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The P-CCS Mission & Vision

MISSION
The Plymouth-Canton Community School District, in partnership with the community, is dedicated to providing educational opportunities for each student to achieve personal excellence and to become a productive contributing citizen.

VISION
As a public educational institution, the Plymouth-Canton Community School District will lead our state in educating students to thrive in a complex global economy.

Schedule Adjustments
Students and parents should access the Course Catalog online. Students will meet with counselors in February to make course selections. Students will have one week to consult with counselors, teachers, and their parents before finalizing selections. By mid-March, all final selections for the next school year must be completed.

After the start of the new semester, course adjustments will be made only for the following reasons:

- The student has an incomplete schedule.
- The student has a failure from the previous semester in a prerequisite course.
- The student completed a course in summer school that is on his/her current schedule.
- The student is verified as misplaced.

Students who do not qualify for schedule adjustments under this criteria must follow their schedules for the entire semester/year. Students who experience academic difficulty in a course they have selected will not be allowed to withdraw or change the class without parent, teacher, counselor and administrator involvement.

- Schedule changes must be made before the final registration date since the master class schedule for next year’s program is based upon the data collected from students.
- Course requests will be viewable in MISTAR StudentConnection and ParentConnection. This is your confirmation of courses requested to be scheduled, and not an assurance that the confirmed requests will be scheduled, as irreconcilable conflicts and course limits do occur.
- Some of the courses will be offered in only one of the school buildings. Students may have to move between buildings to attend their assigned courses.
- Due to low enrollment, some courses described in this publication may not be offered.
- Parents are encouraged to communicate freely with counselors and members of the school staff throughout the course selection period.
PROGRAM PLANNING

GRADUATION REQUIREMENTS

The Board of Education of the Plymouth-Canton Community Schools has established the following as the minimum requirements for graduation from Canton, Plymouth and Salem High Schools. They are:

- All high school students, before the completion of their junior year, must attempt all parts of the Michigan Merit Exam (MME) in order to be eligible for graduation, unless indicated otherwise in an Individualized Education Program (IEP). No transfer student will be denied graduation for not taking the required MME tests, providing that the student was not enrolled in the Plymouth-Canton Community School District when the test was offered. Any deviation from this requirement must be approved by the building associate principal and may include, but not be limited to a medically documented absence or other special circumstance that would prevent the student from attending school during the testing period.

- Completion of eight semesters of full-time enrollment (including all required courses of study in grades 9-12 to participate in commencement). Special Note: To be considered a senior and eligible for graduation, a student must have acquired fourteen credits by the start of the seventh semester.

- Twenty-two credits earned in grades 9-12. Credits at the beginning of each school year are classified as the following grade:
  - 10th grade = 4.0 credits
  - 11th grade = 9.0 credits
  - 12th grade = 14.0 credits

- No more than one-half credit from the following areas is permitted in one semester. Exceptions will be made only when part of a comprehensive individualized instruction plan approved by the counselor and administrator. A maximum of 2.0 total elective credits may be applied from the following:
  - Video Lab Tech — maximum of 1.0 credit
  - Independent Study—maximum of 1.0 credit
    1. Only one Independent Study is allowed per semester
    2. Seniors are not eligible for Independent Study Credit toward graduation during the second semester of their senior year
    3. Students are limited to two Independent Studies while enrolled in high school

Michigan Merit Curriculum —

In April 2006, the governor signed into law one of the most comprehensive sets of high school graduation requirements in the nation called the Michigan Merit Curriculum to go into effect with the Class of 2011. Using the State’s curriculum as our guide, the District formulated the Plymouth-Canton Community Schools graduation requirements for the Class of 2011 and beyond.
President’s Council Core Courses
The President’s Council supports the Michigan Department of Education’s Michigan Merit Curriculum, which would bring the state’s requirements closer to those recommended by Michigan’s 15 public universities. But for students who wish to be fully prepared for a university education, the President’s Council encourages them to take the full set of core courses below.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Math</strong></td>
<td>4 credits</td>
</tr>
<tr>
<td>Algebra 1</td>
<td>1</td>
</tr>
<tr>
<td>Geometry</td>
<td>1</td>
</tr>
<tr>
<td>Algebra II</td>
<td>1</td>
</tr>
<tr>
<td>Pre-Calculus</td>
<td>1</td>
</tr>
<tr>
<td><strong>Science</strong></td>
<td>4 credits</td>
</tr>
<tr>
<td>Biology</td>
<td>1</td>
</tr>
<tr>
<td>Physics</td>
<td>1</td>
</tr>
<tr>
<td>Chemistry</td>
<td>1</td>
</tr>
<tr>
<td>Other Science</td>
<td>1</td>
</tr>
<tr>
<td>English - 4 credits</td>
<td></td>
</tr>
<tr>
<td>4 Years</td>
<td>4</td>
</tr>
<tr>
<td><strong>Social Studies</strong></td>
<td>4 credits</td>
</tr>
<tr>
<td>World History</td>
<td>1</td>
</tr>
<tr>
<td>U.S. History</td>
<td>1</td>
</tr>
<tr>
<td>Economics</td>
<td>.5</td>
</tr>
<tr>
<td>Civics</td>
<td>.5</td>
</tr>
<tr>
<td>Other Social Studies</td>
<td>1</td>
</tr>
<tr>
<td><strong>World Language</strong></td>
<td>3 credits</td>
</tr>
<tr>
<td>3 Years</td>
<td>3</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>19</td>
</tr>
</tbody>
</table>
# P-CEP GRADUATION REQUIREMENTS

In order for a student to qualify for a diploma in this District, the student must satisfactorily complete the following courses and earn at least twenty-two (22) credits in grades nine through twelve including requirements listed below. The Online Experience is met through the P-CEP course of study towards graduation requirements, which is aligned to the Michigan Merit Curriculum.

**Students may not use the same course to satisfy more than one requirement/credit.** For example, Creative Writing may **NOT** be used for English and Applied Art credit.

<table>
<thead>
<tr>
<th>Credits</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>4.0</strong></td>
<td><strong>ENGLISH LANGUAGE ARTS</strong></td>
</tr>
<tr>
<td>9th Grade</td>
<td>English 9 --World Literature</td>
</tr>
<tr>
<td>10th Grade</td>
<td>American Literature/Writing</td>
</tr>
<tr>
<td>11th Grade</td>
<td>One semester writing course and one semester literature course, or one year-long course</td>
</tr>
<tr>
<td>12th Grade</td>
<td>One semester writing course and one semester literature course, or one year-long course</td>
</tr>
</tbody>
</table>

*Students must satisfy a 0.5 communications credit requirement; it may be taken as part of the 4.0 credit English credits or as an elective.*

<table>
<thead>
<tr>
<th>Credits</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>4.0</strong></td>
<td><strong>MATHEMATICS</strong></td>
</tr>
<tr>
<td>Algebra 1 or Algebra 1 Advanced, Geometry or Honors Geometry, Algebra 2, Algebra 2 with Trig, or Honors Algebra 2, Math in Grade 12</td>
<td></td>
</tr>
<tr>
<td>Collision Repair Electronics I, II Engineering CAD 1, 2, 3 Finance and Investment Honors Financial and Managerial Accounting Hospitality and Culinary Arts: Exploration Hospitality and Culinary Arts: Restaurant Operation Intro to Auto Paint Intro to Computer Programming Logic &amp; Reasoning Marketing Marketing Management Microsoft Excel Physics / AP Physics Real Estate Essentials</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Credits</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>3.0</strong></td>
<td><strong>SCIENCE</strong></td>
</tr>
<tr>
<td>9th Grade</td>
<td>Geophysical Science (Exception: Geophysical Science test-out for placement in higher level)</td>
</tr>
<tr>
<td>10th Grade</td>
<td>Biology or Honors Biology</td>
</tr>
<tr>
<td>11th or 12th Grade</td>
<td>Must include Chemistry, ChemCom, Physics, or AP Physics</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Credits</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>3.0</strong></td>
<td><strong>SOCIAL STUDIES</strong></td>
</tr>
<tr>
<td>9th Grade</td>
<td>World History or AP World History</td>
</tr>
<tr>
<td>10th Grade</td>
<td>US History or AP US History</td>
</tr>
<tr>
<td>11th Grade</td>
<td>PES: Civics &amp; PES: Econ or AP Macro &amp; AP Micro &amp; AP Government, AP Government</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Credits</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>0.5</strong></td>
<td><strong>HEALTH</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Credits</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>0.5</strong></td>
<td><strong>PHYSICAL EDUCATION</strong></td>
</tr>
<tr>
<td></td>
<td>Personal Fitness</td>
</tr>
<tr>
<td>2.0</td>
<td><strong>WORLD LANGUAGE</strong> (second World Language credit can be earned through an approved CTE program. See page 66)</td>
</tr>
</tbody>
</table>
| 1.0 | **VISUAL, PERFORMING, and APPLIED ARTS**  
*Every course listed in the Visual Art Department (page 54) and Music Department (page 42) [except Music Theory]*  
Advanced Marketing  
Advanced Video Production  
Advanced Web Design  
Architectural and Computer Aided Design  
Comic Books and Graphic Novels  
Contemporary Fashion & Design Course  
Creative Foods and Nutrition  
Creative Writing  
Digital Media Arts  
Drama and Speech  

|  |  | Drama II, III  
|  |  | Engineering - CAD I, II, III  
|  |  | Fundamentals of Radio Broadcasting  
|  |  | Graphics and Print Technology  
|  |  | Honors Humanities  
|  |  | Hospitality and Culinary Arts (both courses)  
|  |  | Interior Design  
|  |  | International Foods & Nutrition  
|  |  | Intro to Auto Paint  
|  |  | Intro to Video Production  
|  |  | Marketing  
|  |  | Marketing Management  
|  |  | Photoshop  
|  |  | Professional Publications  
|  |  | Textiles and Design  
|  |  | Web Design & Internet |
| 4.0+ | **ELECTIVES** |
| 22.0 | Minimum Credits earned for Graduation |
ADVANCED PLACEMENT

Advanced Placement (AP) is a program of college level courses and examinations for high school students which most colleges and universities recognize for the purpose of granting credit or advanced course placement. Twenty AP courses are offered at P-CEP.

AP courses provide students with academic experiences like those encountered at the college level. Students may elect to take any AP exam without taking an AP course.

| AP Biology | AP Computer Science Java | AP Art |
| AP Chemistry | AP Government | AP English Literature & Composition |
| AP Environmental Science | AP U.S. History | AP Environmental Language & Composition |
| AP Physics | AP Microeconomics | AP French |
| AP Calculus AB | AP Macroeconomics | AP German |
| AP Calculus BC | AP World History | AP Spanish |
| AP Probability & Statistics | AP Psychology | |

*AP courses are weighted (1 Honor Point) when grade earned is “C” or above.

HONORS COURSES

| Honors Geometry | Honors Advanced Composition B | AP Art |
| Honors Algebra II | Honors Composition Seminar | AP English Literature & Composition |
| Honors PreCalculus with Trigonometry | Honors Debate | AP Environmental Language & Composition |
| Honors Biology | Honors Humanities | AP French |
| Honors Physics | Honors Modern Literature & The Arts | AP German |
| Honors Zoology | Honors Shakespeare Seminar | AP Spanish |
| Honors Finance and Managerial | Honors Digital Art | |
| Accounting | Honors Photography | |

INTERNATIONAL BACCALAUREATE COURSES

Standard Level (SL) courses are similar in volume of material covered with relationship to correlated AP Exams. Higher Level (HL) courses are beyond the volume and scope of material covered with relationship to correlated AP Exams.

| Language & Literature HL* | Chemistry HL* | Music SL |
| Spanish SL | Environmental Systems SL | IB Visual Arts HL* |
| French SL | Physics HL* | IB Visual Arts SL |
| Geography HL* | Mathematical Studies SL | Theory of Knowledge |
| Geography SL | Mathematics SL (Yr 2 *) | Psychology SL |
| World Religions SL | Mathematics HL* | Psychology HL* |
| Biology HL* | Music HL* | |

*IB HL courses are weighted (1 Honor Point) when a grade earned is “C” or above.

- There are fees associated with taking the optional International Baccalaureate examinations (needed to earn the IB Diploma). Earning the IB Diploma is not a P-CCS graduation requirement.
- There are fees associated with taking the optional Advanced Placement Exams offered through the College Board.
- Students who participate in the federal free/reduced lunch program may be eligible for discounted IB or AP exam fees.
- Students within the International Academy must take Geophysical Science as an elective during their freshman year or have passed the test-out before the beginning of their sophomore year. Failure to do so will result in an automatic scheduling of the Geophysical Science Course for their sophomore year.
PERSONAL CURRICULUM

The Plymouth-Canton Community Schools District Board of Education recognizes the importance of maintaining a rigorous, relevant curriculum for all students. The awarding of a diploma should be a meaningful achievement which signifies that a student has demonstrated proficiency in the Michigan Merit Curriculum (MMC) as established by the Michigan Department of Education.

The board also recognizes that the State of Michigan allows exceptions to the MMC requirements through a process known as a Personal Curriculum (PC)

The PC is a process to modify specific credit requirements and/or content expectations based on the individual learning needs of a student. It is designed to serve students who want to accelerate or go beyond the MMC requirements and students who need to individualize learning requirements to meet the MMC requirements.

These procedures were developed to help students and parents understand when it may be appropriate to use a PC option to modify the MMC requirements. Students and/or parents may propose a PC in the following circumstances:

- To go beyond the academic credit requirements by adding more math, science, English language arts, or world language credits; or completing a department-approved formal career and technical education program
- To modify the State Content Standards for Mathematics
- To modify, when necessary, the credit requirements of a student with an Individualized Education Plan (IEP)
- To modify credit requirements for a student who transfers from out of state or from a nonpublic school and is unable to meet the MMC requirements

PC modifications must align with the Michigan Academic Standards as practicable and must not create barriers that limit a student’s opportunity to be engaged in a rigorous curriculum. The legislative intent of PC is to individualize the rigor and relevance of the educational experience. In this context, “practicable” is an inclusive term meaning as much of the subject area standards as possible during high school instruction. Students with an IEP operate under the same context.

PC development and identification of practicable content begins with:

- Identification of the student’s career pathway
- Requirements for achieving career and postsecondary goals
- Analysis of the student’s current and past levels of performance, including student strengths, which will be enhanced through the PC (ie: transcript and formal and informal assessment data)
- Identification of the course and other educational experiences the student needs to progress along the career pathway and achieve postsecondary goals [as identified in the Educational Development Plan (EDP)]

The PC modifications should:

- Facilitate progress along the student’s career pathway and the achievement of postsecondary goals
- Enhance the relevance of the student’s educational experience
- Provide access to the MMC content knowledge, processes, and skills
- Provide full access to statewide assessments
- Provide a gateway to employment and productive adult living
- Maintain the integrity of the diploma

Modifications not allowed:

There are no modifications to credit requirements allowed in the following areas (exceptions may apply for students with an IEP or transfer students):
While every request to modify a student’s graduation requirements should be considered, the administration may **deny** a PC request if:

- The request does not comply with state statute
- Other options for meeting the student’s educational needs have not been documented
- It is not in the best interest of the student
- The members of the PC development team cannot reach agreement

### Parameters for Personal Curriculum (PC) Modifications

State law requires that a PC incorporate as much of the subject area content expectations as is practicable for the student. The PC must be aligned to the student’s EDP. The PC must also include measurable goals regarding what the student must achieve while in high school. Revisions are made in the same manner as the original PC.

The following parameters guide the development of a PC Plan related to the MMC:

<table>
<thead>
<tr>
<th>Subject Area Credit Requirements</th>
<th>Personal Curriculum (PC) Modifications</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>4 English Language Arts (ELA) Credits</strong></td>
<td></td>
</tr>
<tr>
<td>- 1 credit in 9th, 10th, 11th, and 12th grade</td>
<td></td>
</tr>
<tr>
<td>- Proficiency in State Content Standards for ELA (4 credits)</td>
<td></td>
</tr>
<tr>
<td>✔ No modification except for students with an Individualized Education Program (IEP) and for transfer students who have completed 2 years of high school</td>
<td></td>
</tr>
</tbody>
</table>

| **4 Mathematics Credits**  |
| - 3 credits aligned with the required state content expectations (i.e. Geometry, Algebra I, and Algebra II)  |
| - 1 math or math-related credit (not required to be aligned with state content expectations)  |
| - 1 math or math-related course required in the final year which could include any of the 4 credits described above or may be an additional district credit  |
| - Note: Students may earn 2 math credits for Algebra II when the credit is earned over 2 years, or 1.5 credits over 1.5 years, without requesting a personal curriculum  |
| ✔ 1 credit of Algebra II may be modified to ½ credit Algebra II, statistics, or functions and data analysis  |
| ✔ Additional modifications allowed for students with an IEP and transfer students who have completed 2 years of high school  |
| ✔ Students must have a math experience one of their two final years in high school  |

| **3 Science Credits**  |
| - 1 Biology credit  |
| - 1 Chemistry or Physics credit  |
| - 1 additional science credit  |
| - All credits aligned to state content expectations  |
| - Proficiency in State Content Standards for Science (3 credits); **OR**  |
| - Proficiency in some State Content Standards for Science (2 credits) and completion of a department-approved formal career and technical education program (1 credit)  |
| ✔ No modification except for students with an IEP and transfer students who have completed 2 years of high school  |
### 3 Social Studies Credits
- ½ Civics credit
- ½ Economics credit
- 1 U.S. History and Geography credit
- 1 World History and Geography credit
- All credits aligned to state content expectations

✔ 1 social studies credit (other than Civics) can be exchanged for an additional English language arts, math, science, or world languages credit, or department-approved formal career and technical education program.

✔ Additional modifications allowed for students with an IEP and transfer students who have completed 2 years of high school.

### 1 Physical Education and Health Credit
- Proficiency in State Content Standards for Physical Education and Health (1 credit); Or
- Proficiency with State Content Standards for Health (1/2 credit) and district-approved extra-curricular activities involving physical activities (1/2 credit)

✔ Michigan statute requires all students to take Physical Education (380.1502) and receive instruction on HIV/AIDS (380.1169), but the law also allows for a parent/guardian to request a PC

✔ Credit can be exchanged for an additional English language arts, math, science, or world languages credit or department-approved formal career and technical education program.

✔ Additional modifications allowed for students with an IEP and transfer students who have completed 2 years of high school.

### 1 Visual, Performing, and Applied Arts Credit
- Proficiency in State Content Standards for Visual, Performing and Applied Arts

✔ Credit can be exchanged for an additional English language arts, math, science, or world languages credit or department-approved formal career and technical education program.

✔ Additional modifications allowed for students with an IEP and transfer students who have completed 2 years of high school.

### 2 World Languages Credits ( Begins with Class of 2016 )
- Credits earned in grades 9-12 or an equivalent learning experience in grades K-12
- Formal coursework or an equivalent learning experience in grades K-12 (1 credit) and completion of a department-approved formal career and technical education program or an additional visual, performing and applied arts credit (1 credit)

✔ No modification except for students with an IEP and transfer students who have completed 2 years of high school.

### Online Learning Experience
- Course, Learning or Integrated Learning Experience

✔ No modification except for students with an IEP and transfer students who have completed 2 years of high school.

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**Personal curriculum forms may be accessed in the Counseling section of the Park website or in the Counseling Offices in each building.**

**Additional Resources:**
Michigan Department of Education - Personal Curriculum Parent and Educator Guide
Michigan Department of Education - Personal Curriculum Supplement to the Parent and Educator Guide
Michigan Department of Education - Personal Curriculum FAQ
Academic Support Services

Math Lab: Students wishing additional help in mathematics may go to a Math Lab at Canton, Plymouth, or Salem during lunch.

Writing Lab: The Writing Center is open during all lunches. Students who need assistance with writing assignments should make an appointment online.

Individual Tutoring: Contact your counselor for tutor information. NHS students offer tutoring at libraries.

Reading/Writing Workshop: Students are referred by English staff or counselors.

Math Support Classes: Students are referred by Math staff or counselors.

Growth Programs: Students are referred by staff or counselors.

Academic Eligibility for the College Bound Student-Athlete

The National Collegiate Athletic Association (NCAA) adopted new and more demanding academic standards for prospective college athletes. The standards define: the number of core courses (in English, Mathematics, Science, Social Studies) that must be completed in grades 9-12 and the grade-point average and SAT/ACT minimum scores that must be achieved to ensure initial athletic eligibility. Visit www.eligibilitycenter.org for details.

Students planning to participate in athletics at the collegiate level should become familiar with these standards. The NCAA Guide with standards is available at www.eligibilitycenter.org. Also, see the P-CEP Student-Athlete Parent/Guardian Handbook for more details.

The Parent/Student is responsible for securing an official transcript from previous high school(s) and for submitting it to the NCAA Eligibility Center.

