# TABLE OF CONTENTS

<table>
<thead>
<tr>
<th>Subject</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air Force Junior Reserve Officer’s Training</td>
<td>10</td>
</tr>
<tr>
<td>Art</td>
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<td>Auto Service Technology</td>
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<td>Broadcasting</td>
<td>31</td>
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<tr>
<td>Business Management &amp; Technology</td>
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<tr>
<td>Business</td>
<td>17</td>
</tr>
<tr>
<td>Finance/Accounting</td>
<td>18</td>
</tr>
<tr>
<td>Marketing</td>
<td>19</td>
</tr>
<tr>
<td>Web Design</td>
<td>20</td>
</tr>
<tr>
<td>Child Development/Careers in Education</td>
<td>21</td>
</tr>
<tr>
<td>Computer Programming</td>
<td>33</td>
</tr>
<tr>
<td>Construction Trades</td>
<td>32</td>
</tr>
<tr>
<td>CTE Completion Table</td>
<td>6</td>
</tr>
<tr>
<td>Culinary Arts</td>
<td>22</td>
</tr>
<tr>
<td>Cyber Security</td>
<td>34</td>
</tr>
<tr>
<td>Drama</td>
<td>15</td>
</tr>
<tr>
<td>Engineering (Science/Technology/Engineering &amp; Mathematics – STEM)</td>
<td>28</td>
</tr>
<tr>
<td>English</td>
<td>35</td>
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<tr>
<td>Forensics</td>
<td>15</td>
</tr>
<tr>
<td>Four Year Plan</td>
<td>8</td>
</tr>
<tr>
<td>General Courses</td>
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<tr>
<td>Community Service</td>
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<td>Peer Mediation</td>
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<td>Instrumental Music</td>
<td>12</td>
</tr>
<tr>
<td>Mathematics</td>
<td>43</td>
</tr>
<tr>
<td>Medical Education</td>
<td>27</td>
</tr>
<tr>
<td>NCAA Eligibility Center Requirements</td>
<td>9</td>
</tr>
<tr>
<td>Physical Education</td>
<td>41</td>
</tr>
<tr>
<td>Recommended Courses for College Admission</td>
<td>3</td>
</tr>
<tr>
<td>Science</td>
<td>48</td>
</tr>
<tr>
<td>Social Studies</td>
<td>52</td>
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</tr>
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<td>Vocal Music</td>
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<tr>
<td>German</td>
<td>39</td>
</tr>
<tr>
<td>Spanish</td>
<td>38</td>
</tr>
<tr>
<td>Yearbook</td>
<td>37</td>
</tr>
</tbody>
</table>

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

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

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

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

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

• Certain courses are offered off-campus (Anchor Bay Middle School – South). Check the course description to see if this applies to classes selected.

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

Please refer to Anchor Bay’s website for newsletters and additional information at www.anchorbay.misd.net

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

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

English 4 years
Mathematics 4 years
Science 3 – 4 years
Social Studies 3 years
World Language 2 years

NONDISCRIMINATION STATEMENT

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

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<thead>
<tr>
<th>DEPARTMENT / COURSE</th>
<th>CREDITS</th>
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<td><strong>Total</strong></td>
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<td><strong>World Languages</strong></td>
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<td><strong>Health and Physical Education</strong></td>
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<td>Physical Education</td>
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<tr>
<td><strong>Visual, Performing, Applied Arts</strong></td>
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<td><strong>Total</strong></td>
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<td><strong>Total Credits</strong></td>
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<td><strong>Total</strong></td>
<td>22.0 (and 8 semesters in a high school)</td>
</tr>
</tbody>
</table>

*Courses that can be used as a Math-Related credit (During Senior Year Only):*
(These courses do not qualify as an NCAA Core Course)

- AP Computer Science A
- AP Computer Science Principles
- Auto III
- Auto IV
- Business Management
- Computerized Accounting
- Engineering Design & Development
- Engineering Specialization
- Medical Education II
- Medical Education III
- Principles of Engineering

**Courses that can be used as a Science-Related credit (During Junior Year Only).** (These courses do not qualify as an NCAA Core Course)

- Principles of Engineering
- Engineering Design and Development
- Engineering Specialization
Career Technical Education and other courses which can be used as an Applied Arts Requirements:

- Advanced Graphic Arts
- Applied Technology
- Auto I, II, III & IV
- Business Web Design, I, II, III
- Careers in Education
- Child Development I & II
- Construction I, II, Advanced Construction Trades III & IV
- Cyber Security
- Engineering Design and Development
- Engineering Specializations
- Entrepreneurship
- Exploratory Foods
- Graphic Arts I
- Hospitality Management I, II, III, IV
- Introduction to Business Computer Technology
- Introduction to Engineering Design
- Introduction to Graphic Arts
- JROTC
- Landscape Design 1 & 2
- Marketing
- Medical Education I, II, & III
- Microsoft Office
- Principles of Engineering
- Yearbook
CTE COMPLETION TABLE

In order to be considered for CTE completion, a student must successfully complete the following:

For Medical Education:

Medical Education I (one-hour block), Medical Education II (two-hour block)

For Auto Technology:

All 4 Levels –
   Level 1 – Intro to Automotive Service Level 1
   Level 2 – Intro to Automotive Service Level 2 (pre-requisite is Level 1)
   Level 3 – Advanced Automotive Service Level 3 (pre-requisite is Level 2)
   Level 4 – Advanced Automotive Service Level 4 (pre-requisite is Level 3)

For Careers in Education:

Child Development I and Child Development II
   One Year of teacher cadet (two-hour block)

For Business Web Design:

Business Web Design I, II, & III

For Graphic Arts:

3 Semesters

For Culinary Arts:

4 semesters

For Engineering:

IED – Introduction to Engineering Design or IED – Introduction to Engineering Design for Girls
   POE – Principles of Engineering
   EDD – Engineering Design and Development

For Business Management:

   Intro to Business Computer Technology
   Microsoft Office
   Business Management

For Marketing:

   Entrepreneurship
   Marketing
For Construction Trades: 4 semesters
   Construction Trades I
   Construction Trades II
   Advanced Construction Trades III
   Advanced Construction Trades IV

For JROTC – All 4 years/8 semesters

For Landscape Design – 2 semesters
   Landscape Design I
   Landscape Design II

For Computer Programming – 2 semesters
   Programming I
   Programming II

* CTE COURSES MAY NOT BE REPEATED.
# Four-Year Plan

Goals are essential to your high school career. This form will help you design your four-year high school plan using graduation course requirements and electives. Remember that this plan should reflect your interests and skills, and should be **individualized to meet your needs.** Please be sure to include additional requirements as noted on Page 4.

## 9th Grade

<table>
<thead>
<tr>
<th><strong>First Semester</strong></th>
<th><strong>Second Semester</strong></th>
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<tbody>
<tr>
<td>English</td>
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<tr>
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## 10th Grade

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</tr>
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## 11th Grade

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## Alternate Choices for All Grades

(Combination of full year and semester courses to complete two hours)

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<tbody>
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NCAA Eligibility Center Requirements

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

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

All classes do not meet the NCAA standards for core courses. Be sure to check core class requirements on the websites above.
What we’re all about
Welcome to our multiple award-winning program! We are all about developing LEADERS. We encourage every student to step out of their comfort zone and try our course. THIS is where leaders are made. THIS is where you learn the habits, techniques, and secrets to succeed in and after high school—in college, a trade school or the work force. We challenge you to reach higher and farther towards goals you didn’t even think of, let alone realize. Become the person you wish you could be—develop positive character traits. Start a positive work ethic, and learn the skills necessary to live on your own.

Our Leadership Academy is a collection of full-year courses in which you may enroll for one, many, or all years of your high school career. Under exceptional circumstances, you may be permitted entry into JROTC at mid-year. Our courses and extracurricular offerings develop informed citizens with a strong sense of self-reliance and awareness of citizenship responsibilities in today’s global society. We strengthen character, help you build self-discipline, encourage high school completion and pursuit of higher educational goals, as well as provide unique leadership opportunities. Our program provides tremendous benefits for future employment, higher education, and military service if interested. There are many opportunities for you outside of class if you choose such as drill team (competition marching), marksmanship, RC aircraft and drones as well as model rocketry.

Benefits
Air Force JROTC courses are approved as Applied Arts, Physical Education and Second Year Foreign Language credits. Students completing one year of a JROTC class may use this credit to fulfill their Applied Arts requirement. In addition, successfully completing six (6) semesters of JROTC classes will allow you to waive the Physical Education requirement. Successfully completing program classes open up many scholarship, education, and employment opportunities and advantages unique to our JROTC classes. While the course is sponsored by the United States Air Force, there is no military obligation and instructors are not recruiters. Students do not incur any military obligation. Because of the Air Force sponsorship, there is a requirement to wear the blue Air Force uniform once a week; however, uniforms are provided free of charge. Students that complete 2-3 years in JROTC and want to join the military can earn 1-2 pay grade increases based on the branch of service they join. They can also get preferential selection for college ROTC or one of the Service Academies.
Course Offerings

LIFE SKILLS AND CAREER OPPORTUNITIES/CULTURAL STUDIES (7015/6) – FULL YEAR – 1 CREDIT (GRADES 9-12)

DESCRIPTION: Text: Leadership Education III: Life Skills and Career Opportunities and Cultural Studies: An Introduction to Global Awareness. This year will focus on developing your plan for future success after high school. This includes career and educational paths and goals; financial planning; applying for jobs; preparing a resume; and, developing career skills. These are all important topics to help ensure success after high school. We will also discuss the importance of global awareness, addressing the question of “How do events in our country and around the world affect me?” Finally, the class will include teambuilding activities, team sports, strategy games, and fitness. The course uses multimedia, guest speakers, field trips, and orienteering to enhance learning.

PREREQUISITE: None.

This is the forecast of course offerings for the next three years:

2021-2022 Survival/Fundamentals of Management
2022-2023 The Science of Flight/Citizenship
2023-2024 Aviation History/Communication, Awareness & Leadership

SENIOR CADET STAFF LEADERSHIP AND MANAGEMENT COURSE (7014) – FIRST OR SECOND SEMESTER - .5 CREDIT (GRADE 12)

DESCRIPTION: This is our premier leadership course. Students in this advanced leadership course are typically members of the AFJROTC cadet senior staff, and together they team to provide practical leadership training to cadets in the standard Air Force Junior ROTC Course. This hands-on experience affords students the opportunity to apply leadership and management lessons from previous AFJROTC courses. Students are expected to maintain a high level of performance in personal fitness, military bearing, and uniform wear. Students are assigned specific functional areas of responsibility and are expected to perform their duties/responsibilities in addition to mentoring and leading other members of the organization. Students approved for this course are expected to occasionally be available at times outside of daily classes (i.e., before/after school meetings, weekend trips/activities, etc.). Students will conduct long and short-range planning; exercise decision-making; and, demonstrate coordination, control, and execution of cadet organization activities during the school year. Students are expected to apply higher-level leadership, organizational, communication, and personal interaction skills in the performance of their duties. Students in this option are also required to establish and maintain a leadership journal or personal portfolio for periodic review by the Senior Aerospace Science Instructor and the Aerospace Science Instructor.

