9-12**PREREQUISITES:** None

This course is designed for those students who have an interest in the field of industry and engineering and for those who want a basic understanding of drafting. Drafting will be presented and practiced through a variety of drawings. This is an excellent, hands-on class, offering the students some practical applications of mathematics, problem-solving, and technical skills.

0.5 CREDIT**1 TERM****COURSE NUMBER:** TEC 201**PATHWAY:** BT/EMI**BEGINNING COMPUTER-AIDED DRAFTING****GRADE LEVEL:** 9-12**PREREQUISITES:** Mechanical Drafting (TEC 201)

This course is designed for those students who have successfully passed mechanical drawing and have an interest in the field of industry and engineering. A basic understanding of computer-aided drafting will be presented and practiced through a variety of drawings. This is an excellent hands-on class, offering the students some practical applications of math, problem-solving, and technical skills.

0.5 CREDIT**1 TERM****COURSE NUMBER:** TEC 202**PATHWAY:** BT/EMI**ADVANCED MECHANICAL DRAFTING/CAD I****GRADE LEVEL:** 10-12**PREREQUISITES:** Beginning Computer-Aided Drafting (TEC 202)

This course is designed to give students a strong background in the field of mechanical drafting and computer-aided drafting (CAD). A basic background of machine drafting and architecture are covered in this course. This is an ideal course for students interested in engineering, architecture, and CAD. Some basic units of study include: Multi-view, sectional views, auxiliary views, and assembly drawing (CAD).

1 CREDIT**2 TERMS****COURSE NUMBER:** TEC 301-2**PATHWAY:** BT/EMI**ADVANCED COMPUTER TECHNOLOGY****GRADE LEVEL:** 9-12**PREREQUISITES:** Application through Office of Technology

Advanced Computer Technology is an internship program in which the student works for the Gibraltar School District's Technology Department. Students will have hands-on computer work and will learn about the design and structure of a large Information Systems department. This course "**bridges the gap**" between the **academic** environment and a **future work environment**. This course allows students to have an "experience" in the Information Technology field, so they may understand, appreciate, and make informed decisions about pursuing higher education or employment in the field. Many employers prefer students who have **previous work experience**, and this internship course provides the valuable learning experiences that develop both technical and professional skills in an authentic environment.

0.5 CREDIT**1 TERM****COURSE NUMBER:** TEC 601**PATHWAY:** BT/EMI**SPORTS TELEVISION****GRADE LEVEL:** 10-12

Learn how to produce a three camera sports production including directing, hand held camera, and game camera. Students will be expected to cover at least one Carlson sporting event a week including evening or weekend times. Class time will be used for critiquing and sports highlight packages for the news.

Pending Board Approval**0.5 CREDIT****1 TERM****COURSE NUMBER:** TEC204**PATHWAY:** All**VIDEO JOURNALISM****GRADE LEVEL:** 10-12

This class will expose students to news writing for television, along with producing news packages on a daily basis. Students will be able to get on-camera experience, as a news reporter and possibly anchor. Students will research stories on the internet and edit them to be included in the Carlson news cast. Students will learn how to gather multimedia elements for producing a wide range of news stories.

Pending Board Approval**0.5 CREDIT****1 TERM****COURSE PATHWAY:** TEC203**PATHWAY:** All

VOCATIONAL COURSES

AUTO I**GRADE LEVEL:** 11-12**PREREQUISITES:** None

This course is designed to develop student knowledge and skills in basic automotive service and prepare students for Vocational Auto II for advanced study of automotive technology. Students will achieve proficiency in the basic knowledge and performance of automotive service assessed in accordance with NATEF standards (National Automotive Technician Education Federation). Basic units of study include: Automotive electricity and electrical systems, including electronics, brakes and braking systems, steering, suspension and engine performance.