Athletic Eligibility for the High School Student-Athlete

Activities and athletics are important to teaching college and career-ready skills beyond what is learned in the traditional academic classroom. For complete eligibility requirements, please see “Athlete Eligibility” on the athletics website: gopccs.net

Diploma Guidelines

A minimum of one semester is required for a transfer student to be issued a diploma from P-CEP. An effort will be made to encourage awarding the diploma by the sending school. In this case, the student may still participate in the P-CEP graduation ceremony. If it is not possible for the sending school to award the diploma, a P-CCS diploma will be issued given the following criteria are met: 1) the P-CCS Credit Review guidelines are followed, and 2) all P-CEP graduation requirements have been met. Unless the requirements for graduation can be completed by summer school of that year, the diploma will be issued to reflect the current school year, rather than the date of the graduation of the student’s class.

Dual Enrollment

In addition to the course offerings across departments at P-CEP, there are other curriculum enhancement opportunities available to P-CEP students. Dual enrollment at a community college or university is possible while a student is in high school. To be eligible for dual enrollment, the student must:

1. Obtain the Agreement for Participation from a counselor or the P-CEP website under Guidance and Counseling
2. Understand that the parent/guardian is responsible for fees not covered by the prorated portion paid by P-CCS
3. Be enrolled in at least one high school class and in at least grade 11, with five or fewer credits to graduate
4. Qualify for state endorsement with a level 1 or 2 in the subject areas of the Michigan Merit Exam (High School Proficiency Test–reading, mathematics, writing, and science)
5. Select a college level course or its equivalent that is not offered at P-CEP (the course must be academic or vocational/technical opposed to an “activity” course)
6. Enroll during the school district’s regular academic year
7. See counselor for information and credit check
8. Obtain the administrator’s signature on college/university paperwork
9. Register with the college/university
10. Provide own transportation to college/university
If a student is Dual Enrolled in one college/university class, then he/she may enroll in only five high school classes. The funding for the sixth class is received by the college/university. Dual Enrolled students may be at P-CEP for their scheduled classes and extracurricular activities only.

If applying for high school credit (3 hour post secondary course equals .5 high school credit), the student must provide an official transcript to the Records Office.

The PLAN or PSAT tests can be used to determine eligibility for Dual Enrollment for 11th graders prior to the MME.

**Electives**
In addition to required courses, students will have an opportunity to choose electives from a varied curriculum. Students should consult with their parents, teachers and counselors to be sure that their choices satisfy both the graduation requirements and their education and career goals. Enrollment in electives is limited by space & scheduling constraints. Students will be placed in elective classes by grade level. In some cases, second and third alternates will be used. Although all courses presented in this Program of Studies are offered, sufficient enrollment in a course is necessary for the course to be scheduled.

**High School Students New to the District**
See Student Registration 1, 2, 3 Information on the district website www.pccsk12.com for registration process details. New students will be assessed in math and reading for appropriate course placement.

Information on the Sibling Rule and High School Assignment process is also available on the Student Registration Information page on the district Web site at www.pccsk12.com.

**Counseling and Guidance Services**
The P-CEP Counseling and Guidance Program strives to meet the unique academic and social/emotional needs of our students.

Each high school has a counseling office. Students are encouraged to see their counselors briefly between classes, during lunch hours, or arrange for a scheduled visit through the guidance secretary.

The Counseling Department provides many services. Counselors may assist with the making course selections and planning during high school, as well as planning for college and careers.

**P-CEP COUNSELING SERVICES**
● Personal Counseling
● Academic Counseling
● Post High School Planning
● College & Career Guidance
● Testing & Evaluation Consultation
● Registration & Scheduling
● Scholarships & Honors Night Program
● Referrals – Counseling, testing, tutoring
● College/Vocational School Admissions
● Standardized Testing (PSAT, SAT, PLAN)

**Michigan Merit Exam (MME)**
Juniors take the MME each Spring. Subject areas tested include: Math, Science, Reading, Writing, and Social Studies. The SAT is also administered to all juniors as part of the MME. Completing the MME and SAT is a District graduation requirement.

**National Honor Society**
The National Honor Society is the leader among organizations and societies that promote and recognize students who demonstrate outstanding accomplishments in the areas of scholarship, character, leadership and service. Membership will be determined by the Park faculty as active membership is considered an honor; one which is bestowed on individual students by the faculty of their high school. All juniors and seniors who have a career GPA of
3.5 or above are welcome to apply. The National Honor Society maintains the highest of standards in terms of a non-discrimination selection process. A student’s gender, race, religion, national origin, ancestry, disability or any other characteristic unrelated to the fundamental criteria of scholarship, character, leadership or service will not prevent a student from obtaining or maintaining membership.

Smaller Learning Communities
Smaller Learning Communities are personalized, interdisciplinary approach to learning. Any 9th grade student can select to be a part of a Smaller Learning Community (SLC) during the course section process. The goal of our 9th grade Smaller Learning Communities (SLCs) is to assist students in making a successful transition from middle school to high school and to be able to offer rich learning experiences that connect and are relevant. Teams of two teachers (World History and World Literature) support students academically and foster connectedness with peers in smaller environments within students’ home buildings.

- The student’s SLC team (World Literature and World History) is assigned approximately 60 students in a two-hour block of time.
- Teachers may plan integrated lessons and projects, confer regularly regarding student progress, and take part in assemblies and field trips.
- Projects based learning and cross-curricular instruction between World History and World Literature is a primary focus.

Special Education — Services for Students with an IEP
P-CEP offers a full range of services and programs for students with special needs. The overall purpose of special education is to support students in their efforts to make progress in the curriculum and improve their academic performance. The challenges faced by students with learning, health, or cognitive disabilities range from difficulties in decoding to difficulties in breathing. It is a function of the Special Education Department to provide tools, strategies and programs to meet the individual needs of each child in order for that child to have access to the curriculum and transition into successful adult employment and/or post-high school education. Students are held to the same standards for academic growth, as defined by No Child Left behind (NCLB) and the Individual Disabilities Educational Act Improved (IDEAI), as are all children with or without special needs. This continuous improvement presents many challenges to students and their families, as well as to their teachers, but we have seen consistently that students meet this challenge, by embracing hard work, and using the tools and strategies that address their needs.

Summer School
Summer School usually begins a week after the regular school year ends and is five weeks long. A variety of courses are offered for credit recovery or advancement during the summer. Registration forms are available at all Plymouth-Canton middle and high school General Offices each Spring. Placement in classes will be on a first requested basis. SUFFICIENT ENROLLMENT IS REQUIRED TO OFFER ALL CLASSES. WALK-IN REGISTRATION will be held in mid June. The student should seek the advice of his/her counselor prior to registering for summer school to insure credits are applied. Summer School courses taken for grade improvement must be exactly the same course as the one in which the student hopes to improve the grade. Additional information can be found on the P-CEP Web site http://www.pccsk12.com/pcep.

Testing Out / Earning Credit
Under the Michigan Merit Curriculum Law, students may test out and receive credit for any course. Students who attain a score of 80% or higher on a course assessment identified by the district will receive credit for the course. Assessments measure a student’s understanding of the subject area content expectations. Successfully testing out of a course will be reflected on a student’s transcript as a “G” grade. The grade is not calculated into the student’s GPA. Please note that the NCAA does not accept test out credit as credit for future college-bound student athletes. Additional information can be found on the P-CEP Web site http://www.pccsk12.com/pcep.

Transfer of Credits
Canton, Plymouth and Salem High Schools are accredited by the North Central Association of Colleges and Schools. The high school credits and grades of students new to the district will be accepted from secondary schools, which have been approved by a recognized accrediting agency. Transfer credits presented from any public or private school will be reviewed using the P-CCS Credit Review Guidelines.
Transfer Out of District
Please contact your student’s administrator for information about the withdrawal process.

Virtual / Online Learning
Student access to anytime and any place learning options has expanded under a new law in Michigan. Section 21f of Public Act 60 of 2013 allows students in grades 6 through 12 to take up to two courses online per academic term (with parental consent).

Online learning holds great promise as an instructional approach to expand and customize learning opportunities for students. However, it is substantially different from face-to-face instruction and usually works best when thoughtful planning supports individual enrollment decisions. Please talk with your student to examine if online learning is a good fit for her or him.

To help you prepare for making the decision about whether your student has the characteristics to be successful learning online, we recommend you review the Parent Guide to Online Learning at http://www.mivu.org. The Guide examines how online learning supports next generation learning models, poses practical planning questions, provides a preparation checklist, offers advice for parents and includes an online learner readiness rubric. This guide will help you prepare for a conversation with your student.

Students may select online courses from the statewide catalog of online course titles available at https://micourses.org/. We are excited about this opportunity, but equally cautious given the amount of misperceptions associated with online learning.

If you have further questions related to online courses, please contact your student’s counselor. He/she will be able to explain the process.

Work Study
CO-OP students with junior or senior status participating in the Cooperative Occupational Training Program earn while they learn. Related classes in the four program areas (Business, Health Occupations, Life Management Education, and Trade & Industry Occupations) empower students with up-to-date skills and knowledge, which are directly applied on the job. A partnership between business leaders and educational experts is formed to provide the best learning experience for the student. Teamwork assures on the job success and the best utilization of essential skills.
Academies at the Park

Academies @ The Park represent an innovative response to the national and global demand for highly skilled, highly creative and highly competitive graduates who are capable of succeeding in a rapidly changing, global marketplace. Each with its own unique theme and mission, and each with a well-defined, unified learning experience, Academies @ The Park offer three distinct options. The successful academy student is one who demonstrates a strong interest in one of the academy themes, is willing to commit to a unique course of study for four years, maintains an excellent record of attendance and conduct, and is able to work both independently and collaboratively.

International Academy @ The Park

Promoting personal development and a passion for learning, the International Academy @ The Park (IA@P) provides students with the opportunity to approach their high school studies from a global perspective. Cultural appreciation, theory of knowledge, global citizenship, and high intensity are the hallmarks of this academy.

Highlights of the IA@P include a strong focus on acquisition of world languages, emphasis on honors and advanced studies, interdisciplinary courses, field experience, and a partnership with higher education institutions which will allow students to earn college credit.

Students who enroll in this academy have the opportunity to earn an International Baccalaureate (IB) Diploma. Plymouth High School is an IB World School for the Diploma Programme. International Baccalaureate (IB) schools share a common philosophy—a commitment to a high quality, challenging, international education that P-CCS believes is important for our students.

Arts Academy

The Arts Academy @ The Park (AA@P) is for those students - musicians, photographers, actors, painters, sculptors or dancers - who see the world from an artistic perspective. Highlights of the AA@P include an arts integrated English, Science and Social studies courses in freshman and sophomore years, the opportunity to explore a chosen arts specialty in greater depth, participation in Academy performance events and community work, and a collaborative/community-focused capstone experience, Thanks to partnerships with University Musical Society @ UoM, Michigan Philharmonic, College for Creative Studies in Detroit and other local universities, Arts Academy students experience world class performances and interact with teaching artists both on and off campus.

STEM Academy

With the continuing globalization of the world’s economy, employers place a premium on, and will pay a high wage to, workers who possess the knowledge and skills to create new and innovative products and concepts. Students who commit to the STEM Academy @ The Park (SA@P) will take directed and focused steps toward competent and capable citizenship in a dynamic and technology-dependent society. The Project Lead the Way curriculum allows students to experience college preparatory-level classes and introduces them to the scope, rigor, and discipline of Engineering, Biomedicine, and Computer Science prior to entering a two-year college or four-year university.

In addition to a clear emphasis on studies in science, technology, engineering, and mathematics, highlights of the SA@P include a commitment to project-based based learning, partnerships with international businesses located within close proximity to the school district, career readiness, field experiences, a senior seminar, and partnerships with higher educational institutes to allow students to possibly get a jump on their next step in education.

Updated information is maintained on the Park website at http://www.pccsk12.com/pcep and search “Academies at The Park.”
International Academy Courses

All courses regardless of level are taught over two years during the student's junior and senior year. The simple difference between the two levels is volume of material covered and a slightly different output on the internal and external assessments tasks.

Standard Level (SL) courses are similar in volume of material covered with relationship to correlated AP Exams. Higher Level (HL) courses are beyond the volume and scope of material covered with relationship to correlated AP Exams. To complete the Diploma Programme, students must take three SL courses and three HL courses. Students not enrolled in the IA@P may take individual IB courses if space permits. All courses culminate with an external assessment.

Group 1: Studies in Language & Literature

<table>
<thead>
<tr>
<th>Language &amp; Literature HL</th>
<th>First Year</th>
<th>1.0 credit</th>
<th>Course 04001</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Second Year</td>
<td>1.0 credit</td>
<td>Course 04002</td>
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</table>

(1.0 Honor Point)

IB English HL is a two year course that focuses on language study in the junior year, and literature study in the senior year. Students should expect a challenging curriculum; but also, one that puts personal interpretation at the heart of all learning. Students will master the use of his/her own critical thinking skills and apply them to literature - both fiction and nonfiction - from all around the world. Experiences unique to IB English HL are frequent oral presentations by the student followed by oral critiques by the teacher, the implementation of theory of knowledge and metacognition as a part of the analysis of text and language.

Group 2: Language Acquisition

The aims of the IB language courses are that students can communicate clearly and effectively in a range of situations, demonstrating linguistic competence and intercultural understanding. In these two year courses, students will use language appropriate to a range of interpersonal and/or cultural contexts to communicate. They will learn to understand and use language to express and respond to a range of ideas with accuracy and fluency. Students will understand, analyze and respond to a range of written and spoken contexts. They will also understand and use works of literature written in the target language of study.

Spanish SL Prerequisite: Spanish 2 or higher
<table>
<thead>
<tr>
<th>First Year</th>
<th>1.0 credit</th>
<th>Course 05201</th>
</tr>
</thead>
<tbody>
<tr>
<td>Second Year</td>
<td>1.0 credit</td>
<td>Course 05202</td>
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</table>

Spanish Ab Initio SL
<table>
<thead>
<tr>
<th>First Year</th>
<th>1.0 credit</th>
<th>Course 16420</th>
</tr>
</thead>
<tbody>
<tr>
<td>Second Year</td>
<td>1.0 credit</td>
<td>Course 16421</td>
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</table>

French SL Prerequisite: French 2 or Higher
<table>
<thead>
<tr>
<th>First Year</th>
<th>1.0 credit</th>
<th>Course 05051</th>
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</thead>
<tbody>
<tr>
<td>Second Year</td>
<td>1.0 credit</td>
<td>Course 05052</td>
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</table>

Mandarin Ab Initio SL
<table>
<thead>
<tr>
<th>First Year</th>
<th>1.0 credit</th>
<th>Course 16401</th>
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<tbody>
<tr>
<td>Second Year</td>
<td>1.0 credit</td>
<td>Course 16403</td>
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</table>

Group 3: Individuals & Societies

Geography HL
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<thead>
<tr>
<th>First Year</th>
<th>1.0 credit</th>
<th>Course 12281</th>
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<tbody>
<tr>
<td>Second Year</td>
<td>1.0 credit</td>
<td>Course 12282</td>
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<tr>
<td>(1 Honor Point)</td>
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Geography SL
<table>
<thead>
<tr>
<th>First Year</th>
<th>1.0 credit</th>
<th>Course 12271</th>
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</thead>
<tbody>
<tr>
<td>Second Year</td>
<td>1.0 credit</td>
<td>Course 12272</td>
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</tbody>
</table>

IB Geography is a two year interdisciplinary course that bridges the social and physical sciences. This subject area challenges individuals to apply what is known about the physical landscape with how humans respond to that landscape. Students who enroll in this course will be challenged to combine complex global issues and research with their own beliefs and ideas. They will engage in an in-depth look at various regions throughout the world in an effort to gain a thorough understanding of the physical environment, culture, people, and societies that develop.

World Religions SL
<table>
<thead>
<tr>
<th>First Year</th>
<th>1.0 credit</th>
<th>Course 12291</th>
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<tbody>
<tr>
<td>Second Year</td>
<td>1.0 credit</td>
<td>Course 12292</td>
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</tbody>
</table>

IB World Religions is a two year course. The power of religion to both unite and divide effects believers and nonbelievers alike. This course will promote respect for the diversity of religious beliefs, both locally and globally, with the aim of enhancing international and inter-religious understanding. Emphasis will be on a deeper approach to the study of contemporary faiths and to gain greater appreciation for each religion in its original setting, and how it has evolved to where it is today. Students will engage in an experiential dimension in and out of the classroom, bringing them into contact with members of faith communities, sacred spaces, and varied examples of what it means to be a follower of each particular religion.

Psychology HL
<table>
<thead>
<tr>
<th>First Year</th>
<th>1.0 Credit</th>
<th>Course 12261</th>
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</thead>
<tbody>
<tr>
<td>Second Year</td>
<td>1.0 Credit</td>
<td>Course 12262</td>
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</table>

Psychology SL
<table>
<thead>
<tr>
<th>First Year</th>
<th>1.0 Credit</th>
<th>Course 12251</th>
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</thead>
<tbody>
<tr>
<td>Second Year</td>
<td>1.0 Credit</td>
<td>Course 12252</td>
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</table>

The IB Diploma Programme psychology course aims to develop an awareness of how research findings can be applied to better understand human behavior and how ethical practices are upheld in psychological inquiry. Students learn to understand the biological, cognitive and sociocultural influences on human behavior and explore alternative explanations of behavior. They also understand and use diverse methods of psychological inquiry.

Online Course Options

Psychology HL
<table>
<thead>
<tr>
<th>First Year</th>
<th>1.0 Credit</th>
<th>Course 16302</th>
</tr>
</thead>
<tbody>
<tr>
<td>Second Year</td>
<td>1.0 Credit</td>
<td>Course 16305</td>
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</table>

Psychology SL
<table>
<thead>
<tr>
<th>First Year</th>
<th>1.0 Credit</th>
<th>Course 16301</th>
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<tbody>
<tr>
<td>Second Year</td>
<td>1.0 Credit</td>
<td>Course 16304</td>
</tr>
</tbody>
</table>
Group 4: The Sciences

Biology HL
First Year 1.0 credit Course 11011
Second Year 1.0 credit Course 11012
(1 Honor Point)

IB Biology is a two year course that emphasizes a practical approach of studying biology through experimental work. Inquiry based reasoning methods will involve the formation, testing, and modification of hypothesis through observation, experimentation, collection, and analysis of data. Students will collaborate, utilize informational technology skills, appreciate scientific limitations and possibilities, and understand the significance of the scientific process. Four basic biological concepts that run throughout the course include: structure and function, universality versus diversity, equilibrium within systems, and evolution.

Chemistry HL
First Year 1.0 credit Course 11041
Second Year 1.0 credit Course 11042
(1 Honor Point)

IB Chemistry is a two year course that combines academic study with the acquisition of practical and investigational skills through the experimental approach. Students learn the chemical principles that underpin both the physical environment and biological systems through the study of quantitative chemistry, periodicity, kinetics and other subjects. The chemistry course covers the essential principles of the subject and demands that students become aware of how scientists work and communicate with each other. Further, students enjoy multiple opportunities for scientific study and creative inquiry within a global context.

Environmental Systems SL
First Year 1.0 credit Course 11081
Second Year 1.0 credit Course 11082

Environmental Systems & Societies (ESS) is a two-year transdisciplinary course. This course is unique in that it contains various sciences, coupled with societal viewpoints, all intertwined to help students understand the environment and its sustainability. This course attempts to discuss the issues surrounding resource use from that of the individual to that of the global community. Students’ attention will be drawn to their own relationship with the environment and the significance of the choices and decisions that they make in their own lives. Students will leave with a critical awareness of a diversity of cultural perspectives on the environment, and that environmental issues may be controversial. The purpose of this course is to expose students to the interrelationships of the environment and societies, and the nature of these interactions, so that they can make informed personal responses to a wide range of pressing global issues. The course requires field experiences which will further extend the interrelationships between the environment and societies. On a citizenship level, the value of local as well as international collaboration in resolving environmental problems is an integral part of the course.

Physics HL
First Year 1.0 credit Course 11121
Second Year 1.0 credit Course 11122
(1 Honor Point)

Prerequisite: Successful completion of Chemistry/ChemCom. Successful completion of Geometry and enrolled in Algebra 2 or IB math course.

IB Physics is a two year, algebra-based physics course that students will begin in their junior year of high school. The course will cover a wide range of topics that show how scientists make sense of a wide range of phenomenon in the universe, from the very small (subatomic particles) to the very large (stars and galaxies). Students are also expected to have taken or be concurrently enrolled in a chemistry class. The students will develop their understanding of physics through an inquiry-based approach that uses experimental results and critical thinking to build conceptual and mathematical models.

Group 5: Mathematics

Mathematical Studies SL
First Year 1.0 credit Course 08201
Second Year 1.0 credit Course 08202

Mathematical Studies is a two-year, International Baccalaureate, course that is for students with varied backgrounds and abilities. The course is designed to build confidence and encourage an appreciation of mathematics in students who do not anticipate a need for mathematics in their future studies. Students taking this course, however, should be already equipped with fundamental skills and a rudimentary knowledge of basic processes.