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

ART

INTRODUCTION TO ART (7504) - 1 SEMESTER – 1/2 CREDIT (GRADES 9-12)

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

Fulfills one semester of Applied Art credit.

ADVANCED ART (7534) - 1 SEMESTER – 1/2 CREDIT (GRADES 9-12)

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

PREREQUISITE: Introduction to Art and teacher approval.

Fulfills one semester of Applied Art credit.

INSTRUMENTAL MUSIC

CADET BAND (7601/2) - FULL YEAR - 1 CREDIT (GRADES 9-12)

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

PREREQUISITE: Middle School band experience.

9th GRADE SYMPHONIC BAND – (7661/2) - FULL YEAR - 1 CREDIT (GRADE 9)

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

PREREQUISITE: Middle School band experience with a successful audition or recommendation.
CONCERT BAND (7611/2) - FULL YEAR - 1 CREDIT (GRADES 9-12)

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

PREREQUISITE: Middle School or High School band experience.

SYMPHONIC BAND (7621/2 or 7625/6) - FULL YEAR - 1 CREDIT (GRADES 10-12)

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

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

WIND ENSEMBLE (7651/2) - FULL YEAR - 1 CREDIT (GRADES 10-12)

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

PREREQUISITE: High School band experience with a successful audition.

JAZZ ENSEMBLE (7631/2) - FULL YEAR - 1 CREDIT (GRADES 10-12)

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

PREREQUISITE: A successful audition including the ability to read standard notation.
MARCHING BAND (7641) - 1ST SEMESTER ONLY – 1/2 CREDIT (GRADES 9-12)

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

PREREQUISITE: Concurrently enrolled in another instrumental music course. Previous band experience or a successful audition.

VOCAL MUSIC

CONCERT CHOIR (7701/2) - FULL YEAR - 1 CREDIT (GRADES 9-12)

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

CHORALE (7711/2) - FULL YEAR - 1 CREDIT (GRADES 10-12)

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

PREREQUISITE: High School vocal music experience with a successful audition.

WOMEN’S CHOIR (7703/04) - FULL YEAR - 1 CREDIT (GRADES 10-12)

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

**DRAMA I (7904) - 1 SEMESTER – 1/2 CREDIT** (GRADES 9-12)

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

**ADVANCED DRAMA (7921/2) – FULL YEAR – 1 CREDIT OR (7924) 1 SEMESTER – 1/2 CREDIT** (GRADES 10-12)

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

PREREQUISITE: At least a “B” average in Drama I OR one year of successful participation in after-school drama productions; Drama Teacher Recommendation.

**FORENSICS (1081/2) – FULL YEAR – 1 CREDIT** (GRADES 9-12)

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

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

PREREQUISITE: Passing (“C” or better) English scores; English/Drama/Communications teacher recommendation.
LANDSCAPE DESIGN

**LANDSCAPE DESIGN I (5364) 1 SEMESTER – 2 HOURS - 1 CREDIT** (GRADES 10-12)

OFFERED AT MIDDLE SCHOOL SOUTH. SHUTTLE BUSSES WILL PROVIDE ALL TRANSPORTATION.

DESCRIPTION: An introduction into Landscape Design I is intended to give students the basic knowledge they need to be successful in landscaping and horticulture. Students will learn about plant biology, care and processing. Students will also investigate other products used by landscaping professionals. Topics covered include Botany Fundamentals, Leadership, Growing Methods/Crop Production, Soil & Growing Media, Plant Nutrition, Integrated Pest Management, and Safety. Emphasis of hands-on activities include outdoor planting, growing flowers in the greenhouse and assisting in the maintenance of the sports fields. Field trips will allow students to get first-hand look at the ever-expanding field of horticulture, as well as opportunities for employment. The class will participate in an annual Mother’s Day Flower Sale. The class is one semester in length and has no pre-requisites.

**LANDSCAPE DESIGN II (5366) 1 SEMESTER – 2 HOURS - 1 CREDIT** (GRADES 10-12)

DESCRIPTION: An introduction into Landscape Design II is intended to give students the basic knowledge they need to be successful in landscaping and horticulture. Students will learn about plant biology, care and processing. Students will also investigate other products used by landscaping professionals. Topics covered include Sustainable Horticulture, Leadership, Greenhouse Operations, Business Management, Greenhouse Industry Skills, Career Success, and Safety. Emphasis of hands-on activities include outdoor planting, growing flowers in the greenhouse, and assisting in the maintenance of the sports fields. Field trips will allow students to get a first-hand look at the ever-expanding field of horticulture, as well as opportunities for employment. The class will participate in an annual Mother’s Day Flower Sale. The class is one semester in length and has a pre-requisite of Horticulture I.
Students successfully completing the courses in this program may qualify for college credit through Articulation Agreements with various area colleges and universities. See the instructor and/or counselor for more information.

**INTRODUCTION TO BUSINESS COMPUTER TECHNOLOGY (5024) - 1 SEMESTER – 1/2 CREDIT**

**DESCRIPTION:** A project-based course designed to allow students to explore and learn various computer applications for personal and professional use. Skills acquired will help prepare students for success throughout higher levels of education and all levels of the workplace. The main focus of this course is on business applications including word processing, various programs and software, presentation graphics, exploration of career opportunities and business-oriented utilization of the Internet. Students must comply with the Student Handbook/Student Code of Conduct, and Internet/Computer Usage rules and policies.

This course satisfies ½ credit for the Applied Arts requirement.

**E-SPORTS MANAGEMENT (5042) - 1 SEMESTER – 1/2 CREDIT**

**DESCRIPTION:** Want to turn your passion for gaming into a viable career? E-sports Management focuses on the business of E-sports. Students will get the opportunity to explore the culture of E-Sports, its audience and fan base and explore different gaming genres. Students will be introduced to single player and multi-player events, create business plans to develop teams, create online communities and digital promotion. Participants will play and focus on League of Legends as well as various games.

**MICROSOFT OFFICE (5094) – 1 SEMESTER - 1/2 CREDIT**

**DESCRIPTION:** This course will continue to develop strong Microsoft skills and proficiency through Microsoft Office integration. Students will have the opportunity to complete Microsoft Office Specialist (MOS) Certifications. Certifications are highly valued and respected in today’s work environment.

This course satisfies ½ credit for the Applied Arts requirement.

**PREREQUISITE:** Introduction to Business Computer Technology recommended.
**BUSINESS MANAGEMENT (5111/5112) – 1 CREDIT**  (GRADES 11-12)

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

Careers in this path are related to the business environment:

- Accounting and Finance
- Business Law and Ethics
- Computer/Information Systems
- Economics
- Entrepreneurship
- Human Resources
- International Business
- Management and Logistics
- Office Administration
- Sports and Entertainment Marketing

**BUSINESS PROFESSIONALS OF AMERICA CLUB! Join the Business Club.**

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

This course fulfills the math-related credit.

**FINANCE/ACCOUNTING**

**COMPUTERIZED ACCOUNTING (5091/2) - FULL YEAR - 1 CREDIT**  (GRADES 10-12)

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

College Credit can be earned through articulation agreement.

**Fulfills fourth year math-related credit.**

**PREREQUISITE:** Introduction to Business Computer Technology & Microsoft Office would help with applications.

**INTERNSHIP PROGRAM OPPORTUNITIES FOR ALL CTE COURSES**

**CTE INTERNSHIP PROGRAM 6th Hour (5121/2) - FULL YEAR – 1 CREDIT**  (GRADE 12)

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

**PREREQUISITE:** Business Computer Technology/Microsoft Office; Business Administration preferred; departmental approval.
**MARKETING**

Students successfully completing the courses in this program may qualify for college credit through Articulation Agreements with various area colleges and universities. See an instructor and/or counselor for more information.

### ENTREPRENEURSHIP (5164) - 1 SEMESTER – 1/2 CREDIT (GRADES 9-12)

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

**This course satisfies ½ credit for the Applied Arts requirement.**

### MARKETING (5151/2) - FULL YEAR - 1 CREDIT (GRADES 10-12)

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

PREREQUISITE: Entrepreneurship

**This course satisfies 1 credit for the Applied Arts requirement.**

### STORE MANAGER (5191/2) - FULL YEAR - 1 CREDIT (GRADES 11-12)

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

PREREQUISITE: Entrepreneurship and Marketing courses. Marketing Teacher approval also required.
WEB DESIGN

BUSINESS WEBSITE DESIGN I (5104) - 1 SEMESTER - 1/2 CREDIT (GRADES 9-12)

DESCRIPTION: This course is an introduction to the world of Website Design! Students will start with learning the basics, HTML and JavaScript. Students will also learn Macromedia Products, including Dreamweaver, Fireworks and Flash. In addition, principals, practices, and procedures are taught in a broad sense that will apply to many different types of businesses. Students will enhance their skills through direct hands on projects, labs, open-book quizzes and research. Students will participate in many projects, which include, building a few websites of their own.

This course satisfies ½ credit for the Applied Arts requirement.

BUSINESS WEBSITE DESIGN II (5114) - 1 SEMESTER - 1/2 CREDIT (GRADES 9-12)

DESCRIPTION: Business Website Design II is a one-semester course, which builds upon Business Website Design I course. Students will enhance their existing website design skills through direct hands on projects, open-book quizzes, and simulation projects. Programs that may be covered are Dreamweaver, Fireworks, Flash and Freehand. Students will use digital cameras and camcorders to design an individual website during the semester. Students will assist teacher and other students in projects. Business Web Design I & II may be taken both semesters to have a full year of web design.

PREREQUISITE: Business Website Design I or Instructor’s Approval.

This course satisfies ½ credit for the Applied Arts requirement.

BUSINESS WEBSITE DESIGN III (5014) - 1 SEMESTER - 1/2 CREDIT (GRADES 10-12)

DESCRIPTION: Business Website Design III is a one-semester course, which builds upon Business Website Design I & II courses. Students will enhance their existing website design skills through direct hands on projects, open-book quizzes, and simulation projects. Students will assist teacher and other students in projects. There are many individual websites created during this course.

PREREQUISITE: Business Website Design I, Business Website Design II, or Instructor’s Approval.
**CHILD DEVELOPMENT/TEACHER CADET**

**CHILD DEVELOPMENT I (5204) - 1 SEMESTER – 1/2 CREDIT (GRADES 9-12)**

DESCRIPTION: Students will study factors that affect the growth and development of young children from conception through the first year of life. This includes a thorough study of prenatal influences and possible problems, pre and postnatal care, labor and delivery and the needs of the child newborn to 12 months. The four areas of development (physical, social, emotional and intellectual) will be a focus on the study of the whole child along with appropriate care and guidance for each stage discussed. The major project for this course is taking home a simulated baby.

This course satisfies 1/2 credit for the Applied Arts requirement.