3 CREDITS**3 TERMS****COURSE NUMBER:** 220GB01-3**PATHWAY:** BT/EMI**AUTO II****GRADE LEVEL:** 12**PREREQUISITES:** Auto I (220GB)

Advanced study of automotive service technology designed to further develop students' knowledge and skills. Students learning objectives for this course are to achieve proficiency in the advanced knowledge skills that are necessary to service modern automotives—assessed in accordance with NATEF standards. Basic units of study include: Automotive electricity and electronics—brakes and braking systems; suspension, steering, and engine performance.

3 CREDITS**3 TERMS****COURSE NUMBER:** 222GB01-3**PATHWAY:** BT/EMI**HEATING & COOLING I****GRADE LEVEL:** 11-12**PREREQUISITES:** None

This program is a job-entry preparation certificate in Heating, Ventilation, and Cooling for residential service. The course provides theory and hands-on exposure to basics of electricity, air conditioning, heating, and refrigeration technology.

3 CREDITS**3 TERMS****COURSE NUMBER:** 350GB01-3**PATHWAY:** BT/EMI**HEATING & COOLING II****GRADE LEVEL:** 12**PREREQUISITES:** Heating and Cooling I (350GB)

This program is intended for the student who would like to take the next step into the advanced residential and light commercial heating and cooling industry. Entry level theory and hands-on experience are provided, as well as advanced courses in domestic heating systems and the duct and sheet metal fabrication. Energy management, local codes, and system design will be covered.

3 CREDITS**3 TERMS****COURSE NUMBER:** 352GB01-3**PATHWAY:** BT/EMI**MARKETING I****GRADE LEVEL:** 11-12**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. Students will be required to be a member of DECA.

3 CREDITS**3 TERMS****COURSE NUMBER:** 750GB01-3**PATHWAY:** All**MARKETING II****GRADE LEVEL:** 12**PREREQUISITES:** Marketing A and B (BUS 201 & 202) or Vocational Marketing I (750GB)

Application and interview

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

3 CREDITS**3 TERMS****COURSE NUMBER:** 752GB01-3**PATHWAY:** All

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. Students will be required to be a member of DECA.

DIGITAL MEDIA & FILM I
GRADE LEVEL: 11-12
PREREQUISITES: None

3 CREDITS
3 TERMS

COURSE NUMBER: 950GB01-3
PATHWAY: BT/AC

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
GRADE LEVEL: 12
PREREQUISITES: Video Productions I (950GB)

3 CREDITS
3 TERMS

COURSE NUMBER: 952GB01-3
PATHWAY: BT/AC

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
GRADE LEVEL: 11-12
PREREQUISITES: None

3 CREDITS
3 TERMS

COURSE NUMBER: 710GB01-3
PATHWAY: BT/EMI

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
GRADE LEVEL: 12

3 CREDITS
3 TERMS

COURSE NUMBER: 712GB01-3
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.

ARCHITECTURAL DRAFTING I AND II

**3 CREDITS
3 TERMS**

LOCATION: Huron and Airport

GRADE LEVEL: 11-12

PREREQUISITES: Vocational Application Form

Architectural Drafting I & II covers architecture and the important fundamentals that deal with basic architectural symbols used in residential construction and provides an understanding of the arrangement of the various detail sections. Students will have the opportunity to be introduced to and utilize AutoCAD and become familiar with basic to advanced computer CAD techniques. Students will complete a set of house plans. Model construction may be a possibility.

AUTO BODY I

**3 CREDITS
3 TERMS**

LOCATION: Huron

GRADE LEVEL: 11-12

PREREQUISITES: Vocational Application Form

The purpose of this course is to teach students the basic fundamentals of auto body. These basics include: automotive construction, collision estimating, painting, metal finishing, assembly, basic frame alignment, basic upholstery, and glass replacement. Any student taking this course and then becoming skilled in one or more phases, can be a painter, metal finisher, estimator, insurance adjuster, glassman, assembler, shop manager, or go into business for him or herself.