Mathematics SL
First Year 1.0 credit Course 08211
Second Year 1.0 credit, 1 Honor Point Course 08212

Mathematics SL is a two-year, International Baccalaureate, course that is for students with knowledge of basic mathematical concepts who are able to apply simple mathematical techniques correctly. The course provides students with a sound mathematical background to prepare for future studies in subjects such as chemistry, economics, psychology and business administration. Students will be introduced to important mathematical concepts through the development of mathematical techniques in a way that emphasizes subject comprehension rather than mathematical rigor. Students should, where possible, apply the acquired mathematical knowledge to solve realistic problems. This class will prepare students to take the AP Calc AB Exam if they so choose.

IB Mathematics HL
First Year 1.0 credit Course 08221
Second Year 1.0 credit Course 08222
(1 Honor Point)

IB Mathematics HL is a two-year International Baccalaureate course for students with a strong background in mathematics and competence in a range of analytical and technical skills. Students will be likely to include mathematics as a major component of university studies—either in its own right or within courses such as physics, engineering or technology. The course focuses on developing important mathematical concepts in a comprehensive, coherent and rigorous way through a balanced approach. Students are encouraged to apply their mathematical knowledge to solve problems set in a variety of meaningful contexts and to justify and prove results. Students develop insights into mathematical form and structure and become intellectually equipped to appreciate the links between concepts in different topic areas. They will also be urged to develop the skills needed to continue their mathematical growth in other learning environments. The course is also for students who have a strong interest in mathematics and enjoy meeting its challenges. It will prepare students to take both the AP Calc BC and AP Stats exams.
Group 6: The Arts

Music HL
First Year 1.0 credit  Course 09211
Second Year 1.0 credit  Course 09212
(1 Honor Point for HL)

Music SL
First Year 1.0 credit  Course 09201
Second Year 1.0 credit  Course 09202

IB Music is a two year, International Baccalaureate, course where students will explore music from various musical cultures and styles – from Bach to rock, Debussy to dubstep, Gamelan to Gregorian chant. Students will gain skills in score study, music theory, and music arrangement; and engage in in-depth analysis of two prescribed masterworks. Class time will be dedicated to listening to, writing about, performing, improvising, arranging and creating all kinds of amazing music in a variety of group and solo settings. Students should have some background in vocal or instrumental music performance and be able to read standard notation at an intermediate level.

IB Visual Arts HL 1
First Year 1.0 credit  Course 02811
(1 Honor Point for HL)

IB Visual Arts SL 1
First Year 1.0 credit  Course 02801
Grade 11, 12 Prerequisite: At least one other Visual Arts course (or related experience).

All students must complete an application and submit a portfolio for approval by the art department before enrolling in the class. Pick up applications in the Counseling Office or from a visual arts teacher. This course is designed for motivated students who wish to fully engage in the artistic process through in-depth study in both written and visual formats.

Arts Academy Course

Arts Academy Capstone 1.0 credit  Course 02990
This course offers seniors in the Arts Academy the opportunity to engage in an arts-based, cumulative, collaborative, and community-centered project of their choosing. All students propose a solo or group project in their arts area(s). Examples include (but are not limited to) group and solo performances; group and solo art displays; creating and offering arts-based workshops; writing and performing works of theatre; directing and producing short films. Students work with the course teacher and other supporting faculty and community members to identify resources on campus and in the community, as well as create and adhere to a timeline that culminates with a public event during the end of the second semester.

Students will explore and develop art techniques in a broad range of stylistic approaches and media (2-D & 3-D), producing meaningful, creative, and personally relevant works of art. They will also keep an investigation workbook, where they will plan all of their studio work, record ideas and inspiration, practice techniques, research artists, art movements, and culture, and engage in written self-reflection and critical analysis. The semester grade is split 60/40 between studio work and the investigation workbook. Students who take this course should possess basic drawing skills and should be comfortable discussing and writing about their own art and the art of others. Two gallery visits per semester will be required. Students should be prepared to be challenged with open-ended projects that require critical and creative thinking.

IB Visual Arts HL 2
Second Year 1.0 credit  Course 02812
(1 Honor Point for HL)

IB Visual Arts SL 2
Second Year 1.0 credit  Course 02802
Grade 12 Prerequisite: IB Visual Arts 1 During year two, students will continue their exploration and development of art techniques in a broad range of stylistic approaches and media, using their investigation workbooks to explore art concepts, continue personal research, and exhibit critical thinking in both written and visual forms. Students can expect to work more independently and will be working towards expressing a growing sophistication in their personal vision and voice as artists. This course will culminate in preparation for and completion of the IB exam, which includes a portfolio of artwork.
## STEM Academy Courses

### STEM Pathway to Biomedical Sciences

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit</th>
<th>Prerequisite</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course 11510</td>
<td>Principles of Biomedical Sciences</td>
<td>1.0</td>
<td>Course 1150</td>
<td>Students investigate various health conditions including heart disease, diabetes, sickle-cell disease, hypercholesterolemia, and infectious diseases. They determine the factors that led to the death of a fictional person, and investigate lifestyle choices and medical treatments that might have prolonged the person’s life. The activities and projects introduce students to human physiology, medicine, and research processes. This course provides an overview of all the courses in the Biomedical Sciences program and lays the scientific foundation for subsequent courses. This course is designed for 9th/10th grade students.</td>
</tr>
<tr>
<td>Course 11520</td>
<td>Human Body Systems</td>
<td>1.0</td>
<td>Principles of Biomedical Science</td>
<td>Students examine the interactions of human body systems as they explore identity, power, movement, protection, and homeostasis. Students design experiments, investigate the structures and functions of the human body, and use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration. Exploring science in action, students build organs and tissues on a skeletal manikin, work through interesting real world cases and often play the roles of biomedical professionals to solve medical mysteries. This course is designed for 10th/11th grade students.</td>
</tr>
<tr>
<td>Course 11530</td>
<td>Medical Interventions</td>
<td>1.0</td>
<td>Human Body Systems</td>
<td>Students investigate a variety of interventions involved in the prevention, diagnosis and treatment of disease as they follow the life of a fictitious family. The course is a “How-To” manual for maintaining overall health and homeostasis in the body. Students explore how to prevent and fight infection; screen and evaluate the code in human DNA; prevent, diagnose and treat cancer; and prevail when the organs of the body begin to fail. Through these scenarios, students are exposed to a range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, and diagnostics. This course is designed for 11th/12th grade students.</td>
</tr>
<tr>
<td>Course 11540</td>
<td>Biomedical Innovation</td>
<td>1.0</td>
<td>Medical Interventions</td>
<td>Students design innovative solutions for the health challenges of the 21st century. They work through progressively challenging open-ended problems, addressing topics such as clinical medicine, physiology, biomedical engineering, and public health. They have the opportunity to work on an independent project with a mentor or advisor from a university, hospital, research institution, or the biomedical industry. Throughout the course, students are expected to present their work to an audience of STEM professionals. This course is designed for 12th grade students.</td>
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### STEM Pathway to Engineering

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit</th>
<th>Prerequisite</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>Course 11610</td>
<td>Introduction to Engineering Design</td>
<td>1.0</td>
<td>Principles of Engineering</td>
<td>Designed for 9th grade students, the major focus of IED is the design process and its application. Through hands-on projects, students apply engineering standards and document their work. Students use industry standard 3D modeling software (Autodesk Inventor) to design solutions to solve proposed problems, document their work using an engineer’s notebook, and communicate solutions to peers and members of the professional community.</td>
</tr>
<tr>
<td>Course 11620</td>
<td>Principles of Engineering</td>
<td>1.0</td>
<td>Introduction to Engineering Design</td>
<td>Prerequisite: Introduction to Engineering Design Designed for 10th grade students, this survey course exposes students to major concepts they’ll encounter in a postsecondary engineering course of study. Topics include mechanisms, energy, statics, materials, and kinematics. They develop problem-solving skills and apply their knowledge of research and design to create solutions to various challenges, document their work and communicate solutions. The students will learn how to write ROBOTC programs.</td>
</tr>
<tr>
<td>Course 11630</td>
<td>Biotechnical Engineering: Environmental Sustainability</td>
<td>1.0</td>
<td>Principles of Engineering</td>
<td>In this course, students investigate and design solutions in response to real-world challenges related to clean and abundant drinking water, food supply, and renewable energy. Applying their knowledge through hands-on activities and simulations, students research and design potential solutions to these true-to-life challenges. Students build on knowledge from their prior two engineering courses to accomplish this. This course is designed for 11th grade students.</td>
</tr>
<tr>
<td>Course 11635</td>
<td>Computer Integrated Manufacturing</td>
<td>1.0</td>
<td>Principles of Engineering</td>
<td>Prerequisite: Principles of Engineering How are things made? What processes go into creating products? Is the process for making a water bottle the same as it is for a musical instrument? How do assembly lines work? How has automation changed the face of manufacturing? While students discover the answers to these questions, they’re learning about the history of manufacturing, robotics and automation, manufacturing processes, computer modeling, manufacturing equipment, and flexible manufacturing systems. This course is designed for 11th grade students.</td>
</tr>
<tr>
<td>Course 11640</td>
<td>Engineering Design &amp; Development - Capstone</td>
<td>1.0</td>
<td>Introduction to Engineering Design &amp; Principles of Engineering Grade 12 only.</td>
<td>Prerequisite: Introduction to Engineering Design &amp; Principles of Engineering Grade 12 only. In this capstone course, students work in teams to design and develop an original solution to a valid open-ended technical problem by applying the engineering design process. Students perform research to choose, validate, and justify a technical problem. After carefully defining the problem, teams design, build, and test their solutions while working closely with industry professionals. Finally, student teams present and defend their original solution to an outside panel.</td>
</tr>
</tbody>
</table>
STEM Pathway to Computer Science

Computer Science Essentials  
Course 13167

1.0 credit
Grade 9
Prerequisite: None.
In Computer Science Essentials, students will use visual, block-based programming and seamlessly transition to text-based programming with languages such as Python to create apps and develop websites, and learn how to make computers work together to put their design into practice. They’ll apply computational thinking practices, build their vocabulary, and collaborate just as computing professionals do to create products that address topics and problems important to them. Computer Science Essentials helps students create a strong foundation to advance to Computer Science Principles, Computer Science A, and beyond.

Computer Science Principles  
Course 13165

1.0 credit
Prerequisite: Computer Science Essentials
CSP introduces students to the foundational concepts of computer science and challenges them to explore how computing and technology can impact the world. With a unique focus on creative problem solving and real-world applications, CSP helps students develop programming expertise and explore the workings of the Internet. Projects and problems include app development, visualization of data, cybersecurity, and simulation.
Work with Python, Scratch, PHP, MySQL, JavaScript, NAND/NOR gates, App Inventor, HTML5, and much more.

Advanced Placement Computer Science/Java  
Course 08015

1.0 credit, 1 Honor Point
Prerequisite: Computer Science Principles.
This course meets the applied math credit.
This is an advanced computer course in the Java language. Course follows the recommendations of the Advanced Placement Committee. Object oriented programming, algorithms, data structures, and problem solving are emphasized. Information on Advanced Placement course expectations can be obtained from the Counseling Office.

Cyber Security  
Course 13166

1.0 credit
Prerequisite: AP Java
This course provides students with an introduction to computer communication from an engineering perspective. It focuses on the principles of these communications and the basic concepts of the architecture of computer networks. Students will explore the vulnerabilities of computer networks, attack forms, countermeasures, and defense systems. They will use a variety of tools for securing hardware and software. Major units of study include Social Engineering, Authentication, Network Recon, Attacks, Defensive Techniques, Cryptography, Secure Access, BCP/Data Recovery, and Online Attacks.
GROWTH PROGRAMS

Growth Programs at P-CEP integrate academic support with personal growth skills in the following growth areas: communication, healthy relationships, stress, self-esteem, organization and personal responsibility. Growth Programs respond to students who need additional support to improve their school performance and make successful decisions.

Recognizing the uniqueness of each student, our staff works with students, teachers and family to resolve issues that interfere with the student’s success at school. Students must have teacher or AP approval to repeat any support group.

<table>
<thead>
<tr>
<th>Grade</th>
<th>Courses Available</th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
<td>Journey Program</td>
</tr>
<tr>
<td>10</td>
<td>Personal Growth Workshop</td>
</tr>
<tr>
<td></td>
<td>Leadership: Project-Based Learning</td>
</tr>
<tr>
<td>11</td>
<td>Personal Growth Workshop</td>
</tr>
<tr>
<td></td>
<td>Leadership: Project-Based Learning</td>
</tr>
<tr>
<td>12</td>
<td>Personal Growth Workshop</td>
</tr>
<tr>
<td></td>
<td>Leadership: Mentoring &amp; Mediation</td>
</tr>
<tr>
<td></td>
<td>Leadership: Project-Based Learning</td>
</tr>
</tbody>
</table>

Journey Program  Course 01037
1.0 credit
Grade 9
Prerequisite: Teacher approval is required.
In the Journey Program, students build academic and personal growth skills for success in high school and beyond. Students work together along with staff for a full year to improve GPA and reach personal goals. A small number of Journey students may choose to continue their work in a Journey Group after ninth grade if they have begun to show growth toward their academic and/or personal growths goals AND they have permission from Journey staff to participate. To join the Journey Program, contact your counselor or Journey staff (204A - Plymouth).

Personal Growth Workshop  Fall Course 01020
0.5 credit  Spring Course 01030
Grade 10-12
Prerequisite: Desire for personal growth.
This course is appropriate for students who want support and instruction to address issues interfering with academic and personal potential. The goal is to develop skills in self-understanding, communication, problem solving, conflict resolution and self-esteem. The process of group interaction is used to evaluate patterns of behavior and then individualized student plans of action are designed to promote positive changes. Special topics include critical thinking, relationships, family issues, substance abuse, friendship and personal adjustment. Enrollment is limited.

Leadership: Mentoring & Mediation
Course 01010
1.0 credit
Grade 12
Prerequisite: Students must be recommended by staff for this course. Interested students may request an application from a counselor or see Growth Programs staff for information.

The Mentoring and Mediation class is for seniors who have maintained high academic standing and wish to help other Park students with tutoring and peer support. Mentor training includes mediation and assertiveness training, boundary-setting, goals & growth, and empathy training. Student mentor sessions must be supervised by Support Programs Staff. Mentor projects and community service are additional components of this class.

Leadership: Project-Based Learning
Course 01055
0.5 credit
Grades 9-12
Prerequisite: Students must be recommended by staff for this course. Interested students may request an application from a counselor or see Growth Programs staff for information.

This leadership class is for students who have demonstrated leadership qualities and wish to help other Park students through planning and implementing community service initiatives and school wide events.
CAREER AND TECHNICAL EDUCATION

AUTOMOTIVE TECHNOLOGY

Automobile Service and Maintenance
0.5 credit
Course 13070
Grades 10-12
Course approved for Applied Mathematics.
Prerequisite: None.
The Automobile and Service Maintenance Course is designed to educate anyone that owns or will own a vehicle. The topics covered in this course are basic vehicle maintenance, minor vehicle repairs, introduction on how the eight systems work in a vehicle, how to purchase insurance and afford your vehicle, and more. You will acquire the skills necessary to perform basic vehicle maintenance, which can be done by any vehicle owner. Areas of study include: safe work habits, automotive history, basic tools and measurement knowledge, and basic automotive system fundamentals. If a person is going to own a vehicle this course is for you.

Auto Mechanics I
1.0 credit
Course 13060
Grades 9-12
Course approved for Applied Mathematics.
Prerequisite: None.
Auto Mechanics I is a pre-vocational course open to students interested in pursuing auto mechanics as a possible career. During the semester, students will be instructed in the proper use of automotive tools and equipment. Further, students will also be instructed on all of the major systems of the automobile.

Advanced Automotive Technology
2.0 credits (2 hour block)
Course 13010
Grades 11-12
Course approved for Applied Mathematics.
Prerequisite: Auto Mechanics I or instructor permission
This course is a vocation-structured course designed for the serious-minded student who has a special interest in advanced automobile techniques and modern diagnostic service procedures. Emphasis is placed on the student’s future career in the automotive industry.

Introduction to Auto Paint
1.0 credit
Course 13050
Grades 9-12
Course approved for Visual, Performing, and Applied Arts or Applied Mathematics.
Prerequisite: None.
Intro to Auto Paint is a full year course in applying basecoat and clear-coat systems, repairing damage to auto panels and custom painting techniques. Learn extensive spraying techniques and the art of applying flames, stripes and fading of colors.

Auto Paint is a hands-on course where students spend most days in the lab working. This course introduces students to the operations of automotive refinishing and custom painting. Students will learn to complete minor repairs of automotive finishes, apply primers, sealers, basecoats and clearcoats, just as you would in a traditional repair facility. Students will also spend a significant amount of time in the lab learning custom painting techniques using tools like the air brush, micro spray guns, pinstriping, pattern templates, masking, among many other custom paint techniques. Students will learn how to paint a variety of designs from traditional hot rod flames, lowrider paint schemes with metal flake, to flags, torn sheet metal with rivets, shadowing, wood grain, and more.

Collision Repair/Auto Restoration
2.0 credits (2 hour block)
Course 13080
Grades 9-12
Course approved for Applied Mathematics.
Prerequisite: None.
Collision Repair is a full year course in painting, metal finishing, sheet metal fabrication, welding, estimating, and disassembling/assembling of repaired and restored vehicles. Working with damaged cars will be an important facet of this course. Students will work with a wide array of body working tools, air tools, hand tools, metal fabrication equipment, oxy-acetylene torches and MIG welders. Collision Repair and Auto Restoration is a project-based course where students spend most days in the lab working with their hands.
BUSINESS EDUCATION

Accounting I  Course 03010
1.0 credit
Grades 10-12
Qualifies for an applied math credit.
Prerequisite: None.
This is a great course if you hope to own your own business or plan to study business. Learn accounting skills and basic bookkeeping techniques needed to run a small service and merchandise business. The course uses an online dynamic learning environment called Mindtap along with a traditional textbook. Students will be able to complete accounting problems and receive immediate feedback from any computer with an internet connection. Students will use an automated accounting software program and will complete an accounting business simulation to reinforce learning. All college and university business schools in Michigan require a two-semester course in accounting for business majors; this course prepares students for the first semester of that requirement. This class fulfills the senior level math requirement. This class can be taken before, after, or concurrently with Honors Financial and Managerial Accounting.

Honors Financial & Managerial Accounting 1.0 Credit  Course 03025
Grades: 10-12
Qualifies for an applied math credit.
Prerequisite: None.
This new course will accurately portray the rigor of college level accounting. Students will learn how businesses plan for and evaluate their operating, financing, and investing decisions and then how accounting systems gather and provide data to internal and external decisions makers. This year-long course covers all the learning objectives of a traditional college level financial accounting course, plus those from a managerial accounting course. Topics include an introduction to accounting information systems, time value of money, accounting for merchandising firms, sales and receivables, fixed assets, debt and equity, statement of cash flows, financial ratios, cost-volume profit analysis and variance analysis. The class may be taken before, after, or concurrently with Accounting 1. This course is an excellent choice for fulfilling the senior level math requirement, and should only be taken by students with a commitment to complete college level coursework.

Business Administration and Management 1.0 credit  Course 03165
Grades 10-12
Prerequisite: None.
Students analyze the primary functions of management and leadership, which are planning, organizing, staffing, directing or leading and controlling. Topics will incorporate social responsibility of business and industry. Students develop a foundation in the economical, financial, technological, international, social and ethical aspects of business to become competent managers, employees and entrepreneurs. Students incorporate a broad base of knowledge that includes the legal, managerial, marketing, financial, ethical and international dimensions of business to make appropriate management decisions.

Exploring Business 0.5 credit  Course 03120
Grades 9-10.
Prerequisite: None.
Students explore business and career opportunities in this class. Learn the basics of business and how it affects everyday life as well as aid in future course selections. The class will discuss current events as they relate to business. Students learn about teamwork, employability skills, personal finance, international business, human relations, work ethics, and basic business management skills. In addition, students will complete units on retail businesses, banking, stock market, basic accounting, and computers. Computers are used as a business tool in this class.

International Business 0.5 credit  Course 03175
Grades 10-12
This semester course allows students to study international trade by using a variety of resources for investigation. Elementary international economic theory is applied to study the impact of trade in the USA and in other countries. Culture, history, language, values, social behaviors, along with market conditions and demographics are used by students to determine the possibilities of doing business with other countries.

Personal Business Law 0.5 credit  Course 03170
Grades 10-12
An understanding of the fundamentals of law has value for everyone. The primary aim of this course is directed toward helping students understand their legal obligations as they enter into contractual arrangements each day. Although the emphasis of this course is on law for personal use, the course will also help students develop a better understanding of their rights and duties under the law in business and how it responds to the changing times. The topics of contracts, sales, bailments and insurance, as well as many others will be covered.