**CHILD DEVELOPMENT II (5214) - 1 SEMESTER – 1/2 CREDIT (GRADES 9-12)**

DESCRIPTION: This class is a continuation of Child Development I. Students will study the four areas of a child's development from ages two to twelve. Theory, health and safety, positive guidance, special needs of children and careers with children will all be thoroughly addressed. Students will have the opportunity to observe in a childcare setting.

PREREQUISITE: Child Development I

This course satisfies 1/2 credit for the Applied Arts requirement.

**CAREERS IN EDUCATION (5241/2) - FULL YEAR - 2 HOURS/2 CREDITS (GRADES 11-12)**

DESCRIPTION: The Teacher Cadet class is an innovative, year long teacher training course designed for the student who is curious about going into the field of education. This course seeks to provide the student with an insight into many facts of education, including a work-based learning teaching opportunity. The main focus will be teaching, but the course does expand to all aspects of the field of education. Students will do a field work placement in an elementary or middle school classroom in the district.

PREREQUISITE: Juniors and Seniors, a completion of application which includes 3 teacher recommendation forms and an essay piece. The instructor will review all applications. Good attendance is required. Students need to have a G.P.A. of 2.0 or above and no major discipline infractions. Students are also responsible for their own transportation to and from the field placement (either as a driver to or with another student driver). See Counselor or instructor for details and application.

Recommended but not required Child Development I and II.
CULINARY ARTS

Students successfully completing the following Hospitality Management courses may qualify for college credit through Articulation Agreements with over 50 colleges and universities.

**EXPLORATORY FOODS (5294) - 1 SEMESTER – 1/2 CREDIT** (GRADES 9-12)

**OFFERED AT HIGH SCHOOL**

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

Completion of this course satisfies ½ credit for the Applied Arts requirement.

This course is equivalent to Hospitality I.

**HOSPITALITY MANAGEMENT I (5264) -1 SEMESTER - 2 HOURS/1 CREDIT** (GRADES 10-12)

IF OFFERED AT MIDDLE SCHOOL SOUTH. SHUTTLE BUSES PROVIDE ALL TRANSPORTATION.

DESCRIPTION: This course has a hands-on approach where students will acquire skills ranging from customer service to food production and safety to successful operation of our full service student-run restaurant. The Shoreliner Restaurant is open to the public for lunch as well as monthly buffets and other special catering events. Academic concentration will emphasize introduction to the foodservice industry, sanitation (Serv-Safe), workplace safety and kitchen essentials 1 and 2 which include professionalism and equipment identification as well as usage techniques.

COMPLETION OF THIS COURSE SATISFIES THE APPLIED ARTS REQUIREMENT.

**HOSPITALITY MANAGEMENT II (5272) –1 SEMESTER 2 HOURS /1 CREDIT** (GRADES 11-12)

IF OFFERED AT MIDDLE SCHOOL SOUTH. SHUTTLE BUSES PROVIDE ALL TRANSPORTATION.

DESCRIPTION: This course has a hands-on approach where students will continue acquiring skills ranging from customer service to food production and safety to successful operation of our full-service student-run restaurant. The Shoreliner Restaurant is open to the public for lunch as well as monthly buffets and other special catering events. Academic concentration will emphasize sanitation practices, production of stocks, sauces and soups, workplace communication, management essentials, fruits and vegetables, guest services, potatoes and grains and how to build a successful career in the industry. Prerequisite: Students must successfully pass Hospitality Management I to enroll in Hospitality Management II.
HOSPITALITY MANAGEMENT III (5284) – 1 SEMESTER 2 HOURS /1 CREDIT  (GRADES 11-12)

IF OFFERED AT MIDDLE SCHOOL SOUTH. SHUTTLE BUSSES PROVIDE ALL TRANSPORTATION.

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

HOSPITALITY MANAGEMENT IV (5286) – 1 SEMESTER 2 HOURS /1 CREDIT  (GRADES 11-12)

IF OFFERED AT MIDDLE SCHOOL SOUTH. SHUTTLE BUSSES PROVIDE ALL TRANSPORTATION.

DESCRIPTION: Building upon skills and knowledge acquired in Hospitality Management I, students will continue to learn recipe development, menu writing, cost control and staff scheduling. In addition, students are expected to take on leadership roles and serve as managers and Sous Chefs in the student-run restaurant. Academic concentration will emphasize meat, poultry and seafood, restaurant marketing, dessert and baked goods, sustainability in the restaurant and foodservice industry and global cuisine including American, European, Mediterranean, Middle Eastern, and Asian. Prerequisite: Students must successfully pass Hospitality Management III to enroll in Hospitality Management IV.

HOSPITALITY V (HOSPITALITY II, HOSPITALITY III OR HOSPITALITY IV (5254) – 1 SEMESTER 2 HOURS /1 CREDIT  (GRADES 11-12)

IF OFFERED AT MIDDLE SCHOOL SOUTH. SHUTTLE BUSSES PROVIDE ALL TRANSPORTATION.

DESCRIPTION: This course has a hands-on approach where students will continue acquiring skills ranging from customer service to food production and safety to produce food for the public. Building upon skills and knowledge acquired in Hospitality Management I, students will continue to learn course work related to Hospitality II, Hospitality III, or Hospitality IV. In addition, students will explore a variety of baked goods and desserts. The common concepts found in pastry and baking classes: Basic techniques, sanitation, breads, pies, cheesecakes, chocolates, and cakes (Fondant, mixing and production, design and decorating).

PREREQUISITES: Students must successfully pass Hospitality I.
AUTO SERVICE TECHNOLOGY

All automotive courses offered with Anchor Bay Community schools are designed to provide students with entry-level skills and training needed to enter the automotive service industry as an Auto Service Technician. Students completing the automotive program will be prepared to take the ASE maintenance and light repair certification test needed to enter the automotive service industry. Completers of the automotive service program will earn articulation credits to post-secondary education, a great asset with today’s rising educational costs. Automotive courses are looked upon as a foundation for many advanced positions such as CAD, CNC, and engineering in today’s industries. Students will have the ability to participate in Skills USA, Ford/AAA Student Skills Contest and in the annual MITES Auto Competition. Students will be provided all tools and equipment needed to complete all automotive courses. Coveralls and safety glasses will be provided. Students will work on donated vehicles, customer vehicles, and may have the opportunity to work personally owned vehicles. Automotive service Technology courses are at the middle school south. Shuttle busses will be provided for transportation. A prerequisite of “Introduction to Automotive Service” is required before preceding to further automotive courses.

ALL AUTO CLASSES ARE AT MIDDLE SCHOOL SOUTH. SHUTTLE BUSSES PROVIDE ALL TRANSPORTATION.

Auto 3 and Auto 4 can fulfill the 4th year math-related requirement if taken for a full year and have completed Auto Level I and Auto Level II.

Articulation Agreements – UNOH, UTI, Ohio Tech, Baker College, Ferris State University and local community colleges.

| INTRO TO AUTOMOTIVE SERVICE LEVEL 1 – (6364) ONE SEMESTER-2 HOURS-1 CREDIT |
| (GRADES 10-12) |

OFFERED AT MIDDLE SCHOOL SOUTH.

DESCRIPTION:

Introduction to Service
During the 1st quarter of the semester, enrolled students will be provided a basic understanding of automobile design and the ability to properly and safely perform basic service and repair procedures in the automotive industry. Students will learn to safely operate and utilize all shop equipment, electrically and air power equipment. First Aid, Chemical storage and disposal, Hazardous waste, Workplace debris handling, Ventilation Use of service manuals, flat rate manuals, bulletins, and troubleshooting charts, Internet resources will be introduced. Emphasis will be placed on developing diagnostic skills and interpreting specifications. Minor automotive service and introduction to automotive systems will be covered.

Braking Principles
During the 2nd quarter of the semester, enrolled students will focus on hydraulic Breaking System Operations, Diagnosis, and Service. Repairs include Master Cylinder, Drum, Disc and Anti-Lock Brake Systems Removal and Replacement of Brake System parts. Machining of Drums and Rotors, (on and off car) and Brake Fluid principles and fluid service will be included. Emphasis will be placed on Safety, tools and equipment use and proper techniques and diagnostic routines. This course will utilize a 75% hands-on experience for entry-level technician. Safety Glasses and protective clothing will be provided. Steel-toed shoes are recommended.
INTRO TO AUTOMOTIVE SERVICE LEVEL 2 – (6374)  ONE SEMESTER-2 HOURS - 1 CREDIT
(GRADES 10-12)

OFFERED AT MIDDLE SCHOOL SOUTH.

DESCRIPTION:

**Engine Principles**
Enrolled students during the 1st quarter will utilize service manuals, technical service bulletins (TSBs) and product information. Inspect engine assembly for fuel, oil, coolant, and other leaks. Check for abnormal engine noises, inspect and replace pans and covers. Students will change engine oil and filter, reset oil life monitoring systems. Inspect and test radiator, heater core, pressure cap, and coolant recovery systems, perform repairs on cooling system pressure and dye tests. Inspect, replace, and adjust belt tensioners and pulleys. Inspect and replace engine cooling systems and heater system’s hoses, pipes, and fittings. Remove and replace engine thermostat, inspect and test coolant; drain, flush, and refill cooling system with recommended coolant. This course will utilize an 80% hands-on experience for entry-level technician. Safety Glasses and Protective clothing will be provided. Steel toe shoes are recommended.

**Steering & Suspension**
Enrolled students during the 2nd quarter of the semester will focus on steering and suspension. Students will learn principles of hydraulics operations and preventative maintenance along with repairs. Students will learn steering angles, adjustments and replacement of wearable components, wheel bearings, pitman arm, drag /center link, tie rods, bushings, ball joints, and struts. The uses of hunter alignment systems will identify alignment-related symptoms such as vehicle wander, drift, pull and perform 4 wheel alignments. Students will inspect tire condition tread depth, size, and application. Mount & Dismount tires balance wheel and tire assemblies. Check and adjust tire air pressure, identify and test tire pressure monitoring systems. This course will utilize a 75% hands-on experience for entry-level technician. Safety Glasses and Protective clothing will be provided. Steel-toed shoes are recommended.

PREREQUISITE:  Intro to Automotive Service Level I.

ADVANCED AUTOMOTIVE SERVICE LEVEL 3 – (6384)  ONE SEMESTER-2 HOURS-1 CREDIT
(GRADES 10-12)

OFFERED AT MIDDLE SCHOOL SOUTH.

DESCRIPTION:

**Introduction of Electrical Systems**
During the 1st quarter of the semester students will study electrical and electronic theory. Enrolled students will develop a logic-based approach to diagnosis and repair of common automotive electrical problems. Scan Tools, Digital Volt Ohm Meters, and computer based Diagnostic Software will be used during lab. Students will service inspect or replace battery. Perform slow/fast battery charge in accordance with manufacturer. Perform charging system output test and identify undercharge, no charge, or overcharge condition. Inspect, adjust, and replace generator alternator drive belts, pulleys, and tensioners. Remove, inspect, and replace alternator. Inspect, replace, and aim headlights bulbs and auxiliary lights fog lights/driving lights. Completed simple circuits principles. This course will utilize a 70% hands-on experience for entry-level technician. Safety Glasses and Protective clothing will be provided. Steel toe shoes are recommended.