AUTO BODY II

**3 CREDITS
3 TERMS**

LOCATION: Huron

GRADE LEVEL: 12

PREREQUISITES: Auto Body I and Vocational Application Form

This course is an advanced section of the Auto Body Program. Auto Body 1 students who show an active interest in the Auto Body occupations are recommended by the instructor for Auto Body 2. The Auto Body 2 course is designed for students to actually receive hands-on instruction in the repair and refinishing of the automotive body. The students will use the skills they have learned in Auto Body 1 and will repair automobiles with the use of estimates and repair orders. The students will develop skills to enter the auto body industry as apprentices upon completion of Auto Body Technology.

AVIATION I

**3 CREDITS
3 TERMS**

LOCATION: Willow Run Airport

GRADE LEVEL: 11-12

PREREQUISITES: Counselor Approval, ability to provide own transportation to Willow Run Airport, Vocational Application Form, Michigan Institute of Aviation Application, completion of Algebra with a C+ or better, acceptable school attendance, and limited after-school activity. This course includes both hands-on as well as classroom instruction. Through the close coordination of framework and power plant curriculum, the student is prepared to enter aviation and non-aviation industry at an entry level.

AVIATION II

**3 CREDITS
3 TERMS**

LOCATION: Willow Run Airport

GRADE LEVEL: 12

PREREQUISITES: Aviation I, ability to provide transportation to Willow Run Airport, and Vocational Application Form

This course is a continuation of Aviation Technician I. It includes both hands-on as well as classroom instruction. Through the close coordination of framework and power plant curriculum, the student is prepared to enter aviation and non-aviation industry at an entry level. Upon completion of Aviation Technician I and Aviation Technician II, the student is prepared and eligible to apply for licensing by the FAA as either an Airframe or Power Plant Technician Program.

**CABINET AND FURNITURE
MAKING I**

**3 CREDITS
3 TERMS**

LOCATION: Trenton

GRADE LEVEL: 11-12

PREREQUISITES: Vocational Application Form

This course provides entry-level and upgrade training in kitchen cabinet/furniture construction and provides students with a broad-based set of skills that is required by the wood products manufacturing industry and is directly transferable to the manufacturing sector in general. Students are introduced to the valuable skills necessary for entry-level employment or enter post-secondary wood programs. The program also includes state-of-the-art cabinetmaking equipment where students will learn how to operate machines to perform the necessary tasks safely, efficiently, and with a high degree of quality. This course stresses safety as the number one requirement to proper machine operation. Safe operating conditions will be described. The student is provided with entry-level and upgrade training in cabinet and furniture construction skills for making traditional face frame and European (32 mm) cabinet systems. Study includes cabinet analysis and design with the development of process route sheets, estimating, and bill of materials commonly used in modern industry. Special emphasis is placed on specifications of state of the art woodworking machinery, theory and lab machine safety.

**CABINET AND FURNITURE
MAKING II**

**3 CREDITS
3 TERMS**

LOCATION: Trenton

GRADE LEVEL: 12

PREREQUISITES: Cabinet and Furniture Making I and Vocational Application Form

This course allows students to perfect and hone skills acquired during our previous Cabinet and Furniture Making I course. Students will have laboratory experience using high performance woodworking machines. Emphasis will be placed on the student becoming more qualified to make individual machine set-ups producing high quality work accurately and efficiently. It is intended that this program will better prepare students for direct entry into the wood products industry after graduation, or for a smooth transition to post-secondary education and training programs. The mandate of this program is to insure that students are knowledgeable about the wood industry and the exciting, high growth potential careers it offers. We customize the delivery of our program to meet the specific needs of wood product manufacturers whether it is general wood manufacturing knowledge and skills, basic skills training, or specialized manufacturing. There will be a strong emphasis on kitchen cabinetmaking because it encompasses many of the fundamental processes. Joinery is the foundation of all cabinetry and many standard techniques will be detailed. Cabinets constructed in this course are used as a vehicle to instruct cabinet making techniques in drawer and door construction. Study includes cabinet analysis and design with the use of plans and bill of materials commonly used in modern industry.