Finance and Investment 0.5 credit  Course 03130
Grades 10-12.
Qualifies for online learning or Applied Math credit.
Prerequisite: None.
Do you want to learn how to handle your money? Have you always wondered how the stock market works? This course teaches the fundamentals in the areas of personal finance, banking, credit, insurance, and investing. Emphasis is placed on the stock market, including participation in the Stock Market Game, a ten-week stock-trading simulation. Students learn how to invest and what to invest in. Emphasis is placed on how to avoid and stay out of debt, along with strategies for living a debt-free life by focusing on saving, goal-setting, budgeting, and using credit wisely. Students will apply problem-solving and computation skills through practical applications such as writing checks, calculating interest, preparing a budget, and evaluating stock transactions.
Real Estate Essentials Course 03125
0.5 credits
Grades 10-12.
Course qualifies for Applied Math credit.
Prerequisite: None.
Students will be introduced to real estate essentials that include an in-depth look at real estate careers, usages of land, land ownership, mortgages, liens, deeds, the appraisal process, the home inspection process, financing sources, investments in real estate, contracts, property law, and the sales and marketing process. Students will approach these real estate concepts from an ethical, customer-based point of view and will be involved in several creative research projects and fun marketing simulations.

COMPUTER SCIENCE

Sample Computer Science Student Schedule

<table>
<thead>
<tr>
<th></th>
<th>Grade 9</th>
<th>Grade 10</th>
<th>Grade 11</th>
<th>Grade 12</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Hour</td>
<td>English 9--World Literature</td>
<td>American Lit/Writing</td>
<td>One semester writing course AND one semester literature course</td>
<td>One semester writing course and one semester literature course OR one year-long course</td>
</tr>
<tr>
<td>Second Hour</td>
<td>Algebra 1 or Advanced Algebra 1</td>
<td>Geometry or Honors Geometry</td>
<td>Algebra 2 or Algebra 2 with Trig or Honors Algebra 2</td>
<td>AP Computer Science (1.0 Applied Math)</td>
</tr>
<tr>
<td>Third Hour</td>
<td>World History or AP World History</td>
<td>US History or AP US History</td>
<td>PES or AP Macro &amp; AP Micro &amp; AP Gov</td>
<td>Logic &amp; Reasoning (.5) Probability &amp; Stats (.5)</td>
</tr>
<tr>
<td>Fourth Hour</td>
<td>Geophysical Science</td>
<td>Biology or Honors Biology</td>
<td>Chemistry, ChemCom</td>
<td>Physics, or AP Physics</td>
</tr>
<tr>
<td>Fifth Hour</td>
<td>Health (.5) PE (.5)</td>
<td>Robotics (.5) Electronics I (.5)</td>
<td>Introduction to Computer Programming (.5) Electronics II (.5)</td>
<td>Automation and Robotics (2.0)</td>
</tr>
<tr>
<td>Sixth Hour</td>
<td>Language Other Than English or Computer Science Essentials</td>
<td>Computer Science Principles</td>
<td>Web Design &amp; Internet (.5) Photoshop (.5)</td>
<td>Cybersecurity</td>
</tr>
</tbody>
</table>
Introduction to Computer Programming  
Course 08100  
0.5 credit  
Grades 9-12  
This course meets the applied math credit.  
Prerequisite: None.  
This course teaches students algorithm design, problem solving, and applied mathematics through the use of the C++ programming language.  
The students will be introduced to all of the following essential components of programming: variables, arithmetic, conditional structures, iterative structures, subroutines, input/output, data structures, and object oriented programming. The C++ language and associated technology will be used due to its common use in professional practice and its similarity to other high level languages such as Python and Java.  
In addition to the technical aspects of programming, the course will cover such topics as ethical use of computing technology, binary representation of information, the Von Neumann architecture, compilers, integrated development environments, debuggers, grammars and the history of computer science.

Computer Science Principles  
Course 13165  
1.0 credit  
Grades 9-12  
Prerequisite: None.  
CSP introduces students to the foundational concepts of computer science and challenges them to explore how computing and technology can impact the world. With a unique focus on creative problem solving and real-world applications, CSP helps students develop programming expertise and explore the workings of the Internet. Projects and problems include app development, visualization of data, cybersecurity, and simulation.  
Work with Python, Scratch, PHP, MySQL, JavaScript, NAND/NOR gates, App Inventor, HTML5, and much more.

Cybersecurity  
Course 13166  
1.0 credit  
Grades 10-12  
This course provides students with an introduction to cybersecurity through the study of IT hardware and software concepts, networking, ethical hacking, and forensics. Students will explore various computer and network vulnerabilities, attack forms, countermeasures, and defense systems. Major units of study include: Data Confidentiality, Integrity, and Availability; Threats, Vulnerabilities, and Attacks; Windows and Linux System Administration/Linux Command Line.

Computer Science Essentials  
Course 13167  
1.0 credit  
Grades 9-12  
Prerequisite: None.  
In Computer Science Essentials, students will use visual, block-based programming and seamlessly transition to text-based programming with languages such as Python to create apps and develop websites, and learn how to make computers work together to put their design into practice. They’ll apply computational thinking practices, build their vocabulary, and collaborate just as computing professionals do to create products that address topics and problems important to them.  
Computer Science Essentials helps students create a strong foundation to advance to Computer Science Principles, Computer Science A, and beyond.

Advanced Placement Computer Science (AP Java)  
Course 08015  
1.0 credit, 1 Honor Point  
Grades 10-12  
This course meets the applied math credit.  
Prerequisite: Introduction to Computer Programming with a grade of "B" or better.  
This is an advanced computer course in the Java language. Course follows the recommendations of the Advanced Placement Committee. Object-oriented programming, algorithms, data structures, and problem solving are emphasized. Information on Advanced Placement course expectations can be obtained from the Counseling Office.

Agile Development through English Language Arts (ADELA) - pilot  
Course 11641  
0.5 Credit  
Grades: 11-12  
Prerequisite: Teacher Approval  
This course is designed to immerse students in real-world application of Computer Science and English Language Arts skills. Like creating an essay with a thesis statement, students will begin with a question, problem, or idea for innovation. Students will be asked to collaborate and design as they are lead through the Agile Development Process used in the Engineering and Computer Science industries for the semester. The work will culminate in a live or digital presentation of their work. Throughout the course, students’ work will be guided by both teachers and professionals in appropriate fields who will serve as thinking partners for their work. Students will complete advanced-level research to develop a solution, write reflective and professional pieces to chronicle the product/service/idea development, develop calendars and plans, and create some sort of artifact that may be tangible or digital; if appropriate, students will be connected with resources to patent their idea or product. The class will focus on both the academic skills necessary to develop relevant and realistic products as well as the soft skills needed to create and innovate. Students will be evaluated using standards-based rubrics that monitor their progress in the areas of research, communication (both oral and written), project management, product development, and professionalism. Though it may count as an elective, this course meets Michigan Merit Curriculum requirements for English credit in 11.12th grade as well as the Career and Technical Education’s Computer Programming GAP Analysis standards.
**Sample Computer Specialist Schedule**

<table>
<thead>
<tr>
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<th>Grade 12</th>
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<tbody>
<tr>
<td></td>
<td>English 9--World Literature</td>
<td>American Lit/Writing</td>
<td>One semester writing course AND one semester literature course</td>
<td>One semester writing course and one semester literature course OR one year-long course</td>
</tr>
<tr>
<td>Second Hour</td>
<td>Algebra 1 or Algebra 1 Advanced</td>
<td>Geometry or Honors Geometry</td>
<td>Algebra 2 or Algebra 2 with Trig or Honors Algebra 2</td>
<td>*Intro to Computer Programming (.5)</td>
</tr>
<tr>
<td>Third Hour</td>
<td>World History or AP World History</td>
<td>US History or AP US History</td>
<td>PES or AP Macro &amp; AP Micro &amp; AP Gov</td>
<td>*AP Computer Science</td>
</tr>
<tr>
<td>Fourth Hour</td>
<td>Geophysical Science</td>
<td>Biology or Honors Biology</td>
<td>Chemistry, ChemCom, Physics, or AP Physics</td>
<td>Cybersecurity</td>
</tr>
<tr>
<td>Fifth Hour</td>
<td>Health PE</td>
<td>Computer Applications (.5) *Microsoft Excel (.5)</td>
<td>**Web Design &amp; Internet (.5) **Photoshop (.5)</td>
<td>*Computer Science Principles</td>
</tr>
<tr>
<td>Sixth Hour</td>
<td>Language Other Than English</td>
<td>Any CTE course will fulfill the requirement for a second Language Other than English credit</td>
<td>Computer Science Essentials</td>
<td>Business Administration and Management</td>
</tr>
</tbody>
</table>

*These semester courses count as .5 math credit if taken as a senior.*
**These courses count as visual and performing arts.*
***This course counts as visual and performing arts or as a math credit if taken as a senior.

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**Computer Applications I**

**Course 03070**

0.5 credit

Grades 9-12

Prerequisite: None.

Do you want to spend more time having fun and less time doing homework? Increase your productivity by learning how to correctly use the keyboard, increase your speed and get those projects done in a snap! In this class students will learn to be proficient, productive, safe users of computer technology. You will learn to use the programs businesses use and colleges expect you to know—Microsoft Word, Excel, and PowerPoint. You will also use the internet, Moodle, forums, wikis, etc. to learn how to stay safe, best navigate the web for valid research, create a website, purchase a laptop and find your ideal career! Prepare for a lifetime of success! This class is an excellent way to meet the online learning experience state graduation requirement and is aligned to the Michigan and International Standards for Technology Education.

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**Web Design and Internet**

**Course 03075**

0.5 credit

Grades 9-12

This course qualifies for Visual, Performing, and Applied Arts graduation requirement.

Prerequisite: None.

This is an introductory course covering the basic concepts, techniques, and issues related to designing, developing, and maintaining a website. We will study the elements and principles that separate exceptional websites from those that are poorly designed. Students will learn how to create professional looking websites by using HTML, JavaScript and Cascading Style Sheets (CSS). The student's understanding and creativity will be extended and evaluated through a variety of projects and simulation scenarios. In addition, Adobe Dreamweaver CC software will be used to provide additional design tools needed to create high quality, dynamic, and interactive web pages.
Microsoft Excel  
Course 03080
0.5 credit
Grades 9-12
This course qualifies for 0.5 Applied Mathematics credit.
Prerequisite: None.
Using a project-oriented, step-by-step approach, students will learn a variety of advanced spreadsheet techniques and principles that will allow them to apply critical thinking skills to create worksheets suitable for personal and professional use. Emphasis is placed on formatting, formulas, functions, charting, what-if analysis and creation of advanced spreadsheets and graphs of increasing complexity. Whether you plan to go into business, education, science, engineering, or even owning your own business—a solid understanding of spreadsheet and charting concepts will be a valuable tool.

Photoshop  
Course 03078
0.5 credit
Grades 9-12
This course qualifies toward the Visual, Performing, and Applied Arts graduation requirement.
Prerequisite: None.
Develop advanced technology skills and become an expert user of this popular digital-multimedia software. Photoshop is a powerful, complex digital imaging software program for the creation, editing, and manipulation of graphics and images. The software will be used to create and edit graphics, pictures, and artwork for business applications, print, and web design. Students will learn how to use the extensive assortment of Photoshop tools, menus, palettes, options, settings, and features. We will explore the practical, powerful, and unexpected ways that you can create stunning images and graphics faster than ever before. The textbook and video tutorials for this course are detailed and easy to follow. Each week, students will also complete interesting and fun supplementary tutorials and projects. New computers, new textbooks, and new software upgrades make this course even better than before!

Digital Multimedia  
Course 03072
1.0 credit
Grades 9-12
These courses qualify toward the Visual, Performing, and Applied Arts graduation requirement.
Take Web Design and Internet and Photoshop in the same year to meet the requirements of this program offered through Career & Technical Education. Descriptions for each course are listed in the next column.

EDUCATIONAL FOUNDATIONS

Educational Foundations/Kiddie Kampus  
Course 13310
2.0 credits (2-hour block)
Grades 11-12
Prerequisite: None.
Interested in a career in the field of education?
This yearlong class will introduce you to the field of education and provide an extensive understanding of children. Students study child development, educational theory, and guidance techniques; then apply skills they have learned in our on-site preschool, Kiddie Kampus. You will create lesson plans and activities for preschool students. You will learn effective methods for working with children of all ages and then apply them to real life situations in the preschool. Students are encouraged to participate in additional educational experiences outside the classroom. Students will gain insights about teachers, schools, trends in education, current concerns and topics in the field and the educational system. Additionally, students continue improving their skills as professionals. Students may be eligible for articulation credit through some colleges. Students enrolled in the course must provide a record of a current TB skin test and a current physical. You must also provide a driver’s license or state ID for Family Independence Agency clearance. This is a state mandated requirement that insures staff or volunteers having contact with children undergo a criminal background check.
### Sample Engineering/CAD Student Schedule

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<th>Algebra 1 or Algebra 1 Advanced</th>
<th>Geometry or Honors Geometry</th>
<th>Algebra 2 or Algebra 2 with Trig or Honors Algebra 2</th>
<th>Automation and Robotics (2-hr. block)</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Third Hour</th>
<th>World History or AP World History</th>
<th>US History or AP US History</th>
<th>PES or AP Macro &amp; AP Micro &amp; AP Government</th>
<th>Automation and Robotics (2-hr. block)</th>
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</table>

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<thead>
<tr>
<th>Fourth Hour</th>
<th>Geophysical Science</th>
<th>Biology or Honors Biology</th>
<th>Chemistry, ChemCom, Physics, or AP Physics</th>
<th>Electronics I Electronics II</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Fifth Hour</th>
<th>Health PE</th>
<th>Technology Today Automobile Service and Maintenance</th>
<th>Drawing and Sketching Advanced Drawing and Sketching</th>
<th>Computer Graphics and Design I</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Sixth Hour</th>
<th>CAD I</th>
<th>CAD II</th>
<th>CAD III</th>
<th>Architectural and Computer-Aided Design</th>
</tr>
</thead>
</table>

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**These courses count as visual and performing arts.
***This course counts as visual and performing arts or as a math credit if taken as a senior.

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**Engineering - Computer Aided Design 1**

*Course 13130*

*Grades 9-12*

Course approved for Visual, Performing, and Applied Arts or Applied Mathematics.

**Prerequisite:** None.

This class introduces the student to Engineering concepts. In the beginning of the course the students will create hand drawing using the scale, triangles, templates, and compass properly. The students will develop multiple views of objects and dimension them. This course also focuses on computer-aided design (CAD) using AutoCAD 2013. As sectioned parts and 3D drawings are constructed, students begin to see how products are manufactured. As this “The language of technology” is being studied, the students will also create drawings on the computer (CAD) and generate hard copies on the plotter or on the 3D printer. The students will be able to use the “design process” to design parts for a project made during class.

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**Engineering - Computer Aided Design 3**

*Course 13150*

*Grades 11-12*

Course approved for Visual, Performing, and Applied Arts or Applied Mathematics.

**Prerequisite:** Engineering - Computer Aided Design 2

Students who have successful passed Engineering-CAD 2 may be eligible for dual enrollment at Schoolcraft College.

This course teaches advanced engineering skills. The students will spend the majority of their time using engineering concepts to design mechanical projects. They will use AutoCAD and be introduced to other software like mechanical desktop and Autodesk Inventor. They will develop both two-dimensional and three dimensional skills. The class studies the design of gears and cams along with incorporating specifications and calculations. Students will also be responsible for developing CAD drawing that is useful in the manufacturing process. The student will conclude the class by selecting a working drawing in the engineering field of his/her choice. Students may select from mechanical, welding, piping, electrical, aeronautical, or civil engineering drawing and develop it to the best of their abilities. A finished portfolio including all their work will be required of the students who take this course.
Encouraged to become members of HOSA (Health Occupations Students of America). Students will be certified in Professional Rescuer CPR and First Aid as part of the curriculum. Students who are enrolled in this class are expected to participate in note taking, class discussion, viewing videos, computer based instruction and assessments, written assignments and tests. Classroom time will be divided between classroom instruction, discussions, and hands-on activities such as taking blood pressure, performing CPR and AED, standard first aid, and learning about the human body. Diseases, disorders and medical terminology related to each system will be studied. Medical ethics, OSHA safety practices, universal precautions, teamwork, communications, employability skills, and health maintenance practices will be taught throughout the course. Foundations. The Health Occupations course is one year, two hour block, career and technical education course designed to provide students with a strong academic knowledge base in health science. The anatomy and physiology component of the program will cover the systems of the human body. Diseases, disorders and medical terminology related to each system will be studied. Medical ethics, OSHA safety practices, universal precautions, teamwork, communications, employability skills, and health maintenance practices will be taught throughout the course. Students will be introduced to a number of health care careers and will be exposed to specialized equipment used in the healthcare field. They will learn many basic transferable skills required by a variety of health science occupations. Class time will be divided between classroom instruction, note taking, class discussion, viewing videos, computer based instruction and assessments, written assignments and tests. Classroom laboratories are also incorporated in order to give students the opportunity to practice and use information received in classroom instruction. Students will be certified in Professional Rescuer CPR and First Aid as part of the curriculum. Students who are enrolled in this class are encouraged to become members of HOSA (Health Occupations Students of America).
HOSPITALITY AND CULINARY ARTS

Hospitality and Culinary Arts: Exploration
1.0 credit Course 13375
Grades 10-12
Course is approved for Visual, Performing, and Applied Arts or Applied Mathematics.
Prerequisite: None.
Thinking about becoming a chef? This class is for students considering a food service career or who are interested in building culinary skill. Using a program called ProStart, designed with support from the National Restaurant Association (NRA), students learn to research and create their own menu items, prepare, package, cost, and market various food projects for sale. Labs will include preparing entrees, soup, butchery, breakfast foods, cookies, breads, and a variety of other bakery and pastry items. Students will also learn industry safety and sanitation, in addition to restaurant business. Course content assists students in obtaining the NRA certificate and ServSafe® license. This class qualifies for Hospitality and Culinary Arts Co-op credit.

Restaurant Operations: Hospitality and Culinary Arts
2.0 credits Course 13380 and 13382
Grades 11-12
Course is approved for Visual, Performing, and Applied Arts, Applied Mathematics or the 2nd year Foreign Language credit.
Prerequisite: None.
Come join us and be part of the team in the Rock Cafe!
Are you interested in becoming a chef? Considering a career as a hotel or restaurant manager? Come join one of the top hospitality training programs in the country! Gain hands-on experience working in the Salem Rock Café, the Park restaurant. Students are trained on the job for careers in the restaurant, food service, and hospitality business. Using the nationally recognized Pro-Start Certification Curriculum, students gain hands-on experience in the areas of dining room service, short-order cooking and food production from casual to high-end cuisine! Students are trained in a commercial kitchen, using the same equipment found in the workplace.

Culinary skills learned include knife skills, soups and hot food productions (vegetable, starch, entrée), butchery, cold food production, bakery and pastries. In addition, students gain experience in menu design and pricing, scheduling and menu forecasting, writing health conscious menus and following industry trends, budgeting, and register use.

Students in this class qualify to test for the industry standard ServSafe Manager’s license, as well as the Pro-Start Certificate of Achievement.

This course can be used to meet the state requirement for:
- Applied and Performing Arts
- Senior Applied Mathematics Course
- Foreign Language Credit Replacement

Students who complete this course also qualify for scholarships and college credits from colleges nation-wide, including but not limited to:
The CIA
Johnson and Wales
Baker College
Schoolcraft College – 6 credits
Washtenaw Community College
Henry Ford Community College

This class qualifies for the Co-op Credit.

Advanced Restaurant Operations: Hospitality and Culinary Arts
2.0 credits Course 13383
Grades 11-12
Course is approved for Visual, Performing, and Applied Arts, Applied Mathematics or the 2nd year Foreign Language credit.
Prerequisite: Restaurant Operations: Hospitality and Culinary Arts with a C or better.
For students who have completed our Culinary / Restaurant Operations Curriculum, you are invited to expand your Culinary / Managerial skills even further. In program designed to challenge our advanced students, and personalized to meet each students’ unique skill sets and interests – you will gain tremendous experience in leadership, advanced training, and countless other areas. Additional benefits to this course include large-scale scholarships and college connections. Welcome Back to the Team!

Students in this class qualify to test for the industry standard ServSafe Manager’s license, as well as the Pro-Start Certificate of Achievement. ServeSafe Allergen is also made available.