**Automatic & Manual Drive Train Principles**
Enrolled students during the 2nd quarter of the semester will focus on automatic and manual transmissions. Students will identify internal components for operation in both automatic and manual transmissions, entry-level diagnosis for simple faults and preventative maintenance. Students will identify drivetrain placement FWD vs RWD and 4X4. Students will determine transmission fluid type, level, and condition. Students will inspect transmission for leaks replace external seals, axles, drive shafts and powertrain mounts. Students will Inspect and replace drive shaft, half-shaft, and universal joints and Constant Velocity joints. This course will utilize a 65% hands-on experience for entry-level technician. Safety Glasses and protective clothing will be provided. Steel-toed shoes are recommended.

PREREQUISITE:  Intro to Automotive Service Level I and Level II.
ADVANCED AUTOMOTIVE SERVICE LEVEL 4 – (6394) ONE SEMESTER-2 HOURS-1 CREDIT
(GRADE 12)

Engine Performance/H.V.A.C.
Enrolled students during the 1st quarter students will learn engine designs/components, engine construction, air, fuel, ignition systems, exhaust, computer and emissions engine diagnostic tools and strategies for basic diagnostics testing. Principles in Chassis, Body and Engine Electrical Systems used in today’s Automobile.

Enrolled students will be introduced to Heating, Cooling and ventilation. Students will learn to verify HVAC operations, vent temperature, condenser fan, and compressor operation. Visually check A/C components, Inspect A/C condenser for restricted airflow. Inspect and replace cabin air filter. This course will utilize a 75% hands-on experience for entry-level technician. Safety Glasses and protective clothing will be provided. Steel-toed shoes are recommended.

Advanced Engine/Electrical Systems
Enrolled students during the second quarter will focus on internal components that complete a naturally aspirated gasoline engine. Students will be issued a complete engine assembly following course overhaul procedures, grouped students will completely disassemble engine to base block, measure all internal components then reassemble all components back to original manufacturing specifications. The use of multiple courses such as introduction to engine principles, electrical and drive-ability will set a foundation for enrolled students to complete this task. This course will utilize a 75% hands-on experience for entry-level technician. Safety Glasses and protective clothing will be provided. Steel-toed shoes are recommended.

PREREQUISITE: Intro to Automotive Service Level 1, II & III.
MEDICAL EDUCATION

Students successfully completing the courses in this program may qualify for college credit through Articulation Agreements with various area colleges and universities.

### MEDICAL EDUCATION I (5281/2) - FULL YEAR – 1 CREDIT (GRADES 9-12)

DESCRIPTION: Students will research and explore different healthcare careers through coursework, speakers, and job shadowing experiences. They will learn medical terminology, basic anatomy and first aid skills as they apply their knowledge in earning an American Heart Association CPR/AED/first aid certification. They will explore Healthcare delivery systems, their roles, responsibilities and functions within their healthcare community. Students will gain the understanding of medical ethics and legal practices within healthcare. They will use communication tools to grasp and demonstrate health and wellness skills that promote disease prevention.

### MEDICAL EDUCATION II (5291/2) - FULL YEAR – 2 HOURS/2 CREDITS (GRADES 10-12)

DESCRIPTION: Students will continue to research and study different health occupations during this two-hour block class. They will explore several jobs in depth, such as nurse assistant, physical therapy assistant, dental assistant, etc. Students go off site to job shadow at a local area health facility. Students will study Anatomy & Physiology. They will know the various methods of giving and obtaining information using medical terminology. Students will apply technical skills required for all career specialties and demonstrate skills and knowledge as appropriate. In this class students will learn employability skills. Students will learn how to use information technology applications required in the health care field. Students can qualify for our Internship Program through this class.

This course can count as a FOURTH YEAR MATH CREDIT.

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

### MEDICAL EDUCATION III (5311/2) - FULL YEAR – 2 HOURS/2 CREDITS (GRADE 12)

DESCRIPTION: During this two-hour block class, students will continue their studies in Medical Terminology, Human Anatomy and Physiology, and students will advance their learning in medical technical skills that will prepare them for the medical field. Students will experience hands-on learning of intravenous catheters, proper blood drawing techniques, types of injections, basic medication, medication administration, lung/heart sounds, Foley catheters, isolation precautions, etc. Students will choose a particular career and study it in depth at a beginning college level. Students also study Dimensional Analysis for Meds and have opportunities for job shadowing to continue their preparation for work in the medical field. Upon completion of their third year of Medical Terminology students may qualify for college credit through Articulation Agreements with various area colleges and universities. Students will be helping to organize a blood drive here at the high school.

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

This course can count as a FOURTH YEAR MATH CREDIT.
Students successfully completing at least a three – year sequence may qualify for credits at Macomb Community College through an Articulation Agreement. We also have Articulation Agreements with other Colleges & University.

Anchor Bay High School is a Partner Provider of the Project Lead the Way Engineering Program all courses listed below use PLTW curriculum.

**IED - INTRODUCTION TO ENGINEERING DESIGN FOR GIRLS (6035/6) – FULL YEAR – 1 CREDIT**

(Grades 9-12)

**DESCRIPTION:** This is a special section of the courses for Girls. Special field trips and topics will be included of particular interest to girls in STEM related fields. Students will utilize the engineering design process, applying math, science and engineering standards to hands-on projects. They will work both individually and in teams to design solutions to a variety of problems using 3-D modeling software, and document their work in engineering notebook. The instruction, assessment and communication in this course is delivered in an “on-line” learning environment. Students will be required to have internet access outside of class to complete assignments and assessments.

Completion of this course satisfies 1 credit for the Applied Arts requirement.

**IED - INTRODUCTION TO ENGINEERING DESIGN (6045/6) – FULL YEAR – 1 CREDIT**

(Grades 9-11)

**DESCRIPTION:** Students will utilize the engineering design process, applying math, science and engineering standards to hands-on projects. They will work both individually and in teams to design solutions to a variety of problems using 3-D modeling software, and document their work in engineering notebook. The instruction, assessment and communication in this course is delivered in an “on-line” learning environment. Students will be required to have internet access outside of class to complete assignments and assessments.

Completion of this course satisfies 1 credit for the Applied Arts requirement.

**POE - PRINCIPLES OF ENGINEERING (6057/8)-FULL YEAR-2 HOURS/2 CREDITS OR (6055/6) – FULL YEAR – 1 HOUR – 1 CREDIT**

(Grades 10-12)

**DESCRIPTION:** Students will solve engineering problems that engage and challenge, students to explore a broad range of engineering topics including energy, electronics, materials, structures, control systems, fluid power, robotics, statistics and kinematics. Students develop skills in problem solving research, and design while learning design process documentation, collaboration, and presentation. The instruction, assessment and communication in this course is delivered in an “on-line” learning environment. Students will be required to have internet access outside of class to complete assignments and assessments.

Completion of this course satisfies 1 credit for the Applied Arts requirement or can fulfill the fourth year math-related credit.

**PREREQUISITE:** IED- INTRODUCTION TO ENGINEERING DESIGN OR EQUIVALENT.
DESCRIPTION: This is the capstone course in the PLTW High School Engineering Program. It is an engineering research course in which students work in teams to design and develop an original solution to a valid open-ended technical problem by applying then engineering design process. Students who have completed the ES course can select projects from one of the disciplines they specialized in. Students apply the professional skills they have developed to be ready to take on any post-secondary program or career. Students will be required to have internet access outside of class to complete assignments and assessments.

Completion of this course satisfies 1 credit for the Applied Arts requirement or can fulfill the fourth year math-related credit.

PREREQUISITE: IED – INTRODUCTION TO ENGINEERING DESIGN & POE-PRINCIPLES OF ENGINEERING OR THEIR EQUIVALENTS.

DESCRIPTION: This is the course that students can specialize in one or more of an engineering discipline. PLTW offers the following choices – Aerospace Engineering, Civil Engineering and Architecture, Computer Integrated Manufacturing, Computer Science Principles, Digital Electronics, Environmental Sustainability. At the beginning of each semester, students will select from Video Game Design or any of the above listed options to focus on. Depending on the choices and make-up of the course not all choices will be available every semester. Students will be required to have internet access outside of class to complete assignments and assessments.

Completion of this course satisfies 1 credit for the Applied Arts requirement and can fulfill the fourth year math-related credit.

PREREQUISITE: None.
GRAPHIC ARTS

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

INTRODUCTION TO GRAPHIC ARTS (6164) - 1 SEMESTER – 1/2 CREDIT (GRADES 9-12)

DESCRIPTION: Students will learn by doing hands on projects in this class. The students will learn about graphics, printing, and the steps it takes to produce a job. They gain computer knowledge and advertising techniques designing and creating projects. They’ll use InDesign and be introduced to Photoshop. They produce a set of memo pads and business cards to keep as well as a couple other computer projects. The students will have access to the entire graphic class and the equipment to complete these assignments. Safety and quality will be constantly stressed.

This course satisfies ½ credit for the Applied Art requirement.

GRAPHIC ARTS I (6171/2) - FULL YEAR - 1 CREDIT (GRADES 9-12)

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

This course satisfies 1 credit for the Applied Art requirement.

ADVANCED GRAPHIC ARTS (6185/6) - FULL YEAR – 2 HOURS/2 CREDITS OR (6187/8) - FULL YEAR – 1 HOUR/1 CREDIT (GRADES 10-12)

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

PREREQUISITE: Graphic Arts I or Introduction to Graphic Arts.

This course satisfies 1 credit for the Applied Art requirement.
BROADCASTING

APPLIED TECHNOLOGY (1131/2) – FULL YEAR – 1 CREDIT

DESCRIPTION: This course offers students the opportunity to engage in the lively art of communication, generating commercials, PSA’s and daily school news broadcasts. Students gain exposure to and knowledge of this media by using technology. Students use a variety of resources in order to create their finished and publicly viewed products. Students film sporting events, produce and edit commercials and public service announcements. They also produce a daily broadcast that is shown to the school and played on Comcast Channel 6 two times a day.

The class is run as a “hands on” experience with the students filling all the roles found in an actual news broadcast. The students research the stories that they report on and can even do “in the field” assignments. One day they may be anchoring behind the news desk and the next time running the camera or directing. They even get a chance to run the sound board and toaster. The toaster is a VT-3 Editing Computer program that allows for the whole broadcast to be put together with the special effects, blue screen, news clips, and transitions. It is ONLY open to sophomores, juniors and seniors and can be taken as a one semester or full year course.

IN ORDER TO SUCCEED, STUDENTS WHO APPLY FOR THIS COURSE SHOULD BE SOCIALLY MATURE, SELF-MOTIVATED, AND ABLE TO WORK CLOSELY WITH OTHERS.

PREREQUISITE: Student must have a minimum of a C in English to take this course.

This course satisfies 1 credit for the Applied Art requirement.