CISCO NETWORKING

**3 CREDITS
3 TERMS**

LOCATION: Grosse Ile

GRADE LEVEL: 11-12

PREREQUISITES: Vocational Application Form

The Cisco Networking Academy Program provides a direct route to industry-standard certification. This program qualifies students to pursue a number of industry-standard certifications, including the Cisco Certified Networking Associate and Computing Technology Industry Association Network + certifications. CCNA is the first step in Cisco Certified Internetworking Expert (CCIE) certification, the industry's most respected certification for networking professionals.

COSMETOLOGY I & II

**3 CREDITS
3 TERMS**

LOCATION: MI College of Beauty

GRADE LEVEL: 11-12

PREREQUISITES: Vocational Application Form

Students must attend an orientation with a parent or guardian. Class is held Tuesday through Friday from 12:45 p.m. to 4:30 p.m. and on Saturday from 8:00 a.m. to 4:00 p.m. Students are required to attend class every Saturday. Students will get 750 hours of instruction. After 350 hours, students are allowed to work on clients. Students will acquire a thorough knowledge of: hairstyling, haircutting and shaping, permanent waving, shampoo, hair coloring, manicuring, and facial/scalp treatments. After completing 750 hours of instruction, students are eligible to take the state test to become a licensed cosmetologist.

DENTAL OCCUPATIONS I **3 CREDITS** **LOCATION:** Woodhaven
GRADE LEVEL: 11-12 **3 TERMS**
PREREQUISITES: Vocational Application Form
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 **3 CREDITS** **LOCATION:** Woodhaven
GRADE LEVEL: 12 **3 TERMS**
PREREQUISITES: Dental Occupations I and Vocational Application Form
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.

EMT/CRIMINAL JUSTICE I **3 CREDITS** **LOCATION:** Trenton
GRADE LEVEL: 11-12 **3 TERMS**
PREREQUISITES: Vocational Application Form and EMT Application
This course is combined with the Criminal Justice course making it a two-hour block class. This is an introductory course to the Emergency Medical Services. This course covers the minimal knowledge and skills necessary to provide lifesaving emergency care to the sick and injured. This includes a certification in CPR for the Healthcare Provider. The Criminal Justice course overviews the criminal justice system in the United States. Topics surveyed are the history of law enforcement, the political, sociological and philosophical background of police functions, and the criminal courts. Constitutional problems as they relate to the police function are surveyed and the use of recent technology in criminal justice is discussed. Students meeting Henry Ford Community College requirements will earn college credit as well as high school credit. These credits can be applied toward an associate degree in Paramedic, Risk Management, Fire Science or Criminal Justice.

EMT/CRIMINAL JUSTICE II **3 CREDITS** **LOCATION:** Trenton
GRADE LEVEL: 12 **3 TERMS**
PREREQUISITES: EMT/Criminal Justice I and Vocational Application Form
This course is combined with the Criminal Justice course making it a two-hour block class. The Criminal Justice course offered is a continuance of the program from Henry Ford Community College. The EMT course contains a laboratory component, which provides the technical knowledge and skills necessary for certification as a Basic Emergency Medical Technician (EMT-Basic). Students will complete ambulance and hospital emergency department rotations at the end of this course (all students must be 18 before attending the clinical experience).