Students who complete this course also qualify for scholarships and college credits from colleges nation-wide, including but not limited to:
The CIA
Johnson and Wales
Baker College
Schoolcraft College – 6 credits
Washtenaw Community College
Henry Ford Community College

This class qualifies for the Co-op Credit.
Sample Marketing Student Schedule

<table>
<thead>
<tr>
<th>First Hour</th>
<th>Grade 9</th>
<th>Grade 10</th>
<th>Grade 11</th>
<th>Grade 12</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>English 9--World Literature</td>
<td>American Lit/Writing</td>
<td>One semester writing course AND one semester literature course</td>
<td>1 semester writing course and 1 semester literature course OR 1 year-long course</td>
</tr>
<tr>
<td>Second Hour</td>
<td>Algebra 1 or Algebra 1 Advanced</td>
<td>Geometry or Honors Geometry</td>
<td>Algebra 2 or Algebra 2 with Trig or Honors Algebra 2</td>
<td>*Microsoft Excel (.5) *Finance and Investment (.5)</td>
</tr>
<tr>
<td></td>
<td>World History or AP World History</td>
<td>US History or AP US History</td>
<td>PES or AP Macro &amp; AP Micro &amp; AP Gov</td>
<td>Business Administration and Management</td>
</tr>
<tr>
<td>Fourth Hour</td>
<td>Geophysical Science</td>
<td>Biology or Honors Biology</td>
<td>Chemistry, ChemCom, Physics, or AP Physics</td>
<td>Personal Business Law (.5), International Business (.5)</td>
</tr>
<tr>
<td>Fifth Hour</td>
<td>Health PE</td>
<td>Exploring Business Computer Applications</td>
<td>**Web Design &amp; Internet and **Photoshop</td>
<td>Graphics I</td>
</tr>
<tr>
<td>Sixth Hour</td>
<td>Language Other than English</td>
<td>Marketing I</td>
<td>Entrepreneurship</td>
<td>Advanced Marketing</td>
</tr>
</tbody>
</table>

*These semester courses count as .5 math credit if taken as a senior.
**These courses count as visual and performing arts.
***This course counts as visual and performing arts or as a math credit if taken as a senior.

Entrepreneurship

Course 03110
1.0 credit
Grades 11-12
Prerequisite: None.
Entrepreneurship is a course designed to familiarize students with the characteristics of entrepreneurs and to make them aware that owning and operating their own business is a realistic career option. Students will be exposed to small business operations, marketing, human resources, accounting, business law and other areas related to business ownership. Students will choose a business of their own to “open” and by the end of the course will have created a complete professional business plan.

Marketing

Course 03150
1.0 credit
Grades 9-12.
Qualifies for Applied Math or Applied Art credit.
Prerequisite: None.
This course incorporates the National Career Clusters for Marketing Sales and Service. The curriculum will include the functions of marketing, technology, selling, economics, customer relations, promotion, distribution, marketing information management, management, finance, entrepreneurship, and career development. Marketing is grounded in academics and provides the knowledge to compete in a global economy.

Advanced Marketing

Course 03030
2.0 credits (2 hour block)
Grades 10-12.
Qualifies for Applied Math or Applied Art credit.
Prerequisite: Marketing and instructor’s approval. Forms need to be completed and signed by the counselor and the instructor. Advanced Marketing teaches students entrepreneurial skills by building on the curriculum from Marketing I. Students will be part of a retail environment in which they will gain experience in selling, buying techniques, display design, advertising, and many other components necessary to operate a business. The students will also have the opportunity to learn finance and banking through our partnership with Community Financial Credit Union. The course meets for two class periods, which includes an hour of class and an hour of lab time operating the school store.
Marketing Management  
Course 03160  
2.0 credits (2 hour block)  
Grades 11-12.  
Qualifies for Applied Math or Applied Art credit.  
Prerequisite: Advanced Marketing and instructor’s approval.  
Marketing Management prepares students that have chosen  
a career pathway in the field of Marketing Sales and Service and Entrepreneurship. Students are part of a comprehensive learning program that  
integrates instruction from Marketing I and Advanced Marketing. The student will manage the school store and be  
accountable for all components of the business. Also, each student will learn the traits and tools to become a successful entrepreneur. Marketing  
Management gives students the opportunity to participate on an advisory board for Career Technical Education and Community Financial Credit  
Union. Marketing Management is a course that will give students the skills necessary to be career ready or college bound.  

**TECHNOLOGY APPLICATION**

**Technology Today**  
Course 13220  
0.5 credit  
Grades 9-12.  
Prerequisite: None.  
All future jobs will require an understanding of technology. Explore current and future technologies in the fields of Construction,  
Communication, Manufacturing and Transportation. You will experiment in the areas of architecture, electronics, automotive technology,  
computers and engineering drawing. Through these activities, you will learn which of these areas might interest you for future course selections  
and career choices.  

**Electronics I**  
Course 13110  
0.5 credit  
Grades 9-12.  
Course approved for Applied Mathematics.  
Prerequisite: None.  
Electronics I is a course dealing with basic electronic components such as resistors, inductors and transistors as well as the operation of all  
major electronic measurement and test equipment. Electronic construction techniques and kit building will be emphasized. Students  
will be designing and drawing electrical schematics.  

**Electronics II**  
Course 13120  
0.5 credit  
Grades 9-12. Offered Semester 2.  
Course approved for Applied Mathematics.  
Prerequisite: Electronics I  
Electronics II offers instruction in the operating principles of semiconductor components commonly used in electronic equipment such as stereos, computers, VCRs and radio controlled model cars. Students will work with solid-state amplifiers, oscillators, operational amplifiers and integrated circuits. Advanced electronics testing  
techniques will be covered throughout the course.  

**Automation & Robotics**  
Course 13040  
2.0 credits (2 hour block)  
Grades 10-12.  
Prerequisite: Electronics I and II or approval of instructor.  
Course approved for Applied Mathematics. This course meets the  
20-hour online requirement.  
This course will introduce students to basic automation/robotics systems. Topics to be covered include mechanical, hydraulic,  
pneumatic and electrical control systems. This course deals extensively with problem solving and troubleshooting hydraulic systems, air logic circuits, relay ladder diagrams, programmable controllers and motor controls as applied to manufacturing  
technology.
## ENGLISH LANGUAGE ARTS

**Required: 4.0 credits**

<table>
<thead>
<tr>
<th>Grade</th>
<th>Writing / Composition</th>
<th>Literature / Reading</th>
<th>Electives</th>
</tr>
</thead>
<tbody>
<tr>
<td>9th Grade</td>
<td>English 9 - World Literature</td>
<td></td>
<td>Drama &amp; Speech*</td>
</tr>
<tr>
<td>10th Grade</td>
<td>American Literature / Writing</td>
<td></td>
<td>Drama &amp; Speech*</td>
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<td></td>
<td></td>
<td>Drama II</td>
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<td>Drama III</td>
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<td></td>
<td>Fundamentals of Radio</td>
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<td></td>
<td>Interpersonal Communication</td>
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<td></td>
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<td>Public Speaking*</td>
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<tr>
<td>11th Grade</td>
<td>Advanced Composition A</td>
<td>Advanced Science Fiction</td>
<td>Creative Writing*</td>
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<tr>
<td></td>
<td>English Structure and Usage</td>
<td>Comic Books and Graphic Novels</td>
<td>Drama &amp; Speech*</td>
</tr>
<tr>
<td></td>
<td>Honors Debate*</td>
<td>Early British Literature</td>
<td>Drama II</td>
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<tr>
<td></td>
<td>Intermediate Composition</td>
<td>Eastern Thought &amp; Literature</td>
<td>Drama III</td>
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<td></td>
<td>Introduction to Journalism</td>
<td>Elements of Fiction</td>
<td>Fundamentals of Radio</td>
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<tr>
<td></td>
<td>Honors Composition Seminar</td>
<td>Late British Literature</td>
<td>Interpersonal Communication</td>
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<td></td>
<td>Multicultural Literature</td>
<td>Public Speaking*</td>
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<td>Poetry Seminar</td>
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<td></td>
<td></td>
<td>Science Fiction</td>
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<td>Honors Shakespeare</td>
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<td></td>
<td>Survey of Humanities</td>
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<td>Studies in World Drama I</td>
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<td></td>
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<td></td>
<td>Honors Modern Literature &amp; The Arts*</td>
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<td>IB Language &amp; Literature HL</td>
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<tr>
<td></td>
<td>Reading/Writing Workshop 11/12* (by referral only)</td>
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<tr>
<td>12th Grade</td>
<td>Advanced Composition A</td>
<td>Advanced Science Fiction</td>
<td>Drama II</td>
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<td>Advanced Journalism</td>
<td>Comic Books and Graphic Novels</td>
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</table>

- All students will take 1.0 credit (two semesters) of English all four years of high school
- Students must satisfy the 0.5 credit communications requirement; it may be taken as part of the 4.0 English credits or as an elective. The * in the chart below denotes courses that satisfy communications requirement.
NCAA requires that college student-athletes have 4 full credits of English in high school - make your selections carefully because not all courses listed in English Language Arts qualify for NCAA English credit. See the course descriptions and your counselor for guidance.

There are courses in English Language Arts that fulfill the APPLIED ARTS graduation requirement - see the course descriptions for this detail.

**World Literature/Writing**

1.0 credit  
Course 04200  
A required core course for Grade 9.

Students read a variety of literature from around the world including *The Odyssey, Romeo and Juliet,* and *Things Fall Apart.* Writing skills are addressed through essays, research assignments, informal writing activities, and selected grammar units. Speaking and listening skill development will be incorporated through projects that require group work and presentations.

**American Literature/Writing**

1.0 credit  
Course 04100  
A required core course for Grade 10.

This course engages students in thoughtful conversations about ideas and concepts that relate to American culture as reflected in literature throughout the ages. They explore significant themes through a variety of forms: poetry, essay, short story, novel, non-fiction, visual media and more. Writing skill development is integrated into the content so that students have the ability to write in a variety of ways. Speaking and listening skill development will also be incorporated through group projects and presentations.
YEARN-LONG COURSES

AP English Language & Composition
1.0 credit, 1 Honor Point  
Course 04065
Grade 11-12
Meets graduation requirement for speech.
Recommend: skills in literary analysis and analytical writing. The focus of this college-level class is to have students read and analyze a wide range of nonfiction prose in order to understand rhetoric and how language is used to communicate ideas, tone, and an author's or speaker's purpose. This class focuses on close reading of multiple texts along with frequent writing that is both timed and untimed. Through our study of written, spoken, and visual texts, students will develop and strengthen their own writing and analytical skills. Course content is based upon the suggested curriculum of the College Board for the AP English Language test. Students must exercise intellectual, emotional and social maturity in dealing with challenging and provocative material. Note: If you do not take Advanced Placement English Language, the courses that can help prepare you for the exam are Debate, Early & Late British Lit, Adv Comp A, and Modern Lit & the Arts.

AP English Literature & Composition
1.0 credit, 1 Honor Point  
Course 04060
Grade 11-12
Meets graduation requirement for speech.
Recommend: skills in literary analysis and analytical writing. Students will be expected to develop college level reading and writing skills. In this course, students will engage in the careful reading of major literary works common in college courses. Writing assignments will focus on the critical analysis of literature and the use of literary technique. Writing will be mostly analytical and include essays mostly in exposition and argument with some other writing forms. Course content is based upon the suggested curriculum of the College Board for the AP Literature test. Students must exercise intellectual, emotional and social maturity in dealing with challenging and provocative material. Note: If you do not take Advanced Placement English Literature, the courses that can help prepare you for the exam are Early & Late British Lit, Shakespeare, Adv Comp A, and Modern Lit & the Arts.

Honors Humanities
1.0 credit  
Course 04250
Grades 11-12
Meets graduation requirements for speech. Qualifies for Visual, Performing, and Applied Arts graduation requirement.
This is a college preparatory, interdisciplinary course focusing on the literature, religion, philosophy, theater, art, music, dance, and history of Western civilization from prehistory to the present. What is good? What is right? What is beautiful? Student-philosophers explore these and other questions in discussion seminars with works such as Plato's Republic, Dante's Inferno, Bach's music, and the paintings of Renaissance masters. In large group lectures, expert guest speakers challenge students to make connections across genres and cultures. College-level reading and exams are combined with experiential learning through role-play, fine and performing arts activities, creative research projects, and field trips. In order to experience the arts first-hand, students are asked to attend outside cultural events. This course was recognized as a National Center of Excellence by the National Council of Teachers of English and serves as a model humanities program across the nation.

Honors Modern Literature & The Arts
1.0 credit  
Course 04120
Grade 11-12
Meets graduation requirement for speech.
This class is a college preparatory humanities course focusing on modern and contemporary classics in literature and the arts. The focus is on in-depth study of literature, film, visual arts, and music to help students understand particular questions and themes of concern to the modern world. Assignments include a rigorous amount of reading and writing, but will also include many hands on experiences to better understand the process and intentions of the artists under study. In order to experience the arts first hand, students are encouraged to attend outside events. Students will be asked to think deeply about connections to their own lives, and to better understand the world around them. Understanding the methods and intentions of great artists and thinkers is excellent preparation for college work in any area. Students must exercise intellectual, emotional and social maturity in dealing with challenging and provocative material.

WRITING / COMPOSITION

Advanced Composition
0.5 credit  
Course 04010
Grade 11-12
This is an advanced level writing course designed to prepare students for college level or advanced high school writing. Students will learn to compose numerous impromptu and polished analytical essays at the college level. Essays will include narratives, character analyses, expository essays, comparison-contrast, college entry or scholarship essays. Students will engage in peer evaluation activities and revise their work extensively. High level thinking skills and the ability to work with complex text are required. Students are expected to already have mastered the writing process. The abilities to peer edit and self-diagnose errors are required.

Creative Writing
0.5 credit  
Course 04150
Grade 11-12
Qualifies for Visual, Performing, and Applied Arts graduation requirement.
Students will express themselves imaginatively through a variety of prose and poetic genre. Creative reading and writing techniques will be required as sources of ideas and as models for technique. Students will be expected to share their own work as well as to critique other students' works. The student must have a good to excellent command of the English language as well as strong motivation to write creatively. Students should be prepared to write, rewrite and rewrite.
Honors Debate
0.5 credit  Course 04160
Grade 11-12, or permission of instructor
Meets graduation requirement for speech.
Debate develops skills in critical thinking “on your feet,” topic selection,
analysis, research, logic, case construction, refutation and the
successful presentation of persuasive information. The course activities
center on classroom debates on current issues which include extensive
reading and writing. This is an excellent class for college-bound students
regardless of their field of study.
Note: While prior public speaking experience is not required for this
class, it is very helpful. We strongly recommend Public Speaking before
taking Debate if the student has had little instruction or experience in
public speaking.

English Structure and Usage
0.5 credit  Course 04220
Grade 10-12
This intermediate-level course is designed to teach students how to use
the English language accurately and effectively. Course content focuses
on technical mastery: grammar, punctuation, capitalization, correct word
usage, sentence structure, diction, etc. To demonstrate mastery,
students are required to write, edit, and proofread three full-length
essays. This course is excellent preparation for standardized tests, such
as the ACT and SAT.

Honors Composition & Writing Tutor
0.5 credit  Course 04030
Grades 11-12
Students may re-enroll for additional 0.5 for Non-English credit.
Prerequisite: Application, teacher referral, and permission of instructor.
This course is for our most advanced students who are screened
through an application process. Typically, students who elect this
course are exceptional writers, are interested in improving current skills
and may be pursuing a career in writing or teaching. Additionally, these
students have a strong desire to communicate successfully and assist
others. Prior to the class, students are expected to have mastered
essay writing, experimented with expressive/creative writing, and
achieved high grades in all English classes. In this course, students will
receive instruction in advanced and professional writing and develop
portfolios of their major and minor pieces of writing. Students also staff
our Writing Center after receiving effective training, including peer
mediation, dialogue techniques, and mentoring. The P-CEP Honors
Composition/ Writing Center program was honored with Michigan’s
Excellence Award, published as one of “Michigan’s Best,” and has
served as a model for other school districts.
Applications are available all year and may be found in the Writing
Center

Intermediate Composition
0.5 credit  Course 04260
Grade 11-12
This is an intermediate level writing course designed to prepare
students for college level or advanced high school writing. The students
will explore the effective and precise use of essay organization,
argumentative, research, narrative style, mechanics, and vocabulary
through a variety of impromptu and formal essays. The students will
write, revise, and edit at least four formal essays, resulting in a final
portfolio.

Interpersonal Communication
0.5 credit  Course 04270
Grades 11-12
Does not satisfy the graduation requirement for speech.
This course examines the communication process by studying
self-awareness, verbal communication, nonverbal communication,
listening and building and maintaining relationships. Emphasis will be
placed on identifying and reinforcing existing personal communication
skills as well as identifying and improving personal communication
weaknesses. Students are expected to participate ACTIVELY in class
exercises, to role-play, to discuss and present.

Public Speaking
0.5 credit  Course 04330
Grades 10-12
Meets graduation requirement for speech.
Public speaking is a course designed for all students, whether or not
they have had previous public speaking experience or instruction. The
course will emphasize oral performance through a variety of speeches.
The student will gain valuable experience in learning to organize,
prepare, deliver, listen to and evaluate speeches. The student will also
gain poise and confidence in the process.
Note: Effective management of speech anxiety will be taught in the
class; however, students who think they may need more preparation for
public speaking to overcome anxiety are advised to consider taking
Interpersonal Communication before taking Public Speaking.
Introduction to Journalism
0.5 credit
Course 04280
Grade 11-12
This course introduces students to the journalistic style of writing, editing and research, providing an overview of print and broadcast media. Students will learn to analyze and understand the effects of their writing on an audience and the role that journalism plays in society. Students will learn how to write news stories, opinion pieces, features and sports stories. In addition, they will study press law and how it relates to the First Amendment. Students who attain an appropriate skill level may apply for Advanced Journalism, the class that produces the P-CEP school newspaper, The Perspective, or they may apply for the Professional Publications class, which produces the P-CEP yearbook. Both applications are available in December for the following school year.

Advanced Journalism (Newspaper Staff)
(Sem 1, 0.5 Elective Credit) Course 04290
(Sem 2, 0.5 English Credit) Course 04292
NOT NCAA APPROVED
Grade 11-12
Meets the 20-hour online requirement. In this course, students will use their journalistic writing, skills, knowledge, and understanding of legal and ethical issues to produce the school newspaper, The Perspective. Students will engage in all aspects of print production. Within this authentic newspaper program, students are expected to demonstrate good interpersonal skills when working with others, to work under pressure and scrutiny, and to work beyond the school day to meet deadlines. Note: This course may or may not be accepted as English credit by some colleges and universities. Check with the college or university or your counselor.

Professional Publications (Yearbook Staff)
(Sem 1, 0.5 Elective Credit) Course 04055
(Sem 2, 0.5 English Credit) Course 04057
1.0 credit total
NOT NCAA APPROVED
Grade 11-12
Meets the 20-hour online requirement. Qualifies for Visual, Performing, and Applied Arts graduation requirement. Both course numbers are required to take this year long course. The class produces the P-CEP yearbook. Students practice and polish writing, editing, design, photography, management, computer, research, and teamwork skills as they learn the production steps necessary to publish, market and distribute a 500-page book, while remaining within budget. The class often requires after school work when publishing deadlines dictate. Note: This course may or may not be accepted as English credit by some colleges and universities.

Drama and Speech
0.5 credit
Course 04170
Grades 9-12 Meets graduation requirement for speech. Qualifies for Visual, Performing, and Applied Arts graduation requirement. This course is for any student who has an interest in or curiosity about theater arts, and the willingness to develop this interest into a skill. Students will learn pantomime, improvisation, theater games and vocal training to ready themselves for scene performances as well as develop public speaking skills. Written requirements include play reviews and character analysis.
LITERATURE / READING

Advanced Science Fiction
0.5 credit Course 04070
Grade 11-12
Note: Students may sign up for either Science Fiction or Advanced Science Fiction—not both.
This course offers motivated students the opportunity to read complex science fiction narrative that challenges the reader to understand social and political ideas with great depth. The course involves a considerable amount of reading, both formal and informal writing, and speaking. The course is designed to focus on meeting Common Core Standards while exploring a wide variety of topics including genetic engineering, dystopian futures and Multiverse Theory.

Comic Books & Graphic Novels
0.5 English and 0.5 art credit (1.0 credit total) Course 04145
Grade 11-12
Qualifies for VAPAA graduation requirement.
This course offers an introduction to analyzing popular culture through the graphic novel. Together, we will explore the ways meanings emerge in several celebrated texts of the graphic novel and comics genre, as well as some emerging classics. We will interrogate the relationships between the concepts “graphic novel” or “comic book” and “popular culture,” with each of us bringing our lived experiences to our readings and discussions. The course involves a considerable amount of reading, both formal and informal writing, speaking, and many creative projects. Each student will be required to create his or her own original graphic novel to be published at the end of the course. The course is designed to focus on improving reading comprehension and literary analysis while exploring a wide variety of topics to learn how graphic storytellers use and manipulate historical and contemporary social issues as building blocks for their art.

Early British Literature (450-1660)
0.5 credit Course 04130
Grade 11-12
This course will cover British literature prior to 1660. Historical material will accompany the literature to frame the context for the course. Contents will include Anglo-Saxon literature, including Beowulf; The Canterbury Tales; Arthurian literature; and works of Renaissance literature, including Shakespeare. Focus will be placed on developing strategies for reading these complex and challenging texts. Themes explored include kingship, honor, loyalty, gender roles in society, flaws of human nature, desire for power, and the impact of the supernatural. This course will also investigate contemporary usage of these stories and course themes, particularly through modern film adaptations. Students will respond to the literature through a variety of essays and projects.