APPLIED TECHNOLOGY (1133/1134) – FULL YEAR – 2 CREDITS

DESCRIPTION: This course offers students the opportunity to engage in the lively art of communication, generating commercials, PSA’s and daily school news broadcasts. Students gain exposure to and knowledge of this media by using technology. Students use a variety of resources in order to create their finished and publicly viewed products. Students film sporting events, produce and edit commercials and public service announcements. They also produce a daily broadcast that is shown to the school and played on Comcast Channel 6 two times a day.

The class is run as a “hands on” experience with the students filling all the roles found in an actual news broadcast. The students research the stories that they report on and can even do “in the field” assignments. One day they may be anchoring behind the news desk and the next time running the camera or directing. They even get a chance to run the sound board and toaster. The toaster is a VT-3 Editing Computer program that allows for the whole broadcast to be put together with the special effects, blue screen, news clips, and transitions. It is ONLY open to sophomores, juniors and seniors and can be taken as a one semester or full year course.

IN ORDER TO SUCCEED, STUDENTS WHO APPLY FOR THIS COURSE SHOULD BE SOCIALLY MATURE, SELF-MOTIVATED, AND ABLE TO WORK CLOSELY WITH OTHERS.

PREREQUISITE: Student must have a minimum of a C in English to take this course.

This course satisfies 1 credit for the Applied Art requirement.
CONSTRUCTION TRADES

CONSTRUCTION TRADES I - (6231) – SEMESTER – 1/2 CREDIT (GRADES 9-12)

DESCRIPTION: Designed to be an introduction to the construction industry. Topics covered are Safety, Health, & Environmental, Industry Overview, and Construction Tools & Equipment. Students will participate in our tool safety program which includes hammer, center punch, handsaw, hacksaw, drill, saber saw, jig saw, circular saw, miter saw, table saw, band saw, drill press, panel saw, planer, jointer, and combination sander. Students will be involved in hands-on projects, field trips, and will be introduced to professionals in the industry. The class is one semester in length and has no prerequisites.

PREREQUISITE: None.

CONSTRUCTION TRADES II - (6232) – SEMESTER – 1/2 CREDIT (GRADES 9-12)

DESCRIPTION: Designed to be an introduction to the construction industry. Topics covered are Employability and Technology Skills, Construction Materials, and Building Construction Design. Students will be involved in hands-on projects, field trips, and will be introduced to professionals in the industry. Our program will be partnering with Habitat for Humanity to offer students project based learning opportunities. The class is one semester in length and students must have completed Construction Trades I.

PREREQUISITE: Construction Trades I.

CONSTRUCTION TRADES III (6241) – SEMESTER – 1/2 CREDIT (GRADES 10-12)

DESCRIPTION: Designed to be an introduction to the construction industry. Topics covered are Common Construction Practices, Residential Construction Techniques, and Construction Business Management. Students will be involved in hands-on projects, field trips, and will be introduced to professionals in the industry. Our program will be partnering with Habitat for Humanity to offer students project based learning opportunities. The class is one semester in length and students must have completed or be currently enrolled in Construction Trades II.

This class can be taken simultaneously with the Construction Trades II course.

CONSTRUCTION TRADES IV (6242) – SEMESTER – 1/2 CREDIT (GRADES 10-12)

DESCRIPTION: Designed to be an introduction to the construction industry. Topics covered are Site Preparation and Infrastructure, Green Technology Construction Techniques, and Heavy Equipment/Civil Construction Techniques. Students will be involved in hands-on projects, field trips, and will be introduced to professionals in the industry. Our program will be partnering with Habitat for Humanity to offer students project based learning opportunities. The class is one semester in length and students must have completed or be currently enrolled in Construction Trades III.
COMPUTER PROGRAMMING

PROGRAMMING I (5524) - 1 SEMESTER – 1/2 CREDIT  (GRADES 9-12)

DESCRIPTION: This course is the first in a series of courses for any student interested in pursuing a career in Computer Science, Web Development, or Engineering. This course will introduce students to the basics of computer programming using the Python programming language. Students are introduced to programming basics, data basics, branching, looping, lists, dictionaries, functions, objects, and simple graphics. This course is designed for the beginning programmer.

PREREQUISITES: Algebra I (2035/6) “B-“ or better. Algebra A/B (2015/16) “B” or better. Tars Academy Algebra A/B (2015/6) “B” or better. Students must have earned 1 full credit in an Algebra I course and met the grade prerequisites before enrolling in Programming I.

RECOMMENDED: “B+” or better in Algebra I. “A” or better in Algebra A/B or Tars Academy Algebra A/B.

PROGRAMMING II (5534) - 1 SEMESTER – 1/2 CREDIT  (GRADES 9-12)

DESCRIPTION: This course is the second in a series of courses aimed at developing and preparing a student for a career in Computer Programming or Computer Science. Using the C++ programming language students are taught data basics, conditionals, looping, functions, library functions, files, structures, and arrays. This course is designed to help transition the beginning programmer into the intermediate programmer.

AP COMPUTER SCIENCE A (5551-2) - FULL YEAR – 1 CREDIT  (GRADES 10-12)

DESCRIPTION: This is a full year course designed for students pursuing a career in Programming, Business, Technology or Engineering. Students will learn the Programming language of Java. Students will engage in variable, strings, numeric functions, casting, operations, if, switch and for loops, binary hex and octal, classes and objects, array concepts, text files, bitwise operations, two dimensional arrays, exceptions, analysis, sorting, comparable, heaps and priority queues.

At the finish, the student will have the option of taking the AP Examination for Computer Programming.

PREREQUISITES: Completion of Programming I and II approval of teacher.

AP COMPUTER SCIENCE PRINCIPLES (5556) - FULL YEAR – 1 CREDIT  (GRADES 10-12)

DESCRIPTION: This is a full year course designed for students pursuing a career in Programming with Business and Technology. This course will focus on “real world” employability skills. Students will learn the Programming language of Java. Students will engage in variable, strings, numeric functions, casting, operations, if, switch and for loops, binary hex and octal, classes and objects, array concepts, text files, bitwise operations, two dimensional arrays, exceptions, analysis, sorting, comparable, heaps and priority queues as applied to the work world of business.

At the finish, the student will have the option of taking the AP Examination for Computer Science Principles.

AP students may take both AP Computer Science A and AP Computer Science Principles. Business Professionals of America Club Participation is highly recommended.

CYBER SECURITY
DESCRIPTION: A new emerging area in computer information technology. Cybersecurity will explore concepts of safety on the internet, information protection, programming language, cryptic coding, technology law, ethical cyber hacking and much more. Students may be interested in working for government agencies or in private industry with one of the following certifications.

- CompTIA Security +
- CEH: Certified Ethical Hacker
- GSEC: SANS GIAC Security Essentials
- CISSP: Certified Information Systems Security Professional
- CISM: Certified Information Security Manager
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**INTRO AMERICAN LITERATURE (1001/2) - FULL YEAR - 1 CREDIT**

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

**HONORS INTRO AMERICAN LITERATURE (1017/8) (1017/8A) - FULL YEAR - 1 CREDIT**

**DESCRIPTION:** This course will progress at an accelerated rate and require the student to think critically by analyzing and synthesizing information from language and literature. Students will demonstrate knowledge and application of writing skills. Standard usage, functional grammar, correct spelling and punctuation are emphasized in writing assignments. Oral communication skills will focus on intelligent and thoughtful responses to literature presented. Students will also explore the various forms of literature including in-depth study of 3-4 additional novels. The study of grammar will focus on grammar, usage and mechanics.

A summer reading novel with a coordinating assignment will be required. A test on the summer reading novel will also be given.

**PREREQUISITE TO REQUEST:** A- average in 8th grade English or B or better on Honors 8th grade English semester exam or a B in Honors English Semester 1.

**WESTERN LITERATURE (1021/2) – FULL YEAR - 1 CREDIT**

**DESCRIPTION:** This course continues the development of oral and written communication. The written communication section of the class will focus on process writing skills to communicate effectively with a variety of audiences. As part of the writing process students will use the library and other resources to develop a knowledge base for a research paper. Students will be taught how to use online databases. Standard usage, functional grammar, and correct spelling are emphasized. The study of literature will include fiction and informational reading. Process writing will continue in the literature portion of the course via literary analyses papers.
HONORS WESTERN LITERATURE (1027/8) (1027/8A) – FULL YEAR - 1 CREDIT (GRADE 10)

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

PREREQUISITE TO REQUEST: B- average in Honors English 9 (or teacher approval) OR an A- average in English 9 (through first 3 marking periods).

AMERICAN LITERATURE (1041/2) – FULL YEAR - 1 CREDIT (GRADE 11 - REQUIRED)

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

ADVANCED PLACEMENT LANGUAGE AND COMPOSITION (1047/8) (1047/8A) – FULL YEAR - 1 CREDIT (GRADE 11)

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

PREREQUISITE TO REQUEST: B- average in honors 10 English (or teacher approval) or A- average in English 10.

ENGLISH 12

ADVANCED PLACEMENT ENGLISH LITERATURE AND COMPOSITION (1071/2) (1071/2A) – FULL YEAR - 1 CREDIT (GRADE 12)

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

PREREQUISITE TO REQUEST: B- average in AP Language and Composition (or teacher approval) OR an A- average in English 11.
ENGLISH 12 CHOICES

The following are English Options for 12th grade students. Students in the Honors program who elect Advanced Placement English are not required to elect any other English 12 choice.

### NOVELS (1084) - 1 SEMESTER – 1/2 CREDIT

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

### WRITING (1114) - 1 SEMESTER – 1/2 CREDIT

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

### BRITISH LITERATURE - (1055/6) – FULL YEAR - 1 CREDIT

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

### ENGLISH ELECTIVES

*Does not meet the English graduation requirements*

### YEARBOOK (1141/2) - FULL YEAR - 1 CREDIT

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

**PREREQUISITE:** Instructor’s approval.

Each semester of this course satisfies ½ credit for the Applied Arts requirement.
WORLD LANGUAGES

FRENCH

FRENCH I (1501/2) - FULL YEAR - 1 CREDIT (GRADES 9-12)

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

FRENCH II (1511/2) - FULL YEAR - 1 CREDIT (GRADES 10-12)

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

PREREQUISITE: French I.

FRENCH III (1521/2) - FULL YEAR - 1 CREDIT (GRADES 11-12)

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

PREREQUISITE: French II.

FRENCH IV (1531/2) - FULL YEAR - 1 CREDIT (GRADES 11-12)

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

PREREQUISITE: French III.

SPANISH

SPANISH I (1541/2) - FULL YEAR - 1 CREDIT (GRADES 9-12)

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

SPANISH II (1551/2) - FULL YEAR - 1 CREDIT (GRADES 9-12)

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

PREREQUISITE: Spanish I.
SPANISH III (1561/2) - FULL YEAR - 1 CREDIT  (GRADES 10-12)

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

PREREQUISITE: Spanish II

SPANISH IV (1571/2) - FULL YEAR - 1 CREDIT  (GRADES 11-12)

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

PREREQUISITE: Spanish III

GERMAN

GERMAN I (1651/2) - FULL YEAR - 1 CREDIT  (GRADES 9-12)

DESCRIPTION: German I is designed to introduce students to the German language and culture. Emphasis is placed on basic speaking, listening, reading and writing skills. Students explore and learn the relationships between the American and Germanic cultures.