GRAPHIC ARTS I **3 CREDITS** **LOCATION:** Woodhaven
GRADE LEVEL: 11-12 **3 TERMS**
PREREQUISITES: Vocational Application Form
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 **3 CREDITS** **LOCATION:** Woodhaven
GRADE LEVEL: 12 **3 TERMS**
PREREQUISITES: Graphic Arts I and Vocational Application Form
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**3 CREDITS****LOCATION:** Grosse Ile**GRADE LEVEL:** 11-12**3 TERMS****PREREQUISITES:** Vocational Application Form

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**3 CREDITS****LOCATION:** Wyandotte Hospital**GRADE LEVEL:** 12**3 TERMS****PREREQUISITES:** Health Occupations I and Vocational Application Form

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**3 CREDITS****LOCATION:** Riverview**GRADE LEVEL:** 11-12**3 TERMS****PREREQUISITES:** Vocational Application Form

The Hospitality and Food Services is a two-year program that offers the opportunity to acquire skills to prepare the student for a successful career entry or continuing education in the field of Food Service, Travel/Tourism, and Lodging occupations. The course will emphasize computational skills and knowledge; problem solving, reasoning, and decision-making skills; leadership skills; and social and employability skills. Students will gain practical experience working in the preparation and service of the student-operated school cafeteria, The Pirates' Den. Various areas of restaurant work such as management, food management and handling, waiter/waitressing, baking, and other duties are exposed throughout the year in a hands-on environment. It is recommended that this course be taken as a yearlong course, in that the skills learned in the first semester will be built upon for the second semester.

HOSPITALITY II**3 CREDITS****LOCATION:** Riverview**GRADE LEVEL:** 12**3 TERMS****PREREQUISITES:** Hospitality I and Vocational Application Form

This course builds and develops upon the skills learned in the first year. The course will reinforce computational skills and knowledge; problem solving, reasoning, and decision-making skills; leadership skills; and social and employability skills. Students will gain practical experience working in the preparation and service of the student-operated school cafeteria, The Pirates' Den. This course raises the level of expectation for culinary skills, and incorporates the basic methods and techniques of cooking into the class. Skills such as production of soups, stocks, and sauces, and methods of cooking such as sauté', broil, grill, deep-fry, and poach. Second year students are expected to set a tone, and exemplify professionalism in the kitchen. Some students may be eligible for an internship school-to-work program where, where students work at an outside facility instead of coming to class in order to obtain insight and exposure to the industry. Those who finish the two-year program will receive a certificate of completion for their portfolio enhancement.

COMPUTERIZED**3 CREDITS****LOCATION:** Huron**MACHINING/MECHATRONICS I****GRADE LEVEL:** 11-12**3 TERMS****PREREQUISITES:** Math background and Vocational Application Form

This course provides students with the basic skills and knowledge to enter industry as helpers or machine tool operators. The skills acquired would be used in such occupations as machinists, machine repair, layout, tool grinder, and tool room clerk. Experience will lead to specialization and students who continue their education after graduation into the community college or become apprentices have many opportunities for advancement. This course includes basic bench work, work-holding devices, blueprint reading, instrument and gauge use, engine lathe, milling machine, shaper and grinder operations. Tool and cutter grinding and heat-treating are also learned.

INTRODUCTION TO EDUCATION I **3 CREDITS** **LOCATION: Grosse Ile**
GRADE LEVEL: 11-12 **3 TERMS**

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

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 **3 CREDITS** **LOCATION: Grosse Ile**
GRADE LEVEL: 12 **3 TERMS**

PREREQUISITES: Introduction to Education I and approval of the instructor, vocational application form

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.

WELDING I **3 CREDITS** **LOCATION: Flat Rock**
GRADE LEVEL: 11-12 **3 TERMS**

PREREQUISITES: Vocational Application Form

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

WELDING II **3 CREDITS** **LOCATION: Flat Rock**
GRADE LEVEL: 12 **3 TERMS**

PREREQUISITES: Welding I and Vocational Application Form

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.

HEALTH OCCUPATIONS I **3 CREDITS** **LOCATION: Flat Rock**
GRADE LEVEL: 11-12 **3 TERMS**

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 **3 CREDITS** **LOCATION: Flat Rock**
GRADE LEVEL: 12 **3 TERMS**

PREREQUISITES: Health Occupations I and approval of the instructor. Orientation requirements fulfilled.

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.