Eastern Thought & Literature
0.5 credit Course 04395
Grades 11-12. NOT NCAA APPROVED
In this course, students will increase their understanding of non-Western thoughts and ideas in relationship to Eastern philosophy. Students will study Zen, Buddhism, and Taoism with some comparisons to Judeo-Christian and Islamic beliefs. As part of their study, students will also read a number of American authors, such as Salinger, Emerson, and others, whose work reflects the influence of these religions and philosophies on American society. Be advised that the readings are plentiful and of a difficult nature. In addition to the in-depth discussions that will increase students’ understanding of the nature of consciousness, students will write reflectively in journals and in essays about course concepts. An established proficiency in writing is necessary to do this work. Another important part of the course is experiential learning, which may include both individual and/or cooperative presentations.

Late British Literature (1660-Present)
0.5 credit Course 04140
Grade 11-12
This course will cover British literature from 1660 to the Modern era, emphasizing its great influence on English-speaking cultures. Historical readings will provide the context for the study of this period’s significant literature. Instructions and assignments will include how to read complex literature, reading literature aloud, connecting literature to personal experiences in journals, and discussing and writing about common themes that span this period, such as Social Status and Class Division, The Significance of Parentage and Ancestry, The Emerging Importance of Women, The Contrast between Urban and Rural Lifestyles, and The Effects of the two World Wars in shaping Modern Society and Character. Authors will include Milton, Swift, Blake, Wordsworth, Byron, Keats, Percy and Mary Shelley, Tennyson, Robert and Elizabeth Browning, Dickens, Hardy, Thomas, Eliot, Woolf, and Shaw. Students do not have to take Early British Literature to register.
Multicultural Literature  
0.5 credit  
Course 04125  
Grades 11-12  
This is a semester course in which students read a variety of text that includes the novel, short story, poetry, non-fiction, essays, and view multimedia. These activities will help students understand the issues connected with being a 21st century American living in a multicultural society. Students will encounter many different “voices” as they consider each individual’s unique American experience. In addition to reading a variety of text, students will write reading logs and essays, as well as participate in thoughtful discussions. Students must exercise intellectual, emotional and social maturity in dealing with challenging and provocative material.

Poetry Seminar  
0.5 credit  
Course 04320  
Grade 11-12  
This course is designed for the student with an interest and appreciation for poetry. Students will be required to write poetry explications and to compose original poems. A variety of poetic techniques will be studied and students will learn how to incorporate them into their own poems. Students will also be given the opportunity to present their poetry to an audience of their peers, both in class and in a theater setting. It is recommended that students electing this course have some background in poetry—either from writing original poems or from the study of poetry in a previous English course.

Science Fiction  
0.5 credit  
Course 04360  
Grade 11-12  
Note: Students may sign up for either Science Fiction or Advanced Science Fiction—not both.

This course is a survey of science fiction literature drawing from themes like the exploration of life in other worlds, time travel, the conflict between men and machines, and the possible changes of the world as we know it. This course explores the emergence of science fiction historically with attention to cultural and historical issues that have shaped its development. In this course, students will practice English skills as they learn to speak, read, analyze, and write about science fiction while they make outside textual and “real-world” connections.

Honors Shakespeare Seminar  
0.5 credit  
Course 04370  
Grade 11-12  
This course is for students who wish to study selected works of the foremost dramatic writer in the English language, William Shakespeare. Students read and discuss examples of Shakespeare’s comedies, tragedies and histories as well as his sonnets. Students may be expected to dramatize some scenes from the plays. No acting experience is necessary. Students will study the following topics in order to gain a better appreciation of his works: Elizabethan England, Shakespeare’s theater, the history of the theater, the sonnet form and Shakespeare criticism. Course work will be supplemented whenever possible by field trips to see live stage productions of Shakespeare’s plays and films.

Elements of Fiction  
0.5 credit  
Course 04380  
Grade 11-12  
Students will read a variety of literature looking through the lens of how a story is developed. Through class discussions, cooperative work, written assignments and presentations, students will explore plot structure, conflict, point of view, character, setting, tone/mood/voice, situational irony, theme, symbolism, and literary analysis. Students will be tested on their ability to interpret recurrent themes found in all literature.

Studies in World Drama I Ancients to Renaissance  
0.5 credit  
Course 04180  
Grades 11-12  
Prerequisite: Drama & Speech with a “B” or better or permission of instructor.

This course is designed for serious theater students who wish to challenge their current performance skills and prepare themselves for further work in university and/or commercial theater. Students will study classic plays and performance styles of theater from Greek and Roman times, the Middle ages, Early Asian Period and the Renaissance (Italian, French, Spanish, and English). Students will understand the historical and cultural perspective from each of these periods, as well as continue to develop skills in voice movement, character interpretation, and script analysis. Extensive study of Oedipus Rex will be part of the course. The course content is aligned to the National Theater Standards.

Studies in World Drama II Restoration to Modern  
0.5 credit  
Course 04185  
Grades 11-12  
Prerequisite: Drama & Speech with a “B” or better or permission of instructor.

This course is designed for serious theater students who want more in-depth knowledge of theater history. This course covers Restoration Theater, 18th and 19th Century Theater, and Modern Theater. Students will understand the historical and cultural perspective of these periods, as well as continue to develop skills in performance and script and analysis. Extensive study of The School for Scandal and Death of a Salesman will be part of the course. The course content is aligned to the National Theater Standards. Students do not have to take the first semester of Studies in World Drama prior to taking this course.

Survey of Humanities  
0.5 credit  
Course 04300  
Grades 11-12  
In this class students will explore the lives, times and contributions of some of the great people in Western Civilization. This course is an introduction to literature, art, music, architecture and philosophy and the great people in Western Civilization. Emphasis will be on class discussion and creative written responses to the ideas presented. Some of the units include Early Man, Egypt, Greece, Rome, Judaism, Christianity, Islam, Middle Ages, Renaissance, modern art and architecture. There will be a field trip to a major local museum to allow students to observe the genuine artifacts throughout the semester and some hands on learning.
LITERACY SUPPORT

All courses indicated in this section are designed to improve reading, writing, and language skills. These courses may or may not be accepted as English credit by some colleges and universities or NCAA athletic eligibility. Check with the university or your counselor. These courses are intervention courses and students must be referred by a teacher and/or approved by the Assistant Principal for English Language Arts.

Reading/Writing Workshop 9
1.0 credit  
NOT NCAA APPROVED
Grade 9
Prerequisite: Students are screened for this course based upon standardized test scores and academic achievement.
This literacy support course is for 9th graders and is designed to improve reading and writing skills through vocabulary building and explicit instruction of reading strategies, grammar, and essay structure. Students will also receive additional support with assignments and texts they are assigned in English 9. This course is taken in tandem with English 9 and is an elective credit.

Reading/Writing Workshop 10
1.0 credit  
NOT NCAA APPROVED
Grade 10
Prerequisite: Referral by English 9/World Literature teacher based upon low standardized test scores and low academic achievement.
This class is devoted to building complex literacy skills so that students are prepared for the rigor and challenges of American Literature and Writing. Students will learn specific reading strategies to increase their reading comprehension. To help students become active, motivated readers, a significant amount of choice reading as well as structured reading will be provided. Students will strengthen their vocabulary, grammar and mechanics, research and analytical writing skills, and verbal communication skills. Students will be required to take American Literature & Writing in the junior year.

Reading/Writing Workshop – 11/12
1.0 credit  
NOT NCAA APPROVED
Grade 11-12
Meets graduation requirement for speech.
Prerequisite: Teacher recommendation based on assessment that indicates student is not reading or writing at grade level. This course may NOT be taken by students who have completed either Reading/Writing Workshop 9 or Reading/Writing Workshop 10, unless approved by Assistant Principal for English Language Arts.
This course is for students who need to improve their reading comprehension, writing, and communication skills. To make reading and writing relevant for those students who are getting ready to enter the adult workforce, teachers will include some reading about careers, as well as practical reading about issues that pertain to life as an adult. The goal is to motivate students to enjoy reading again and show them how important it is to be a good reader for both pleasure and purpose. Writing activities will include essay writing for post-secondary schools, along with practical writing typically needed in daily life.

ENGLISH ELECTIVES

Drama II
0.5 credit (non-English credit)  
Course 04208
NOT NCAA APPROVED
Grade 10-12
Qualifies for Visual, Performing, and Applied Arts graduation requirement.
Acting II is a one-semester intermediate level elective course in which students will develop voice, movement, and acting techniques. Students will analyze, critique, and perform scenes, monologues, and plays from a variety of genres.

Drama III
1.0 credit (non-English credit)  
Course 04210
NOT NCAA APPROVED
Grade 10-12
Qualifies for Visual, Performing, and Applied Arts graduation requirement.
Prerequisite: Studies in any one of the following courses with a passing grade of 82% (B): World Drama, Drama II, or Drama/Speech. See instructor if you have any questions.
This advanced course is for serious actors with a desire to learn more about Theatre Arts and acting, or to prepare for further work at the university. Students prepare monologues, scenes and one-act plays, working with various styles of performance from Greeks to contemporary. Emphasis is on voice production, speech, movement, interpretation, and script and character analysis. This is a performance oriented class. One major production, in May or June, requires after school rehearsals and one evening performance. Students are required to attend 4 productions of The Park Players. Content is aligned to the National Theater Standards. Teacher approval required, please see Ms. McNutt or Ms. Quesada for details.

Fundamentals of Radio Broadcasting
0.5 credit (non-English credit)  
Course 04520
Grade 10-12
Qualifies for Visual, Performing, and Applied Arts graduation requirement.
Students learn the basics of broadcast history, regulations, and equipment. The class provides an introduction to program development, news writing, sales, and audio production. There are significant media writing and broadcast performance opportunities. Some of the students’ work will be used on WSDP 88.1 The Park, the student non-commercial radio station at P-CEP. Students will improve their reading, writing, speaking, listening, and thinking skills.

IB Language & Literature HL
First Year 1.0 credit  
Course 04001
Second Year 1.0 credit  
Course 04002
(1.0 Honor Point)
This is a two-year course that focuses on language study in the junior year, and literature study in the senior year. Students should expect a challenging curriculum; but also, one that puts personal interpretation at the heart of all learning. Students will master critical thinking skills and apply them to fiction and nonfiction from all around the world. Course features frequent presentations by the students followed by critiques by the teacher, the implementation of theory of knowledge and metacognition as a part of the analysis of text and language.
## ENGLISH LEARNERS

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<thead>
<tr>
<th>COURSE TITLE</th>
<th>CREDIT</th>
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<tr>
<td><strong>ENGLISH</strong></td>
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<tr>
<td>English for ELs 1a Language Development</td>
<td>1.0 (elective)</td>
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<tr>
<td>English for ELs 1b Reading &amp; Academic Strategies</td>
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<td>English for ELs 2a Language Development</td>
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<td>English for ELs 4 Language Development</td>
<td>1.0 (English)</td>
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<tr>
<td>EL Content and Language Support</td>
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<td><strong>SOCIAL STUDIES</strong></td>
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<tr>
<td>World History &amp; Geography</td>
<td>1.0 (Soc. Std.)</td>
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<td>Teacher Proposal</td>
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<tr>
<td>U.S. History &amp; Geography</td>
<td>1.0 (Soc. Std.)</td>
<td>9-12</td>
<td>Teacher Proposal</td>
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<tr>
<td>Political &amp; Economic Systems</td>
<td>1.0 (Soc. Std.)</td>
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<td><strong>SCIENCE</strong></td>
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<tr>
<td>Geophysical Science</td>
<td>1.0 (Science)</td>
<td>9-12</td>
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<td>Biology</td>
<td>1.0 (Science)</td>
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<td>Chemistry</td>
<td>1.0 (Science)</td>
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<td>Chemistry in the Community</td>
<td>1.0 (Science)</td>
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<td><strong>MATHEMATICS</strong></td>
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<tr>
<td>Geometry</td>
<td>1.0 (Math)</td>
<td>9-12</td>
<td>Teacher Proposal</td>
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Four sequential year-long English Learners courses provide specialized instruction and learning opportunities designed for new learners of English who experience difficulty with academic performance related to the process of English language acquisition. The course levels of English proficiency and goals for English learners (ELs) are aligned with the Michigan English Language Proficiency Standards. Students in EL classes will be expected to demonstrate increasing competency in English language skills in the areas of speaking, listening, reading (including comprehension) and writing (including grammatical conventions). EL students will not be placed in general education classes until sufficient competency in English has been demonstrated as indicated by a score of Advanced Proficient on the ELPA.

*English for ELs 1a Language Development Course 05411*

(English for ELs 1 is a two-course block including Language Development and Reading and Academic Skills)

Emphasis is placed on using contemporary speech in a variety of family, school, and social situations. Students will actively participate in classroom activities, use spoken English and non-verbal communication in socially and culturally appropriate ways, use learned vocabulary in oral and written forms, use comprehensible pronunciation and appropriate conversational responses for interpersonal communication, acquire and apply basic English usage by identifying basic parts of speech and basic sentence structures, begin to show ability to construct meaning through written expression at the sentence and early paragraph level.

*English for ELs 1b Reading & Academic Strategies Course 05412*

(English for ELs 1 is a two-course block including Language Development and Reading and Academic Skills)

Students will: increase comprehension of text by building vocabulary and grammatical awareness to develop concepts; identify main ideas and details in literature and informational text, read controlled texts and demonstrate reading strategies; apply reading strategies in social and academic contexts. Students will be introduced to textbook resources, common testing formats, and learning strategies. Students will also have opportunities for extensive, individualized reading practice.
English for ELs 2a Language Development Course 05421
Prerequisite: Demonstrated skill competencies described in English for ELs 1a. (Two-course block including Language Development & Reading and Academic Skills).
This course focuses on: the use of English to interact successfully with peers and adults according to audience, purpose, and setting; grammatical conventions of English usage, particularly identification of all parts of speech and the use of verb tense to construct sentences; and controlled writing activities focusing on paragraph development using organizational strategies, including topic sentences and supporting details. Students will learn to focus on themes and ideas as a basis for writing. They will learn to follow the stages of the writing process, from generating ideas to drafting, revising, proofreading, editing, and publishing.

English for ELs 2b Reading and Academic Strategies Course 05422
Prerequisite: Demonstrated skill competencies described in English for ELs 1b. (Two-course block including Language Development & Reading and Academic Skills).
This course focuses on: reading with developing fluency for multiple purposes including literature and informational text; application of reading strategies to texts with controlled reading levels in a variety of fiction and nonfiction genre; mastery of additional high-frequency vocabulary with increased recognition of vocabulary in academic contexts; and development of listening comprehension, note-taking skills, and self-expression for personal and academic purposes. Students have opportunities for extensive, individualized reading practice.

English for ELs 3a Language Development Course 05431
Prerequisite: Demonstrated skill competencies described in English for ELs 2a. (English for ELs 3 is a two-course block including Language Development and Reading and Academic Skills)
This course focuses on: grammatical conventions such as integrating verb tenses, clauses, passive voice, and indirect speech; contextualized writing tasks moving from the format of the paragraph to the construction of essays using thesis statements, supporting details, and introductory and concluding paragraphs; and further application of organizing principles in a variety of rhetorical forms of writing such as cause and effect, comparison and contrast, problem and solution, written summaries, and personal expression. Students will use the writing process to integrate grammar, vocabulary, and rhetorical objectives in theme-based academic writing.

English for ELs 3b Reading & Academic Strategies Course 05432
Prerequisite: Demonstrated skill competencies described in English for ELs 2b. (English for ELs 3 is a two-course block including Language Development and Reading and Academic Skills). This course focuses on: development of additional reading strategies, applied to both literature and informational text, with emphasis on identifying main ideas and supporting details, separating fact from opinion, outlining, predicting, identifying author’s purpose, describing characters and themes in modified selections of literature, development of vocabulary in theme-based contexts; listening for main ideas and organizing principles in academic lectures; and strategies for active participation in group projects, discussions and individual presentations. Students will also have opportunities for extensive, individualized reading practice.

English for ELs 4 Language Development Course 05441
Prerequisite: Demonstrated skill competencies described in English for ELs 3a & b. (English for ELs 4 supports advanced ELLs in their transition to a concurrent grade level English class. Each student will work at an independent pace to achieve course goals.)
This course focuses on: further development of non-fiction writing in essay format, including advanced grammar for the construction of clear, complex sentences; research and documentation skills for writing reports and summaries; acquisition of general academic vocabulary with reading strategies for comprehension of content-area reading; listening and note-taking skills to understand a variety of academic lectures and media presentations; practice with group discussion and class presentations; and test-taking strategies and practice for MME and TOEFL.

English Learner Study Skills Course 05400
This course is designed for ELs at English Language Proficiency Levels 1 & 2 who lack sufficient academic preparation, subject area vocabulary, and background knowledge needed for full participation in subject area classes, e.g., social studies, science, and math. Students will build background knowledge and will practice learning strategies needed to access general education core curriculum classes.
CONTENT AREA CLASSES FOR ENGLISH LEARNERS

Academic instruction is more accessible to learners of English when the language demands of the subject area lessons are taken into consideration. Prior schooling, background knowledge, and cultural differences can also affect student learning in content area courses. “Sheltered” content courses offered to ELLs are modified to assist students as they develop knowledge in subject areas through the medium of the English language and assistance, when possible, in the student’s native language. The courses parallel the same content information and curricular objectives as courses taught in general education classes, while the instructional delivery, learning materials, tasks and assessments may be modified. Students will receive transcript credit for the general education course; the sheltered designation is not reflected on the student's report card or transcript.

Math Courses for English Learners
(Refer to course descriptions listed for the Math Department.)
   Geometry

Social Studies Courses for English Learners
(Refer to course descriptions listed for the Social Studies Department.)
   World History & Geography
   U.S. History 10 & Geography
   Political & Economic Systems

Science Courses for English Learners
(Refer to course descriptions listed for the Science Department.)
   Geophysical Science
   Biology
   Chemistry
   Chemistry in the Community
# FAMILY AND CONSUMER SCIENCE

**Contemporary Fashion & Design**

- **0.5 credit**
- **Course 07030**
- **Grade 9-12**
- Course qualifies for Visual, Performing, and Applied Arts Credit. May be taken up to four times for credit, with students learning more advanced techniques.
- Designed to introduce you to basic sewing skills as well as the basics of fashion and design careers. Included in this course are garment construction, body structure, style, and color analysis. Learn about natural and man-made textiles, how to read a pattern, and basic clothes construction techniques. Develop skills using a variety of sewing equipment while constructing your own garments. Then, explore fashion designers, models, buyers as well as many, many more careers to be had in the fashion and textile industry. A portfolio will be used to showcase your projects.

**Creative Foods and Nutrition**

- **0.5 credit**
- **Course 07040**
- **Grades 9-12**
- Course qualifies for Visual, Performing, and Applied Arts graduation requirement.
- This class is designed to help you develop skills in food preparation for personal or career development. Topics covered include safety and sanitation, kitchen math, basic cooking skills, and personal nutrition. Topics and labs may include cookies, eggs, fruits, vegetables, soups, homemade pasta, quick breads and cake decorating.

**International Foods & Nutrition**

- **0.5 credit**
- **Course 07045**
- **Grades 9-12**
- Course qualifies for Visual, Performing, and Applied Arts graduation requirement.
- This class is designed to help develop skills in food preparation for personal or career development. All topics and labs will incorporate the foods of various countries. Cultures covered may include African, Russian, Mexican, Middle Eastern, Italian, South American, Greek and Chinese cookery. Topics include safety and sanitation, kitchen math, basic cooking skills and worldwide food customs. Labs may include pretzels, hummus and pita chips, fried rice, quesadillas, vegetarian cooking and various baked products from around the world.

**Human Services Exploration**

- **0.5 credit**
- **Course 07105**
- **Grades 11-12**
- Course qualifies for Visual, Performing, and Applied Arts graduation requirement.
- Prerequisite: Application needed to apply. See your counselor. If you are considering a future career in Human Services (such as teaching, social work, psychology or medical) this class will give you leadership preparation. You will learn about various types of physical or mental challenges and how to work with these populations. Hands-on time will be spent working with these peers.

**Interior Design**

- **0.5 credit**
- **Course 07110**
- **Grades 10-12**
- Course qualifies for Visual, Performing, and Applied Arts graduation requirement.
- A look into the world of interior design. This course will be of interest to anyone that loves designing rooms or hopes to work with interior design in a future profession. This course prepares students for both. Topics of study include elements & principles of design, furniture style and construction, color and schemes, floor plans, lighting, window treatments and creation of product board samples. A Portfolio will be developed for use as employment or college preparation. Interior Design is an excellent addition to Cad/Engineering Drawing, Graphic Arts, Art and other Design Fields.

**Living on Your Own**

- **0.5 credit**
- **Course 07120**
- **Grades 10-12**
- Regardless of your plans after graduation, the skills you acquire in this class will help make the transition easier and will help you be more successful. Students use hands-on and practical projects to explore career pathways, write a resume and interview for a job, and financial literacy. After that first paycheck, where does all the money go? Learn how to develop a budget, pay taxes, and still save for the future! This class will look at the cost of credit, insurance, buying a car, and finding a place to live.