GERMAN II (1661/1662) - FULL YEAR - 1 CREDIT  (GRADES 10-12)

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

PREREQUISITE: German I.
GENERAL COURSES

COMMUNITY SERVICE (8014) – 90 HOURS – 1/2 CREDIT / 180 HOURS 1 CREDIT (MAX 1 CR)
(GRADES 9-12)

DESCRIPTION: Community service is volunteer work for a non-profit organization. The student should not receive pay or any form of reimbursement for their hours. The service should be for the benefit of others. The student may complete hours at one or more organizations. Hours may accumulate over successive semesters starting with Grade 9. All hours must be completed by the second week in May of the senior year. A maximum of 1 credit can be completed. A tracking sheet of hours, evaluation of student by organization, student evaluation of volunteer work and an essay is required after hours are completed. Appropriate credit will be granted after all paperwork is done and submitted to the Counseling office.

PREREQUISITE: Requires appointment with Community Service Coordinator.

PEER MEDIATION AND LEADERSHIP (8074) - FULL YEAR – 1 CREDIT (8075)
(GRADES 11-12)

DESCRIPTION: This elective class instructs students in resolving peer disputes that interfere with the education process. Mediation training and practice will allow students to aid classmates in learning to address problems in effective ways. In addition to enhancing mediation skills, students will also focus on leadership curriculum. Students will complete weekly leadership assignments and read about and research effective leaders. As a major focus of the class, students will plan, implement, and evaluate service projects. Through this practice, students will be challenged to understand leadership and to identify a path to becoming an effective leader.

PREREQUISITE: Special approval by teacher; no unexcused absences or tardies and less than nine excused absences and excused tardies total for prior semester. No major discipline referrals. You must hold a valid driver’s license, drive to school in your own vehicle and be eligible for a parking pass. You will be traveling to the Middle Schools for abstinence mentoring program.

E2020 ON-LINE LEARNING (1204) - 1 SEMESTER - 1/2 CREDIT
(GRADES 10-12)

DESCRIPTION: The E2020 courses are a credit retrieval program that is available to students who meet program requirements. See your counselor for details.

MICHIGAN VIRTUAL UNIVERSITY (90000) - 1 SEMESTER - 1/2 CREDIT
(GRADES 9-12)

DESCRIPTION: On-line classes offered by the State of Michigan.

DUAL ENROLLMENT(9501/2), EARLY COLLEGE - (9520) – 1 SEMESTER - 1/2 CREDIT
(GRADE 9-12)

DESCRIPTION: THESE COURSES ARE AVAILABLE FOR QUALIFYING STUDENTS. SEE YOUR COUNSELOR FOR DETAILS.
HEALTH/PHYSICAL EDUCATION

Note - The one semester physical education requirement for graduation can be met by taking marching band or ROTC for three years.

HEALTH (8504) - 1 SEMESTER – 1/2 CREDIT (GRADES 9-12)

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

PHYSICAL EDUCATION (8564) - 1 SEMESTER – 1/2 CREDIT (GRADE 9)

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

All students will be subjected to standardized physical fitness testing each quarter and also during the final exam period.

WEIGHT LIFTING/SPORTS ACTIVITIES (8594) – 1 SEMESTER – 1/2 CREDIT (GRADES 9-12)

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

All students will be subjected to standardized physical fitness testing each quarter and also during the final exam period.

ADAPTIVE PHYSICAL EDUCATION (8551/2) FULL YEAR - 1 CREDIT (GRADES 9-12)

DESCRIPTION: This yearlong course is designed to meet the needs of students who will benefit from an individualized physical education program.

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

MATH – 4.0 Credits required in High School
Sequence Chart

<table>
<thead>
<tr>
<th>9th Grade</th>
<th>10th Grade</th>
<th>11th Grade</th>
<th>12th Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>TARS Academy</td>
<td>TARS Academy</td>
<td>Algebra II -Part 1 &amp; 2</td>
<td>Algebra II – Part 3 &amp; 4</td>
</tr>
<tr>
<td>Algebra I</td>
<td>Geometry</td>
<td>Algebra II or</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>Algebra II Part 1/Part 2</td>
<td></td>
</tr>
<tr>
<td>Geometry</td>
<td>Algebra II</td>
<td>Precalculus or Stats</td>
<td>Senior Math</td>
</tr>
<tr>
<td>Honors Geometry</td>
<td>Honors Algebra II</td>
<td>Honors Precalculus or Stats</td>
<td>AP Calculus or Senior Math</td>
</tr>
<tr>
<td>Honors Geometry</td>
<td>Honors Precalculus</td>
<td>AP Calculus</td>
<td>Calculus II &amp; III</td>
</tr>
<tr>
<td>Honors Algebra II</td>
<td></td>
<td></td>
<td>(Dual Enrollment)</td>
</tr>
</tbody>
</table>

**ALGEBRA I - (2035/6) - FULL YEAR – 1 CREDIT** (GRADE 9)

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

PREREQUISITE: At least a C- in Course 3 8th Grade.

RECOMMENDED: Calculator TI-83 or TI-84.

**FRESHMAN TARS ACADEMY**

The Freshman Tars Academy is the first year of a two year sequence for math and science. This two year academy is designed for students who would benefit from support in transitioning from middle school to high school, need to build foundations in math (and science) and would benefit from teacher consistency. Enrollment for this course is based on teacher, counselor or administrator recommendations.

**TARS ACADEMY ALGEBRA I - (2005/6) –FULL YEAR–1 CREDIT** (GRADE 9)

DESCRIPTION: The Tars Academy Algebra class is to be taken concurrently with the Tars Academy Biology Class. This course focuses on acquiring success in the study of algebraic skills and concepts. The goal is to have students develop sufficient computational, procedural, and problem solving skills to provide a solid foundation for further study in mathematics. During this course the emphasis will be developing skills of problem solving, solving and graphing linear equations, and applications of systems of linear equations, introduction to exponents, polynomials, radicals and factoring.

REQUIRED: Must also request Tars Academy Biology

NOTE: This course does not qualify as an NCAA course.

RECOMMENDED: Scientific Calculator.
TARS ACADEMY GEOMETRY - (2041/2) - FULL YEAR – 1 CREDIT (GRADE 10)

DESCRIPTION: This course is intended for the Tars Academy student to continue their correct math sequence in 10th grade and is to be taken concurrently with Tars Academy Chemistry. This course is the 2nd year of a 2-year cohort designed for those students who will benefit from teacher consistency, generally smaller class sizes, and weekly study hall periods. Students will focus on key concepts in the following areas: reasoning and proofs, parallel and perpendicular lines, congruent triangles, relationships within triangles, quadrilaterals, area of figures, similarity of figures, right triangle trigonometry, circles and surface area and volume. Graphing calculators will be provided for in class work.

RECOMMENDED: Calculator TI-83 or 84.

GEOMETRY (2045/6) - FULL YEAR - 1 CREDIT (GRADE 10)

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

RECOMMENDED: Calculator TI-84 Plus or TI-84 Silver.

ALGEBRA II (P1/P2) (2055/6) FULL YEAR - 1 CREDIT (GRADE 11)

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

PREREQUISITE: A “C-” or lower in Algebra 1 Semester 2. Must take Algebra II (P3/P4) – Course 2057/8 as a Senior.

RECOMMENDED: Calculator TI-83 Plus or TI-83 Silver.

NOTE: This course does not qualify as a NCAA full core course. Partial credit only is given. Requires all four parts to receive one core credit.
ALGEBRA II (P3/P4) (2057/8) FULL YEAR - 1 CREDIT (GRADE 12)

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

PREREQUISITE: Algebra II (P1/P2).

RECOMMENDED: Calculator TI-84 Plus or TI-84 CE.

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

ALGEBRA II (2051/2) FULL YEAR - 1 CREDIT (GRADES 10-12)

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

PREREQUISITE: At least a C in Algebra I Semester 2.

RECOMMENDED: Calculator TI-83 Plus.

STATISTICS (2111/2) - FULL YEAR - 1 CREDIT (GRADE 12)

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

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

PREREQUISITE: Successful completion of Geometry.

RECOMMENDED: Graphing calculator TI-84 preferred.
PRE-CALCULUS – (2065/6) – FULL YEAR - 1 CREDIT

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

PREREQUISITE: At least a C- in Algebra II.

RECOMMENDED: A graphing calculator TI-83 Silver or TI-84.

HONORS MATH PROGRAM

Honors courses progress at a fast pace covering the greatest breadth and depth of topics. Students are expected to have mastered the skills and thoroughly understood the concepts covered in prior courses. They are expected to have retained this past knowledge, which will generally not be reviewed in the course. Mathematical concepts are often introduced at an abstract and theoretical level. Students will be expected to apply their knowledge to open-ended and non-routine problems. Students are expected to be highly self-motivated, taking the fullest responsibility for their own learning and seeking help when needed.

HONORS GEOMETRY (2017/8) (2017/8A) - FULL YEAR – 1 CREDIT

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

PREREQUISITE TO REQUEST: At least a B+ on Algebra I semester exam.

RECOMMENDED: Graphing Calculator such as a TI-84 Plus or equivalent.

HONORS ALGEBRA II (2027/8) (2027/8A) - FULL YEAR – 1 CREDIT

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

Students should have access to a graphing calculator on a daily basis.

PREREQUISITE TO REQUEST: At least a B- in Honors Geometry or an A- in Geometry and A- in Algebra I second semester.

RECOMMENDED: Graphing calculator TI-84 preferred.
HONORS PRE-CALCULUS (2037/8) (2037/8A) – FULL YEAR – 1 CREDIT (GRADES 11-12)

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

PREREQUISITE TO REQUEST: At least a B- in Honors Algebra II (or teacher approval) or A- in Algebra II.

RECOMMENDED: Graphing calculator such as TI-83 Plus or equivalent. Students taking this class should have daily access too a graphing calculator.

ADVANCED PLACEMENT CALCULUS AB (2101/2) - FULL YEAR - 1 CREDIT (GRADE 12)

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

PREREQUISITE TO REQUEST: At least a B- in Honors Pre-Calculus (or teacher approval) or at least an A- in Pre-Calculus.

RECOMMENDED: Graphing calculator such as TI-83 Plus or equivalent.
<table>
<thead>
<tr>
<th>9th Grade</th>
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</tr>
</thead>
<tbody>
<tr>
<td>TARS Academy Biology A/B</td>
<td>TARS Academy Chemistry/Physics</td>
<td>Earth &amp; Space Science</td>
<td></td>
</tr>
<tr>
<td>Biology</td>
<td>Chemistry/Physics</td>
<td>Earth &amp; Space Science</td>
<td>Physics and/or Honors Human Physiology (Can be taken as elective)</td>
</tr>
<tr>
<td>Honors Biology</td>
<td>Honors Chemistry</td>
<td>AP Chemistry</td>
<td>Physics and/or Honors Human Physiology</td>
</tr>
</tbody>
</table>

**TARS ACADEMY BIOLOGY A/B – (3005/6) – FULL YEAR – 1 CREDIT (GRADE 9)**

**DESCRIPTION:** The Tars Academy Biology class is to be taken concurrently with the Tars Academy Pre-Algebra class. This is a full year Freshman biology class which follows core topics including: cells, processes within the cells, organization of living things, heredity, evolution, and ecology. Activities and laboratory experiences related to the curriculum will be included in the course.