**Textiles and Design**

- **0.5 credit**
- **Course 07140**
- **Grades 9-12**
- Course qualifies for Visual, Performing, and Applied Arts graduation requirement.
- This course is a mini-unit class that will introduce the areas of Family and Consumer Science departments involving needlecraft and textile construction. You will also be introduced to the historical importance of needle crafts such as embroidery, crocheting, knitting, crewel, and quilting will be explored in the needle crafts unit.
HEALTH EDUCATION

Health
0.5 credit  Course 06010
Recommended for Grades 9-10. Graduation Requirement.
Health is a one-semester course with a focus on wellness and preventative health strategies. Topics include: health and wellness, mental health, nutrition, infectious and chronic disease, human sexuality/reproductive health and substance abuse.
Parents have the option to review the human sexuality and reproductive health curriculum by contacting the teacher and/or the Assistant Principal in charge of the Health Department. Parents also have the option of excusing their child from the human sexuality and human reproductive health curriculum.

Health Occupations
2.0 credits (2 hour block)  Course 13510
Grades 11-12
Qualifies as 1.0 science-related elective credit.
Prerequisite: It is recommended that students who enroll in this course have a strong interest and aptitude for science. Eligible students should have earned a C or better in their previous Biology class.
The Health Occupations course is one year, two hour block, career and technical education course designed to provide students with a strong academic knowledge base in health science. The anatomy and physiology component of the program will cover the systems of the human body. Diseases, disorders and medical terminology related to each system will be studied. Medical ethics, OSHA safety practices, universal precautions, teamwork, communications, employability skills, and health maintenance practices will be taught throughout the course. Students will be introduced to a number of health care careers and will be exposed to specialized equipment used in the healthcare field. They will learn many basic transferable skills required by a variety of health science occupations. Class time will be divided between classroom instruction, note taking, class discussion, viewing videos, computer based instruction and assessments, written assignments and tests. Classroom laboratories are also incorporated in order to give students the opportunity to practice and use information received in classroom instruction. Students will be certified in Professional Rescuer CPR and First Aid as part of the curriculum. Students who are enrolled in this class are encouraged to become members of HOSA (Health Occupations Students of America).
This course cannot be taken during the same academic year as Medical Career Foundations.
Students earn one elective credit and one science credit upon successful completion of this course.

Medical Career Foundations
0.5 credit  Course 07520
Grades 9-12
This exploratory course is designed for the student who has an interest in medical health careers. The course introduces medical terminology and explores human body systems and career choices that exist within each system. This is excellent preparation for the medical-health care field and an introduction for the Health Occupations courses. This course should not be taken concurrently with Health Occupations.
Texas Instrument Calculator 84 will get students through all math classes at P-CEP.
Guidelines for Student Placement

Students with “A”, “B” or “C” grades in their current math class will generally be placed into the next course in the sequence. A student with a “D” in the current mathematics class will have difficulty with the next course and is recommended to repeat the course during summer school (no additional credit, but letter grade can be improved). Advanced and Honors classes require an “A” or high “B” grade and teacher recommendation to advance to the next course in the advanced/honors sequence. Support classes require teacher/administrator recommendation.

Pre-Algebra

Prerequisite: Enrolled with ninth grade status and/or teacher/Administrator recommendation.

This one-year course is a bridge that will take you from where you are in your study of mathematics to algebra and geometry. Topics include integers, solving equations, data analysis, geometry, number theory, rational numbers, ratios, proportions, percents, circles, polygons, area, volume, statistics, probability, graphing on a coordinate plane and polynomials.

Note: This course is not NCAA approved.

Algebra 1

Prerequisite: Passing grade in Math 8.

This one-year course will prepare students for the Common Core Course Standards of Algebra One. Topics will include Integers, Equation Solving, Probability and Statistics, Graphing, Linear Functions, Quadratic and Exponential Functions, Polynomials, Factoring, Inequalities, and Systems of Equations/Inequalities. A TI-84+ Graphing Calculator is recommended for use.

Note: You may not receive credit for both this course and Algebra 1 - Advanced.

Algebra 1 Support

Prerequisite: Concurrently enrolled in Algebra 1. Grade of D+ or lower in Pre-Algebra or Math 8 and teacher/Assistant Principal recommendation.

The State of Michigan requires all high school students to complete four years of math, three of which must be Algebra 1, Geometry and Algebra 2. P-CCS and the P-CEP math department recognize the need to get students the extra math assistance for a successful experience in Algebra 1. Students will spend time on reinforcing the lessons from their Algebra 1 class, and in some cases, learn some pre-lesson skills that may help them better understand the concepts taught in Algebra 1. Students may earn their 4th math credit by taking Algebra 1 Support; however, students must still earn math credits in Algebra 1, Geometry and Algebra 2, with a math class taken during their senior year.

Algebra 1 - Advanced

Prerequisite: Grade of “A” in Math 8.

This one-year course will prepare students for the Common Core Course Standards of Algebra One. This course is more rigorous and faster paced than Algebra 1. Topics will include Integers, Equation Solving, Probability and Statistics, Graphing, Linear Functions, Quadratic and Exponential Functions, Polynomials, Factoring, Inequalities, and Systems of Equations/Inequalities. A TI-84+ Graphing Calculator is recommended for use. You will not receive credit for both this course and Algebra 1.

Geometry

Prerequisite: Grade of “B, C, or D” in Algebra 1 or Grade of “C or D” in Advanced Algebra 1.

This one-year course will prepare students using the Common Core Standards of Geometry. Topics will include The Language of Geometry, Reasoning and Proof, 2-Dimensional Polygons, Congruent Figures, Similarity, Trigonometry, Circles, and 3-Dimensional Polygons. A TI-84+ Graphing Calculator is recommended for use, but a Scientific calculator (TI-30X, Canon F-7165, or Casio FX-300MS) is also acceptable. You will not receive credit for both this course and Honors Geometry.

Geometry Support

Prerequisite: Concurrently enrolled in Geometry. Grade of D+ or lower in Algebra 1 and teacher/Administrator recommendation.

The State of Michigan requires all high school students to complete four years of math, three of which must be Algebra 1, Geometry and Algebra 2. P-CCS and the P-CEP math department recognizes the need to get students the extra math assistance for a successful experience in Geometry. Students will spend time on reinforcing the lessons from their Geometry classes, and in some cases, learn some pre-lesson skills that may help them better understand the concepts taught in Geometry. Students may earn their 4th math credit by taking Geometry Support; however, students must still earn math credits in Algebra 1, Geometry and Algebra 2, and take a math class their senior year.

Honors Geometry

Prerequisite: Grade of “A or B” in Advanced Algebra 1 or Grade of “A” in Algebra 1 and teacher/Administrator recommendation.

This one-year course will prepare students for the Common Core Course Standards of Geometry. This course is more rigorous and faster paced than Geometry. Topics will include Reasoning and Proof, Perpendicular and Parallel Lines, Congruent Triangles, Properties of Triangles, Quadrilaterals, Transformations, Similarity, Right Triangles, Trigonometry, Circles, Polygons, Surface Area and Volume. A TI-84+ Graphing Calculator is recommended for use.

Note: You will not receive credit for both this course and Geometry.
Algebra 2
1.0 credit Course 08051
Prerequisite: Grade of “D” in Geometry or grade of “C” in Geometry and a grade lower than a “C” in Algebra 1.
This one-year course will cover the Common Core Course Standards of Algebra 2. Topics will include Equations, Inequalities, Functions, Linear Systems, Factoring, Quadratics, Polynomials, Rational Exponents, Logarithms, Conic Sections, Probability, Statistics, and Trigonometry. A TI-84+ Graphing Calculator is recommended for use. You may not receive credit for both this course and Algebra 2 w/Trigonometry or Honors Algebra 2 w/Trigonometry. Students successfully completing this course may enroll in Statistical Reasoning in Sports and Problem Solving or may enroll in Algebra 3 w/Trigonometry with a teacher recommendation. Students who have completed this course MAY NOT subsequently enroll in Precalculus w/Trigonometry, Honors Precalculus w/Trigonometry, or AP Probability and Statistics.

Algebra 2 Support
1.0 credit Course 08500
Prerequisite: Concurrently enrolled in Algebra 2. Grade of D+ or lower in Algebra 1 or Geometry and teacher / administrator recommendation. The State of Michigan requires all high school students to complete four years of math, three of which must be Algebra 1, Geometry and Algebra 2. P-CCS and the P-CEP math department recognize the need to get students the extra math assistance for a successful experience in Algebra 2. Students will spend time reinforcing the lessons from their Algebra 2 class, and in some cases, learn some pre-lesson skills that may help them better understand the concepts taught in Algebra 2. Students may earn their 4th math credit by taking Algebra 2 Support; however, students must still earn math credits in Algebra 1, Geometry and Algebra 2, and take a math class their senior year.

Algebra 2 w/Trigonometry
1.0 credit Course 08055
Prerequisite: Grade of “A or B” in Algebra 1 or Grade of “C” in Algebra 1 and grade of “B” or higher in Geometry or grade of “C” or D” in Honors Geometry.
This one-year course will cover the Common Core Course Standards of Algebra 2. Topics will include Equations, Inequalities, Functions, Linear Systems, Factoring, Quadratics, Polynomials, Rational Exponents, Logarithms, Conic Sections, Probability, Statistics and Trigonometric ratios/graphs/identities/equations. A TI-84+ Graphing Calculator is recommended for use. You will not receive credit for both this course and Algebra 2 or Honors Algebra 2 w/Trigonometry.

Honors Algebra 2 w/ Trigonometry
1.0 credit Course 08058
Prerequisite: Grade of “A or B” in Honors Geometry or Grade of “A” in Geometry and teacher / administrator recommendation.
This one-year course will cover the Common Core Course Standards of Algebra 2. This course is more rigorous and fast-paced than Algebra 2 w/Trigonometry. Topics will include Equations, Inequalities, Functions, Linear Systems, Factoring, Quadratics, Polynomials, Rational Exponents, Logarithms, Conic Sections, Probability, Statistics and Trigonometric ratios/graphs/identities/equations. A TI-84+ Graphing Calculator is recommended for use. You will not receive credit for both this course and Algebra 2 or Honors Algebra 2 w/Trigonometry.

Algebra 3 w/Trigonometry
1.0 credit Course 08175
Algebra 3 is a fourth year course in a high school math sequence that will prepare students for college math. Students should enter Algebra 3 with competency in basic skills such as factoring, simplifying radicals, using basic rules for exponents, performing operations with rational expressions and imaginary numbers, and solving linear and quadratic equations. The course will begin with a review of algebra skills, and then students will work from the Precalculus textbook. Some of the topics covered include right triangle trigonometry, circular trigonometry and conic sections, transformations of graphs and data, sine and cosine, polynomial, rational, logarithmic and exponential functions, and trigonometric identities. Students successfully completing this course may enroll in Statistical Reasoning in Sports, Problem Solving, or AP Probability and Statistics or may enroll in Precalculus w/Trigonometry with teacher recommendation as a subsequent math course. Students who have completed this course MAY NOT subsequently enroll in Honors Precalculus w/Trigonometry.

Statistical Reasoning
0.5 credit Course 08115
Grade 12
Prerequisites: Algebra 2 or Algebra 2 w/Trigonometry.
This course teaches students how to use four-steps of the statistical process: ask questions, collect data, analyze data, and make conclusions in the context of sports, business, science, and other real-world applications. The primary focus of the class will be to teach students the basic principles of statistical reasoning.

Problem Solving
0.5 credit Course 08116
Grade 12
Prerequisites: Algebra 2 or Algebra 2 w/Trigonometry.
This course is designed to develop critical thinking and formal problem solving skills to explore recreational and real-life applications. Written and oral communication skills are an important emphasis of this class and will be practiced in presentations, collaborative work, and written solutions.

AP Probability & Statistics
1.0 credit, 1 Honor Point Course 08190
Prerequisite: Passing grade in Algebra 2 w/Trigonometry or higher course.
Statistics is the art and science of collecting, organizing, analyzing, and drawing conclusions from data. AP Statistics is designed as the full-year equivalent of a one-semester, introductory college statistics course. In AP Statistics, we will focus on four major themes: exploratory data analysis, designing studies, probability models and simulation, and statistical inference. The focus will be on the many and varied applications of statistics in medicine, business, psychology, environmental science, and other important fields. Students will learn to communicate thinking effectively and efficiently in written form. The synthesis of data provided in graphs and tables and statistical analysis techniques will provide the core conceptual drive of the course. This course prepares students to take the Advanced Placement Statistics exam in the spring in order to attempt to earn one semester of college credit.
Precalculus w/Trigonometry  
1.0 credit  
Course 08180  
Prerequisite: Grade of “B” or better in Algebra 2 w/Trigonometry. Students should enter Precalculus with competency in basic algebra skills such as factoring, simplifying radicals, using basic rules for exponents, performing operations with rational expressions and imaginary numbers, and solving linear and quadratic equations. This one year rigorous course requires a strong Algebra background in polynomial functions, logarithmic functions, exponential functions, graphing, graphing calculator techniques, vectors, polar coordinates, and series and sequences. These topics, as well as right triangle trigonometry, circular trigonometry and conic sections, will be explored and studied in much greater depth. Much of the work will focus on the applications of these.

Honors Precalculus w/Trigonometry  
1.0 credit  
Course 08185  
Prerequisite: Grade of “A or B” in Honors Algebra 2 w/Trigonometry or “A” in Algebra 2 w/Trigonometry and teacher recommendation. Students should enter Precalculus with competency in basic algebra skills such as factoring, simplifying radicals, using basic rules for exponents, performing operations with rational expressions and imaginary numbers, and solving linear and quadratic equations. This one year rigorous course requires a strong Algebra background in polynomial functions, logarithmic functions, exponential functions, graphing, graphing calculator techniques, vectors, polar coordinates, and series and sequences. These topics, as well as right triangle trigonometry, circular trigonometry and conic sections, will be explored and studied in much greater depth. Much of the work will focus on the applications of these. Successful completion of this class prepares the student for the study of AP Calculus BC.

AP Calculus AB  
1.0 credit, 1 Honor Point  
Course 08090  
Prerequisite: Precalculus with Trig. and a grade of “A, B or C” and teacher recommendation. 
This one-year course follows the recommendations of the Committee on Mathematics of the Advanced Placement Program. The course includes a review and extension of Analytic Geometry, Differential Calculus, applications of Differential Calculus, Integral Calculus and geometric and physical applications of Integral Calculus. This course prepares students to take the Advanced Placement Calculus AB exam in the spring in order to attempt to earn two semesters of college credit. Successful completion prepares students for enrollment in Calculus II at college or university. Alternatively, students may enroll in AP Probability and Statistics as a subsequent math course. Students who have completed this course MAY NOT subsequently enroll in AP Calculus BC.

AP Calculus BC  
1.0 credit, 1 Honor Point  
Course 08095  
Prerequisite: Honors Precalculus with Trig. and a grade of “A, B or C” and teacher recommendation. Students who have already completed AP Calculus AB are precluded from enrolling in this course. 
This one-year course follows the recommendations of the Committee on Mathematics of the Advanced Placement Program. The course includes a review and extension of Analytic Geometry, Differential Calculus, applications of Differential Calculus, including planar curves in polar, parametric and vector form, Logistic Differential Equations, Integral Calculus, geometric and physical applications of Integral Calculus, and Polynomial Approximations and Series. (cont.)

IB Mathematical Studies SL  
First Year  
1.0 credit  
Course 08201  
Second Year  
1.0 credit  
Course 08202  
Mathematical Studies is a two-year, International Baccalaureate, course that is for students with varied backgrounds and abilities. The course is designed to build confidence and encourage an appreciation of mathematics in students who do not anticipate a need for mathematics in their future studies. Students taking this course, however, should be already equipped with fundamental skills and a rudimentary knowledge of basic processes.

Mathematics SL  
First Year  
1.0 credit  
Course 08211  
Second Year  
1.0 credit, 1 Honor Point  
Course 08212  
Mathematics SL is a two-year, International Baccalaureate, course that is for students with knowledge of basic mathematical concepts who are able to apply simple mathematical techniques correctly. The course provides students with a sound mathematical background to prepare for future studies in subjects such as chemistry, economics, psychology and busniess administration. Students will be introduced to important mathematical concepts through the development of mathematical techniques in a way that emphasizes subject comprehension rather than mathematical rigor. Students should, where possible, apply the acquired mathematical knowledge to solve realistic problems. This class will prepare students to take the AP Calc AB Exam if they so choose.

IB Mathematics HL  
First Year  
1.0 credit  
Course 08221  
Second Year  
1.0 credit  
Course 08222  
(1 Honor Point)  
Mathematics HL is a two-year International Baccalaureate course for students with a strong background in mathematics and competence in a range of analytical and technical skills. Students will be likely to include mathematics as a major component of university studies—either in its own right or within courses such as physics, engineering or technology. The course focuses on developing important mathematical concepts in a comprehensive, coherent and rigorous way through a balanced approach. Students are encouraged to apply their mathematical knowledge to solve problems set in a variety of meaningful contexts and to justify and prove results. Students develop insights into mathematical form and structure and become intellectually equipped to appreciate the links between concepts in different topic areas. They will also be urged to develop the skills needed to continue their mathematical growth in other learning environments. The course is also for students who have a strong interest in mathematics and enjoy meeting its challenges. This class will prepare students to take both the AP Calc BC and AP Stats exams if they so choose.
MUSIC

These courses qualify for Visual, Performing, and Applied Arts graduation requirement

PERFORMANCE CLASSES
(INSTRUMENTAL MUSIC)

General Band
1.0 credit Course 09000
All students new and returning to a P-CEP band course must initially select General Band. An assessment will be held by the P-CEP Band Directors in the second semester prior to the next academic school year. If an assessment does not take place students will be placed in the entry level course based on instrumentation i.e., Varsity Woodwinds, or Concert Band Brass/Percussion. Students are placed in the ensemble courses appropriate to their skill set (overall musicianship) and ensemble instrumentation needs.

General Orchestra
1.0 credit Course 09005
Any student new to P-CEP will register for General Orchestra until an audition determines placement. Auditions will be scheduled through the middle school orchestra for incoming 9th graders and individually for students new to P-CEP. All Orchestra students will audition for placement in the spring. Auditions for Orchestra can be scheduled by calling the Orchestra Office at 416-2909.

Chamber Winds
1.0 credit Course 09156
Prerequisite: Audition and permission of instructor.
Ensembles provide students with a balanced comprehensive study of music through the concert band, which develops skills in the psychomotor, cognitive and affective domains. Instruction is designed so that students are enabled to connect, examine, imagine, define, try, extend, refine and integrate music study into other subject areas. Ensemble and solo activities are designed to required to participate in performance opportunities outside of the school day that support and extend learning in the classroom.

Band Courses
Wind Ensemble Course 09120
Advanced Level Course
Chamber Winds Course 09156
Intermediate/Advanced Level Course
Symphony Band Course 09030
Intermediate Course
Concert Brass/Percussion Course 09165
Entry Level Course
Varsity Woodwinds Course 09160
Entry Level Course

1.0 credit
Prerequisite: Audition and permission of instructor, participate in performance opportunities outside of the school day that support and extend learning in the classroom.

VARIOUS BAND

Varsity Brass Course 09140
Varsity Woodwinds Course 09160
Varsity Percussion Course 09150
1.0 credit
Prerequisite: Audition and permission of instructor.
This course provides balanced comprehensive study of music through the concert band, which develops skills in the psychomotor, cognitive and affective domains. Instruction is designed to enable students to connect, examine, imagine, define, try, extend, refine and integrate music study into other subject areas. Experience includes, but is not limited to; improvising, conducting, playing by ear and sight reading. Students are given opportunities to develop the ability to understand and convey the composer’s intent in order to connect the performer with the audience. Time outside the school day may be scheduled for rehearsals and performances. Students are required to participate in performance opportunities outside of the school day that support and extend learning in the classroom.

Concert Orchestra
1.0 credit Course 09065
Prerequisite: Audition and permission of instructor.
The Concert Orchestra is open to beginning and intermediate string students. The ensemble will perform three or four major concerts each year and may also participate in MSBOA District Festival. Students will focus on developing advanced playing techniques including shifting, development of vibrato and standard orchestral bowings. Students will have the opportunity to perform at Solo and Ensemble Festival and to participate in Chamber Orchestra.

Symphony Orchestra
1.0 credit Course 09130
Prerequisite: Audition and permission of instructor.
The Symphony Orchestra is open by audition to intermediate and advanced string students. The symphony combines with select students from the Wind Ensemble to rehearse weekly and perform four major concerts throughout the school year. The ensemble may also perform for both district and national music festivals. Outstanding performers are also given the opportunity to participate in the pit orchestra for the All-School Musical, perform with the Chamber Orchestra and participate in Solo Festival.

P-CEP Band Curriculum Description
Ensemble music curriculum engages students to create, perform, and respond in music, as is critical to the human experience. Balance, in music education, is vital to develop mental, physical, emotional, and musical growth. Connecting students to high expectations, and accountability with clear instruction is paramount. Building positive student relationships in a rigorous and safe environment is crucial in education and the number one priority. Students will experience a variety of opportunities to explore music and art e.g., solo, ensemble, class performance, concert performance, composition, music theory, and participation in Michigan School Band and Orchestra sponsored events.
PERFORMANCE CLASSES
(VOCAL MUSIC)

Park Singers (Soprano/ Alto only)
1.0 credit  Course 09090
Grade 9. This introductory choral ensemble provides a solid foundation in vocal production techniques, music theory, and sight-singing skills. Students may participate in Michigan School Vocal Music Association events. Students will perform in concerts throughout the year, possibly including after school, evenings, and weekends. No audition is required.