**REQUIRED:** Must also request Tars Academy Pre-Algebra.

**NOTE:** This course does not qualify as a NCAA core course.

**BIOLOGY (3021/2) - FULL YEAR - 1 CREDIT (GRADE 9)**

**DESCRIPTION:** A one-year course in which the following core curriculum topics will include cells, organization of living things, heredity, evolution and ecosystems. Laboratory activities related to each of the above topics of study are included.

**HONORS BIOLOGY (3017/8) - FULL YEAR - 1 CREDIT (GRADE 9)**

**DESCRIPTION:** Honors Biology is a fast-paced, rigorous course in which the student is expected to be highly motivated. This course will cover all of the topics in biology at a faster pace in order to allow for additional exploration of the topics at a deeper level. There is an emphasis on higher order thinking skills, laboratory investigations, collaborative learning projects, problem solving activities, and bio-ethical discussions.

**PREREQUISITE TO REQUEST:** “A – “average in 8th grade science or “B” or better on Honors Biology semester exam.
TARS ACADEMY CHEMISTRY AND PHYSICS (3047/8) - FULL YEAR - 1 CREDIT

(GRADE 10)

Tars Academy Chemistry and Physics is to be taken concurrently with Tars Academy Geometry. This is the 2nd year of a 2-year cohort designed for those students who will benefit from teacher consistency, smaller class sizes, and weekly study hall periods. During the semester of Chemistry, students will study atomic structure, matter, particle diagrams, physical and chemical changes along with the periodic table. During the semester of physics students will be learning about the matter in motion, forces and motion along with work and machines. Students will be engaged in experiments and in-class activities involving various chemicals or apparatuses in order to learn or demonstrate understanding of physics and chemistry concepts.

Recommended: Scientific calculator or Graphing Calculator (TI83/84).

Required: must be enrolled in Tars Academy Geometry.

CHEMISTRY (3064 – 1 SEMESTER – 1/2 CREDIT)

(GRADE 10)

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

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

RECOMMENDED: Calculator (Scientific or Graphing).

HONORS CHEMISTRY (3074) – 1 SEMESTER – 1/2 CREDIT

(GRADE 10)

DESCRIPTION: This course is intended for students with an interest in science and math, especially those interested in pursuing a career in a science or math field.

This course will cover the same topics as Chemistry I. Most topics will be covered more comprehensively. Students will also cover additional chemistry topics in preparation for AP Chemistry or College Chemistry. Relative to Chemistry I, this course will be much more math-intensive.

PREREQUISITE TO REQUEST: Students need an A- average in Algebra I and Biology or B- in Honors Biology and Honors Geometry.

RECOMMENDED: Calculator (Scientific or Graphing).
ADVANCED PLACEMENT CHEMISTRY (3071/2) - FULL YEAR - 1 CREDIT (GRADES 11-12)

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

Recommended: Student has completed Algebra I.

PREREQUISITE TO REQUEST: B- in Honors Chemistry I (or teacher approval) or an A- in Chemistry I.

EARTH AND SPACE SCIENCE (3191/2) - FULL YEAR - 1 CREDIT (GRADE 11)

DESCRIPTION – Earth & Space Science is a course designed to provide students with an introduction to earth & space concepts. This includes, but is not limited to, the history of the Earth, Earth’s systems, weather & climate, human sustainability, space systems, as well as additional key topics. Students will investigate essential earth & space concepts, will acquire a better understanding of the role the earth plays in each individual’s life, and will be encouraged to develop an inquiry-based mind-set.

Laboratory experiences will play a role in developing each student’s understanding of key concepts. Students must be mature enough to handle the laboratory environment, including equipment, techniques, and safety.

PHYSICS (3164) – 1 SEMESTER – 1/2 CREDIT (GRADE 10)

DESCRIPTION – Physics is the science which investigates, describes, and explains the concepts of matter and energy. In this course students will study forces, scalars and vectors, Newton’s laws of motion, gravitation, momentum and its conservation, the concept of work, and the conservation of energy. As time permits electric fields and circuits will be studied. Students will examine the concepts listed above through developing models, group collaboration, simulations, individual problem-solving, and lecture. Several projects and experimental investigations will occur throughout the semester.

HONORS PHYSICS (3114) – 1 SEMESTER – 1/2 CREDIT (GRADE 10)

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

PREREQUISITE: Students need an A- average in Algebra I and Biology or B- in Honors Biology and Honors Geometry.
HONORS HUMAN PHYSIOLOGY (3095/6) - FULL YEAR - 1 CREDIT (GRADES 11-12)

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

PREREQUISITE TO REQUEST: B- in Biology or C in Honors Biology.

PHYSICS (3101/2) - FULL YEAR - 1 CREDIT (GRADES 11-12)

DESCRIPTION: Physics is designed for the serious science major and is intended to prepare the college bound student. It is recommended for all students who intend to study science, medicine, mathematics, or engineering in college. Physics is the science which mathematically investigates, describes, and explains the concepts of matter and energy. In this course students will study forces and vectors, Newton’s laws of motion, gravitation and momentum, the concepts of work, energy, and simple machines, electricity and electric fields and circuits. As time permits, the nature of magnetism and magnetic fields, electromagnetic wave theory, and the nature of light will be studied. Students will examine the concepts listed above through lectures, discussions, group and individual problem-solving sessions, and experimental investigation. A strong background in Algebra and a working knowledge of trigonometry are essential. Several projects are required during the year. Students must have their own scientific or graphing calculator.

PREREQUISITE: B average in science and math courses (Algebra II). Must be in Algebra II by 11th grade.
# SOCIAL STUDIES

**Required Courses**

SOCIAL STUDIES – 3.0 Credits required in High School

Sequence Chart

<table>
<thead>
<tr>
<th>9th Grade</th>
<th>10th Grade</th>
<th>11th Grade</th>
<th>12th Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>US History I/II</td>
<td>World History I/II</td>
<td>AP US Govt (2 semesters) or US Govt (1 semester) and Economics (1 semester)</td>
<td>Psychology or Sociology (can be taken as elective) AP Psychology can be taken as elective</td>
</tr>
<tr>
<td>Honors US History I/II</td>
<td>AP World History I/II or Honors World History I/II</td>
<td>AP US Govt (2 semesters) or US Govt (1 semester) and Economics (1 semester) AP Psychology can be taken as elective</td>
<td>AP US History AP Psychology or Sociology (can be taken as elective)</td>
</tr>
</tbody>
</table>

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**U.S. HISTORY I: 1900-1945 (4001) 1 SEMESTER – 1/2 CREDIT** *(GRADE 9 REQUIRED)*

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

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**U.S. HISTORY II: 1946-PRESENT (4002) 1 SEMESTER 1/2 CREDIT** *(GRADE 9 REQUIRED)*

**DESCRIPTION:** The purpose of the ninth grade social studies curriculum is to increase students' knowledge of the development of the United States as a democratic nation. The course is organized as a chronological survey of the American past from America Homefront News during World War II to 911. Emphasis will be placed on major events, individuals and ideas comprising our American heritage. Students will increase their knowledge of historical insights and the development of democratic values. They will enhance their skills in processing and evaluating information. Knowledge of our past will help the students understand our present and encourage citizen involvement to make changes for a better future.
DESCRIPTION: The purpose of the 9th grade social studies curriculum is to increase students’ knowledge of the development of the United States as a democratic nation. The course is organized as a chronological survey of the American past from 1900 to the end of World War II. Emphasis will be placed on major events, individuals and ideas comprising our American heritage. Students will increase their knowledge of historical insights and the development of democratic values. They will enhance their skills in processing and evaluating information. Knowledge of our past will help the students understand our present and encourage citizen involvement to make changes for the future. Students will be able to identify and explain the people, places, and events that are connected with United States history. The honors program will have additional in-depth analysis, comprehension, writings, readings, and interpretation of the student’s primary readings, secondary readings, maps, graphs, and political cartoons. Honors 9th Grade American History has the expectation that students will read the textbook along with additional reading. They will be asked to critically think, restructure concepts, and participate in classroom discussion regarding material read. Students will be challenged with, “for every answer, there is a question.”

PREREQUISITE TO REQUEST: A- average in 8th grade History or “B” or better on 8th grade Honors History semester exam.

DESCRIPTION: The purpose of this class is to provide knowledge and understanding of the Eastern and Western worlds through a chronological format. Honors World History covers from 600BCE to modern day, a central theme of this course is the development of a rich global perspective in which students acquire an understanding of the world and its many peoples, cultures, beliefs, traditions and religions that have direct influence on the world today. Students will gather information that has a direct connection between past civilizations and their role in the world today. The honors program will have additional in-depth analysis, comprehension, writings, readings, and interpretation of the student’s primary readings, secondary readings, maps, graphs, and political cartoons. Honors 10th grade World History has the expectation that students will read the textbook along with additional reading. They will be asked to critically think, restructure concepts, and participate in classroom discussion regarding material read. Students will be challenged with, “for every answer, there is a question.”

PREREQUISITE TO REQUEST: A- in US History or B- in Honors U.S. History (or teacher approval).

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

DESCRIPTION: The purpose of the World History class is to provide knowledge and understanding of the eastern and western worlds through a chronological format. This study allows for a connectedness between cause and effect and the rise and fall of history’s great empires. World History II begins where World History I ended with the rise of the European Imperialism and concludes with the study of current global changes. A central theme of the course is development of a rich, global perspective in which students acquire an appreciation of the world and its many peoples and cultures whose traditions, beliefs, and values are similar to, or perhaps different from our own.
ADVANCED PLACEMENT WORLD HISTORY (4037/8) – FULL YEAR - 1 CREDIT

GRADE 10

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

PREREQUISITE: B- average in Honors US History or an A- in US History.

GOVERNMENT (4034) - 1 SEMESTER – 1/2 CREDIT

GRADE 11 REQUIRED

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

ECONOMICS (4104) - 1 SEMESTER –1/2 CREDIT

GRADES 11-12

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

### Elective Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Description</th>
<th>Prerequisite</th>
</tr>
</thead>
<tbody>
<tr>
<td>4091/2</td>
<td><strong>ADVANCED PLACEMENT U.S. HISTORY (FULL YEAR - 1 CREDIT)</strong></td>
<td>B- average in Honors World History and Honors U.S. History or at least an A- in World History and U.S. History.</td>
</tr>
<tr>
<td>4114</td>
<td><strong>PSYCHOLOGY (1 SEMESTER – 1/2 CREDIT)</strong></td>
<td>A- average in social studies courses, B average in Honors Social Studies (or teacher approval).</td>
</tr>
<tr>
<td>4115/6</td>
<td><strong>AP PSYCHOLOGY (FULL YEAR – 1 CREDIT)</strong></td>
<td>A- average in social studies courses, B average in Honors Social Studies (or teacher approval).</td>
</tr>
<tr>
<td>4124</td>
<td><strong>SOCIOLOGY (1 SEMESTER – 1/2 CREDIT)</strong></td>
<td>A- average in social studies courses, B average in Honors Social Studies (or teacher approval).</td>
</tr>
</tbody>
</table>
DESCRIPTION: This course explores the political theory and everyday practice that direct the daily operation of our government and shape our public policies. Students will develop a critical understanding of the strengths and weaknesses of the American political system, as well as their rights and responsibilities as citizens. This course includes the following topics: Constitutional underpinnings of U.S. government, political beliefs and behaviors, political parties, interest groups and mass media, institutions of national government, public policy, and civil rights/liberties.

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

PREREQUISITE TO REQUEST: A- average in all Social Studies classes or B- average in Honors Social Studies (or teacher approval).

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

FOR FURTHER INFORMATION VISIT APCentral.CollegeBoard.com
SPECIAL EDUCATION

U. S. HISTORY A: (9011) 1 SEMESTER 1/2 CREDIT  (GRADE 9)

DESCRIPTION: The purpose of this semester class is to increase students’ knowledge and understanding of events in and affecting the United States from 1900-1945. This class is designed to meet the needs of those students that can benefit from an individual learning environment.

U. S. HISTORY B: (9012) 1 SEMESTER 1/2 CREDIT  (GRADE 9)

DESCRIPTION: The purpose of this semester class is to increase students’ knowledge and understanding of events in and affecting the United States from 1945-Present. This class is designed to meet the needs of those students that can benefit from an individual learning environment.

WORLD HISTORY A: (9015) – ONE SEMESTER – 1/2 CREDIT  (GRADE 10)

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

WORLD HISTORY B: (9016) – 1 SEMESTER – 1/2 CREDIT  (GRADE 10)

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

GOVERNMENT A/B: (9024) - 1 SEMESTER – 1/2 CREDIT  (GRADES 11-12)

DESCRIPTION: The purpose of this semester class is to increase students’ knowledge and understanding of American Government. The formation and basic principles of our government will be studied along with the U.S. Constitution and the rights and responsibilities of citizenship in the United States. This class is designed to meet the needs of those students that can benefit from an individualized learning environment.
**ECONOMICS A/B: (9064) - 1 SEMESTER – 1/2 CREDIT**  
(GRADES 11-12)

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

**ENGLISH 9 (9201/2) - FULL YEAR - 1 CREDIT**  
(GRADE 9)

**DESCRIPTION:** The major focus is the use of oral and written communication. The written communication section of the class will focus on process writing skills to communicate effectively with a variety of audiences. The study of literature will focus on short stories, poetry, fiction, non-fiction, informational reading and novels. The study of grammar will focus on grammar, usage and mechanics. This class is designed to meet the needs of those students that can benefit from a smaller class setting and more individualized learning environment.

**ENGLISH 10 (9211/2) - FULL YEAR - 1 CREDIT**  
(GRADE 10)

**DESCRIPTION:** This course continues the development of oral and written communication. The written communication section of the class will focus on process writing skills to communicate effectively with a variety of audiences. As part of the writing process students will use the library and other resources to develop a knowledge base for a research paper. Students will be taught how to use online databases. Standard usage, functional grammar, and correct spelling are emphasized. The study of literature will include fiction and informational reading. Process writing will continue in the literature portion of the course via literacy analysis papers. This class is designed to meet the needs of those students that can benefit from a smaller class setting and more individualized learning environment.

**ENGLISH 11 (9221/2) - FULL YEAR - 1 CREDIT**  
(GRADE 11)

**DESCRIPTION:** This course focuses on the continued development of oral, written communication, and grammar. The writing process will emphasize how to communicate with a variety of audiences. Students will prepare for the State’s standardized testing through various practices. Standard usage, functional grammar and correct spelling are emphasized. The study of literature will include novels, short stories, and drama as well as informational reading. Literature will focus upon American authors in a variety of genre.

**ENGLISH 12 (9224) – ONE SEMESTER – 1/2 CREDIT**  
(GRADE 12)

This course will cover written communications in response to literature, it combines the writing of essays based upon related readings with an emphasis on organization and development of ideas. Students will develop competence in mechanics, usage, grammar and skills in organizing, proofreading and revising essays. Literature will cover English playwrights and non-fiction material.

**COMMUNICATION ARTS (9244) – ONE SEMESTER – 1/2 CREDIT**  
(GRADE 12)

The class is designed to build skills needed to communicate at home, school and in the work place. Students will work individually and in groups to demonstrate and evaluate verbal, non-verbal and written communication skills.
**PRE-ALGEBRA A/B (9141/2) - FULL YEAR - 1 CREDIT (GRADE 9)**

DESCRIPTION: This is a first year algebra course designed for the student that has struggled in mathematics or lacks strong study or organizational skills. The course focuses on acquiring success in the study of algebraic skills and concepts. The goal is to have students develop sufficient computational, procedural, and problem solving skills to provide a solid foundation for further study in mathematics. This course is the first in a series of three courses that develop organization and study skills as they progress through the content of a skill driven algebra course. Students will work in an individualized program which may include solving for “x”, reading graphs, estimation, and measures of central tendency, etc. Additionally, certain geometry connections such as the formulas related to distance and midpoint are introduced to prepare students for 10th grade Algebra I. Accommodations will be made to meet each student’s needs.

**ALGEBRA I A/B (9125/6) – FULL YEAR - 1 CREDIT (GRADE 10)**

DESCRIPTION: This is a first year algebra course designed for the student that has struggled in mathematics or lacks strong study or organizational skills. The course focuses on acquiring success in the study of algebraic skills and concepts. The goal is to have students develop sufficient computational, procedural, and problem solving skills to provide a solid foundation for further study in mathematics. This course is the first in a series of three courses that develop organization and study skills as they progress through the content of a skill driven algebra course. Students will work in an individualized program which may include solving for “x”, reading graphs, estimation, and measures of central tendency, etc. Additionally, certain geometry connections such as the formulas related to distance, midpoint and the Pythagorean Theorem are introduced to prepare students for 11th grade AB Geometry. Accommodations will be made to meet each student’s needs.

**GEOMETRY A/B (9151/2) – FULL YEAR – 1 CREDIT (GRADE 11)**

DESCRIPTION: This is the second of a three-course sequence which continues working with students to obtain success in mathematics and strengthen their study skills. This course provides introduction and focus on geometric skills and concepts. Emphasis is on the fundamental concepts of geometry such as parallel and perpendicular lines, congruent triangles and similarities, relationships within triangles, area, similarity, ratios, proportionalities, surface area, volume, circles. Accommodations for each student will take place as needed.

**ALGEBRA II A/B (9131/2) – FULL YEAR - 1 CREDIT (GRADE 12)**

DESCRIPTION: This is the last of a three-course sequence, which allows the student to learn mathematical concepts in practical, current situations. This is a class intended for the 11th or 12th grade student who has successfully completed two years of mathematics. The course will discuss and explore the five content stands in the Michigan High School Test (MEAP) – (1) Patterns, Relationships and Functions; (2) Geometry and Measurements; (3) Data Analysis and Measures of Central Tendency; (4) Numeration and Number Sense and; (5) Numerical and Algebraic Operations and Analytical Thinking. Accommodations will be made to meet each student’s needs.
BIOLOGY A/B (9091/2) – FULL YEAR – 1 CREDIT (GRADE 9)

DESCRIPTION: A one-year course in which the following core curriculum topics are addressed: inquiry, reflection and social implications; organization and development of living systems; inter-dependence of living systems and the environment; genetics and; evolution and biodiversity. Laboratory activities related to each of the above topics of study are included.

PHYSICAL SCIENCE A/B (9085/6) - FULL YEAR - 1 CREDIT (GRADE 10)

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

Recommended: Scientific calculator or Graphing Calculator (TI83/84).

EARTH AND SPACE SCIENCE (9085/6) - FULL YEAR - 1 CREDIT (GRADE 11)

DESCRIPTION – Earth & Space Science is a course designed to provide students with an introduction to earth & space concepts. This includes, but is not limited to, the history of the Earth, Earth’s systems, weather & climate, human sustainability, space systems, as well as additional key topics. Students will investigate essential earth & space concepts, will acquire a better understanding of the role the earth plays in each individual’s life, and will be encouraged to develop an inquiry-based mind-set.

Laboratory experiences will play a role in developing each student’s understanding of key concepts. Students must be mature enough to handle the laboratory environment, including equipment, techniques, and safety.
LCC/Transition – Life Skills - (9431/2 - Full Year – 1 Course Completion)

DESCRIPTION: This course is basic life skills for adult independent living. Students in this course will learn small motor coordination, applications, resumes, transition services and self-determination.

PREREQUISITE: Entrance into program by IEP and MARSE requirements.

LCC/Transition – English - (9401/2 Full Year – 1 Course Completion)

DESCRIPTION: This course is basic English and reading skills towards post-secondary goals. Students in this course will learn reading and writing strategies at the student’s individual level.

PREREQUISITE: Entrance into program by IEP and MARSE requirements.

LCC/Transition – Math - (9411/2 Full Year – 1 Course Completion)

DESCRIPTION: This course is basic math skills for adult independent living. Students in this course will learn time, money, calendar, banking, budgeting and basic math skills at the student’s individual level.

PREREQUISITE: Entrance into program by IEP and MARSE requirements.

LCC/Transition – Individual Work Study - (9434 Full Year – 1 Course Completion)

DESCRIPTION: This course is basic enterprising skills for employment goals. Students in this course will learn the basics of self-enterprise, work individually and in small groups on manufacturing and production.

PREREQUISITE: Entrance into program by IEP and MARSE requirements.

LCC/Transition – Building Maintenance - (9441/2 Full Year – 1 Course Completion)

DESCRIPTION: This course is basic soft skills for employment goals. Students in this course will learn how to gain and maintain employment by working at various jobs.

PREREQUISITE: Entrance into program by IEP and MARSE requirements.
Certificate of Completion courses are available for students who are not on the traditional Diploma path. A “CC” will be included along with the course name and course number on all completion courses.

- English 10 – (9212CC)
- Study Skills – (9162CC)
- Introduction to Art – (7504CC)
- Algebra I – (9125CC/9126CC)
- Economics – (9064CC)
- Team Sports – (8548CC)
- Spanish I – (1541CC/1542CC)
- English 11 – (9222CC)
- Hospitality II – (5271CC/5272CC)
- Geometry – (9151CC/9152CC)
- Advanced Art – (7534CC)
- Applied Technology – (1131CC/1132CC)
- Algebra II – (9131CC/9132CC)
- Communication Arts – (9224CC)
- French I – (1501CC/1502CC)
- Introduction to Auto – Level 4 – (6394CC)
- Government – (9024CC)
- Graphics Art I – (6171CC/6172CC)
- Concert Choir – (7701CC/7702CC)