Parksmen (Tenor/ Bass only)
1.0 credit  Course 09095
This introductory choral ensemble provides a solid foundation in vocal production techniques, music theory, and sight-reading skills. Students may participate in Michigan School Vocal Music Association events. Students will perform in concerts throughout the year, possibly including after school, evenings and weekends. No audition is required.

Dulcissima (Soprano/ Alto only)
1.0 credit  Course 09190
Grades 10-12
Prerequisite: Audition and permission of instructor.
This ensemble studies vocal production techniques, music theory, and sight-singing skills at intermediate to advanced levels. Working with more challenging music in a wide range of traditional choral styles requires that high standards of musicianship, stage presence, and professionalism are expected of all ensemble members. Students may participate in Michigan School Vocal Music Association events. Students will perform in concerts throughout the year, possibly including after school, evenings and weekends.

ENCORE! (Soprano/ Alto/ Tenor/ Bass)
1.0 credit  Course 09180
Grades 10-12
Prerequisite: Audition and permission of instructor.
This is an intermediate to advanced mixed ensemble which combines singing with choreography while studying advanced vocal production techniques, music theory, and sight-singing skills. Working with challenging music in a unique range of styles including Musical Theatre, Jazz, and Pop requires that high standards of musicianship, stage presence, and professionalism are expected of all ensemble members. Students may participate in Michigan School Vocal Music Association events. Students will perform in concerts throughout the year. After school rehearsals and some touring concert performances are requirements of this course.

Allegro! (Soprano/ Alto only)
1.0 credit  Course 09040
Grades 10-12
Prerequisite: Audition and permission of instructor.
This intermediate ensemble builds on basic vocal production techniques, music theory, and sight-singing skills. Working with more challenging music in a broader range of styles requires that high standards of musicianship, stage presence, and professionalism are expected of all ensemble members. Students may participate in Michigan School Vocal Music Association events. Students will perform in concerts throughout the year, possibly including after school, evenings and weekends.

Chamber Choir (Tenor/ Bass only)
1.0 credit  Course 09020
Grade 10-12
Prerequisite: Audition and permission of instructor.
This select ensemble studies advanced vocal production techniques, music theory, and sight-singing skills. Challenging music and high standards of musicianship, stage presence, and professionalism are expected of all ensemble members. Students will perform in concerts throughout the year. After school rehearsals and frequent touring concert performances are requirements of this course.

Madrigal Singers (Soprano/ Alto only)
1.0 credit  Course 09070
Grades 10-12
Prerequisite: Audition and permission of instructor.
This select ensemble studies advanced vocal production techniques, music theory, and sight-singing skills. Challenging music and high standards of musicianship, stage presence, and professionalism are expected of all ensemble members. Students will perform in concerts throughout the year. After school rehearsals and frequent touring concert performances are requirements of this course.
NON-PERFORMANCE MUSIC CLASSES

Guitar
1.0 credit  Course 09050
Grades 10-12
Prerequisite: Students must supply their own full-sized folk or classical six-string guitar. No electric guitars. Class will cover all aspects of music reading including tablature, traditional notation, chords, strums and picking patterns. Units on music theory and on song writing will be incorporated throughout the course. Students work in small lesson groups and perform for each other weekly.

Music Theory
0.5 credit  Course 09080
Grades 10-12
This course does not currently qualify for Visual, Performing, and Applied Arts graduation requirement.
This course has been designed to meet the needs of the college-bound music student and other students in our school. This would include guitar and piano students and those interested in music composition. Students should have a basic working knowledge of scales and rhythm.

Beginning & Intermediate Piano
1.0 credit  Course 09010
Grade 10-12
This class is for the beginning and intermediate level students. Students will learn to read music (traditional notation, treble and bass clef). Various styles of music are covered. Students work in small lesson groups and perform for each other weekly.

IB Music
First Year  1.0 credit  HL Course 09211
First Year  1.0 credit  SL Course 09201
Second Year  1.0 credit  HL Course 09212
Second Year  1.0 credit  SL Course 09202
See description for these courses on page 18/19

FINE ARTS DANCE CLASSES

Artistic Dance 1  Course 10112
0.5 credit
Recommended for Grades 9-12
Students will be introduced to several dance styles including ballet, modern, lyrical and jazz. In addition to training the body for posture, movement and form, students will practice performance skills as well as some choreography. Students will also leave the class with the historical and cultural knowledge of the different dance styles and be able to critically evaluate live performances. No prior experience is necessary for this level just an interest or love of music and movement.

Artistic Dance 2  Course 10113
0.5 credit
Grades 9-12
Students familiar with the classic dance styles will be able to take their knowledge, skills and choreography to another level. This class will be structured with the practice of different styles of artistic dance and an emphasis on performance. A more in-depth study of the artistic periods and people in the world of dance will also be included. Critical analysis of dance and its components will be practiced and advanced. Students should have completed Dance I or have permission from the instructor to take Dance 2.
PHYSICAL EDUCATION

Personal Fitness
0.5 credit  Course 10072
Grades 9-12
Personal Fitness is a required physical education credit for graduation. It is recommended to be taken during Grade 9. It introduces a variety of activities in an exclusive environment, that are taught in other courses in the physical education department. These activities may include various ball skill sports. Other skills that may be included are: running, swimming, weight training, and yoga. Practice and participation habits will be closely monitored, and students will be expected to demonstrate growth progress in fundamental skill development. Elements of personal fitness will be emphasized and integrated into all instructional units. Students will study basic fitness concepts and vocabulary, examine personal fitness levels, identify areas in need of improvement, and formulate goals. Students will participate in many activities that will improve their social development, holistic fitness, agility, coordination, speed, strength, and cardiovascular fitness.

Same-Sex Personal Fitness
0.5 credit  Course 10072B (Males Only), 10072G (Females Only)
Same as above.

Basketball
0.5 credit  Course 10050
Grades 9-12
Individual and team basketball fundamentals and rules will be taught through the use of lectures and demonstrations. Students will learn through drill work and games how to play and enjoy the game of basketball. An additional portion of the class will be devoted to cardiovascular fitness and conditioning. Stretching, agility, running, and strength training will be included. Students should have some basic basketball skills to take the class.

Basketball, Girls
0.5 credit  Course 10055
Grades 9-12
Individual and team basketball fundamentals and rules will be taught through the use of lectures and demonstrations. Students will learn through drill work and games how to play and enjoy the game of basketball. An additional portion of the class will be devoted to cardiovascular fitness and conditioning. Stretching, agility, running, and strength training will be included. Students should have some basic basketball skills to enter the class. MHSAA Girls regulations will be followed.

Combination Racquets
0.5 credit  Course 10060
Grades 9-12
This course will teach the rules, fundamental strokes, shots and basic strategies of both singles and doubles games in the racquet activities. Combination racquet includes: tennis, badminton, wallabyball and racquetball. Each activity is planned for seasonal participation to allow the student to either be outside or inside.

Dance and Rhythmic Movement
0.5 credit  Course 10110
Grades 9-12
Dances such as hip-hop, Zumba, other cultural dances, and a variety of rhythmic may be taught based on student interest. This course is designed for students who are interested in improving their cardiovascular fitness, muscular strength, endurance, and flexibility. All of these will be emphasized through a variety of cardio, dance, and rhythmic conditioning exercises and activities. Fitness concepts such as full range of motion, flexibility, and movement techniques will be stressed throughout the semester. Students will have the opportunity to apply the skills taught and their knowledge while choreographing and teaching a dance routine.

Advanced Football
0.5 credit  Course 10035 (Canton) Course 10036 (Plymouth) Course 10029 (Salem) Course 10030  Offered Semester 1. Recommended for Grades 11-12
Prerequisite: Football Techniques or instructor approval.
Students will practice sports-specific training methods as well as weight training. Instruction will include but not limited to, sport-specific drills, plyometrics, flexibility, speed, agility, tiered cardio, resistance training, and core strengthening.

Lifeguarding
0.5 credit  Course 10090
Recommended for Grades 10-12. Must be at least 15 years of age and pass an entry level swim test.
This course follows the American Red Cross Lifeguarding requirements. This includes the passing of a proficiency test, set up by the American Red Cross, to be eligible for continued enrollment. Although the development of Lifeguarding skills is important, of equal importance is the part of the course devoted to classroom information related to Lifeguarding, CPR, AED, First-aid, and Blood Born Pathogens certification. The course is a combination of skill development and discussion. It will help the student become a highly skilled individual with a positive attitude toward safety while in, on or about the water. The objective of the course is to provide the individual with the knowledge and skills designed to save his or her life or the life of another in the event of an emergency. This is a physical contact class.
Soccer Strength & Conditioning
0.5 credit Course 10140
Grades 9-12
This course will give students the opportunity to develop skills in soccer. The class will start with an introduction to the rules and an orientation to the basic concepts of the game. Skill development will be done continually in each unit leading to the proper background to participate in games. Time will also be spent on general conditioning, running and fitness activities, and strength conditioning.

Swimming and Diving
0.5 credit Course 10160
Grades 9-12
This course will consist of a review of the basic water skills, water safety skills, strength training, flexibility exercises and diving introduced in Personal Fitness. Water skills will include adjustment to the water, rhythmic breathing, floating (back and prone), pool conduct and water safety. The strokes presented will be the crawl stroke, backstroke, sidestroke, elementary backstroke, breaststroke, and butterfly. Introduction of the basic water skills will include treading water, survival floating, surface diving, finning, sculling, underwater swimming, shallow, deep-water dives and springboard diving. Students who excel at the basic strokes may be taught advanced strokes. The student will eventually develop an individual workout program designed by the student and teacher. Dry land activities will also be included in this class.

Team Games
0.5 credit Course 10157
Grades 9-12
Based on student interest, games such as kickball, wiffleball, dodgeball, basketball, volleyball, softball, frisbee, team handball, flag football, as well as other games, may be played. These activities may be played indoors or outdoors based on the weather. This class incorporates fitness, agility, fundamental skill work, coordination, and teamwork, as well as promoting lifelong activities in many games.

Yoga and Pilates
0.5 credit Course 10117
Grades 9-12
YOGA, PILATES, BODY SCULPTING, STRETCHING AND RELAXATION TECHNIQUES MAY BE TAUGHT BASED ON STUDENT INTEREST. This course is designed for students interested in improving their mental health, flexibility, body toning, strength, coordination, and posture. Fitness concepts such as full range of motion, exhibiting proper form, relaxation techniques, and performing appropriate breathing techniques will be stressed throughout the semester. Students will have the opportunity to apply the skills taught and their knowledge while developing and presenting their own routine.

Courses offered in the Physical Education department may be repeated to further their knowledge and skills in a particular area. Students will receive credit for the course each time they successfully complete it.
## SCIENCE

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<th>Grade</th>
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### BIOLOGICAL SCIENCES

**Biology**

1.0 credit  
Course 11030

Grade 10.
Prerequisite: Successful completion of Geophysical Science or 80% or higher on a Geophysical Science test out.

Biology is a course designed to guide students in developing their understanding of the concepts of biology. The course will cover all of the Michigan Science Standards for life sciences. Fundamental characteristics and functions of living organisms will be investigated including cell structure and function. The performance expectations of the course will focus on scientific practices including developing and using models, planning and conducting investigations, analyzing and interpreting data, using mathematical and computational thinking, constructing explanations and engaging in argument from evidence. Biology meets the State of Michigan graduation requirements.

**Honors Biology**

1.0 credit  
Course 11020

Grade 10.
Prerequisite: Successful completion of Geophysical Science or 80% or higher on a Geophysical Science test out.

This is a rigorous first-year high school biology course that requires students to go further in-depth than Biology. It is intended for students who plan to enter a science or technical field of study in college. Honors Biology is a course designed to guide students in developing their understanding of the concepts of biology. The course will cover all of the Michigan Science Standards for life sciences. Fundamental characteristics and functions of living organisms will be investigated including cell structure and function. The performance expectations of the course will focus on scientific practices including developing and using models, planning and conducting investigations, analyzing and interpreting data, using mathematical and computational thinking, constructing explanations and engaging in argument from evidence. Honors Biology meets the State of Michigan graduation requirements.

**NOTE:** Students selecting a first year course in biology may elect either Biology or Honors Biology. Credit earned in one course excludes the student from earning credit in the other.

**Advanced Placement Biology**

1.0 credit, 1 Honor Point  
Course 11015

Prerequisites: Successful completion of Biology or Honors Biology and Chemistry.

AP Biology is a college level course both in difficulty and degree of sophistication. Course content will include cellular biology, genetics from the molecular to the population level, a wide range of gene.
technologies, physiology of the body and interrelationships in the ecosystem. Laboratory experiences complement lecture topics. Students are expected to be self-directed and able to utilize previously mastered concepts in the solution of novel problems both in lab and lecture. Good organizational, reading and study skills are essential for success. Students planning to pursue a career in medicine, nursing, biomedical or biochemical fields are well served by this course.

Honors Zoology
1.0 credit  
Course 11040
Prerequisite: Successful completion of one year of Biology. This course is intended to help the student develop an understanding of the ways in which all organisms, from the simplest to the most complex, execute the same life functions - growth & development, obtaining and using nutrients, maintaining homeostasis, locating a mate and reproducing. The study begins with the simplest unicellular organisms and progresses through colonial into invertebrate and finally to vertebrate animals. Students learn through investigation of preserved and live specimens about the many diverse ways in which an animal body may be organized. Guest speakers with live reptiles, bats and birds of prey, one or more collection trips to the ponds around campus and a trip to the Shedd Aquarium complement classroom learning. This course will be of interest to students pursuing a degree in any biological science (veterinary, wildlife biology, allied health professions) or those wishing to learn more about other life forms we share the planet with.

Ecology
0.5 credit  
Course 11080
Prerequisite: One year of Biology.
Ecology is a course that provides students with a basic understanding of the interrelationships between living organisms (including man) and their physical environment. Students will study the environment in small units known as ecosystems. They will learn what ecosystems are, how they work, what keeps them constant, and how they change over time. In the process they will view the sun and earth as ecological capital that can produce a biological income. The goal of humans is to preserve this capital and live off of its income. Each generation must be an environmentally sustainable society that leaves the earth in as good a condition as it received it.

Project Ecology
0.5 credit  
Course 11140
Grades 11-12. NOT NCAA APPROVED
Prerequisite: Ecology teacher approval.
Project Ecology is designed as a sequel to Ecology and may be elected by students who are seriously interested in a practical or applied approach to ecology. Working for the most part independently or in small groups, students will be required to design and implement projects relating to the school site and/or community.  
Respiration. Exploring science in action, students build organs and tissues on a skeletal manikin, work through interesting real world cases and often play the roles of biomedical professionals to solve medical mysteries.

Advanced Placement Environmental Science
1.0 credit, 1 Honor Point  
Course 11085
Grade 11-12.
Successful completion of Biology and Chemistry or ChemCom recommended. Juniors may take Chemistry or ChemCom concurrently with teacher approval.
AP Environmental Science course is designed to be the equivalent of a one-semester, introductory college course in environmental science.
Environmental science is an interdisciplinary course; it embraces a variety of topics from different areas of study such as geology, biology, environmental studies, chemistry, and geography. The goal is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving or preventing them. This course includes a strong laboratory and field investigation component, allowing students to learn about the environment through firsthand observation.
Experiences both in the laboratory and in the field provide students with important opportunities to test concepts and principles that are introduced in the classroom, explore specific problems with a depth not easily achieved otherwise, and gain an awareness of the importance of confounding variables that exist in the "real world."

Forensic Science  
Semester 1 Course 11091  
0.5 credit  
Semester 2 Course 11092
Grade 12.
Prerequisite: Successful completion of two years of science. Student must have completed one year of ChemCom or Chemistry. Reading and writing skills are important for mastery of this course. Each semester is independent and students have the option of taking one or both of the semesters. This course will introduce students to the science behind the crime. The major topics of study will include the processing of a crime scene, evidence analysis, and the role of a forensic expert in court.

IB Biology HL  
First Year 1.0 credit  
Second Year 1.0 credit
Course 11011  
Course 11012
IB Biology is a two year course that emphasizes a practical approach of studying biology through experimental work. Inquiry based reasoning methods will involve the formation, testing, and modification of hypothesis through observation, experimentation, collection, and analysis of data. Students will collaborate, utilize informational technology skills, appreciate scientific limitations and possibilities, and understand the significance of the scientific process. Four basic biological concepts that run throughout the course include: structure and function, universality versus diversity, equilibrium within systems, and evolution.
Human Body Systems  
1.0 Credit  
Course 11520  
Grade 11-12 for non-STEM Academy students  
Students examine the interactions of human body systems as they explore identity, power, movement, protection, and homeostasis. Students design experiments, investigate the structures and functions of the human body, and use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration. Exploring science in action, students build organs and tissues on a skeletal manikin, work through interesting real world cases and often play the roles of biomedical professionals to solve medical mysteries. This course is designed for 10th/11th grade students.

PHYSICAL SCIENCES

Geophysical Science  
1.0 credit  
Course 11070  
Grade 9.  
GeoPhysical Science is an introductory science course designed to guide students in developing concepts of Earth and Space Science. The course will cover all of the Michigan Science Standards for Earth and Space. This course focuses on physical surface features along with structure and dynamics of the earth. The performance expectations of the course will focus on scientific practices including developing and using models, planning and conducting investigations, analyzing and interpreting data, using mathematical and computational thinking, constructing explanations and engaging in argument from evidence.

Astronomy  
0.5 credit  
Course 11110  
Grades 11-12.  
The goal of this course is to examine Earth’s location in the Universe, space exploration and techniques used in extra-terrestrial observations. The course will provide an introduction to our perception of the Universe and the evolution of the theories that support that perception. The emphasis of this course is reinforced through hands-on learning. Newton’s Law of Gravity is demonstrated through scientific experiment using model rocketry. The size and separation of the planets and the sun are put into perspective by constructing a scale model. Students will also gain a better understanding of telescope design by laboratory demonstrations with light transmissions, lens refraction, and focal length manipulation. If scheduling permits, field trips are planned to an observatory, planetarium, a science and space center.

Advanced Placement Chemistry  
1.0 credit, 1 Honor Point  
Course 11045  
Prerequisites: Successful completion of Geometry and Chemistry or ChemCom; recommend enrollment in Algebra 2 or higher math course.  
This course is designed to be the equivalent of an introductory chemistry course taken during the first year of college. Topics covered will build upon those covered in the first year chemistry course with an emphasis on the structure of matter, kinetic theory of gases, chemical equilibrium, chemical kinetics, electrochemistry and the basic concepts of thermodynamics. This class is designed to prepare students for the AP exam, in the spring, in which college credit can be earned. Students taking this course should have strong math skills and be self motivated. Extensive laboratory work covering major topics will be included.

Chemistry  
1.0 credit  
Course 11050  
Grades 11-12.  
Prerequisites: Successful completion of Geometry; recommend enrollment in Algebra 2 or higher math course.  
NOTE: Students selecting a first-year course in chemistry may elect either Chemistry or ChemCom. Credit earned in Chemistry excludes the student from earning credit in ChemCom.

Chemistry is a course designed to guide students in developing an understanding of concepts of chemistry. This course will cover all of the Michigan Science Standards for chemistry under physical sciences. This course will focus on chemical bonding, chemical structure, reactions and reactivity, matter and its changing composition, families of elements and equation writing. The performance expectations of the course will focus on scientific practices including developing and using models, planning and conducting investigations, analyzing and interpreting data, using mathematical and computational thinking, constructing explanations and engaging in argument from evidence. Laboratory experiences will play an important role. Chemistry meets the State of Michigan graduation requirements.

Chemistry in the Community (ChemCom)  
1.0 credit  
Course 11060  
Grades 11-12.  
Prerequisite: Algebra I  
ChemCom is an introductory course that guides students in developing an understanding of concepts of chemistry. The course will cover all of the Michigan Science Standards for chemistry under physical sciences. ChemCom focuses on the role chemistry plays in the community. This course introduces chemical bonding, chemical structure and reactions. The performance expectations of the course will focus on scientific practices including developing and using models, planning and conducting investigations, analyzing and interpreting data, using mathematical and computational thinking, constructing explanations and engaging in argument from evidence. Laboratory experiences will play an important role. ChemCom will prepare students for upper level science courses and meets the State of Michigan graduation requirements.

Any student planning on a career in a scientific, engineering or technological, medical field should take Chemistry 11050.  
NOTE: Students selecting a course in chemistry may elect either ChemCom or Chemistry. A student may take Chemistry after completing ChemCom.

IB Chemistry HL  
First Year 1.0 credit  
Course 11041  
Second Year 1.0 credit  
Course 11042  
IB Chemistry is a two year course that combines academic study with the acquisition of practical and investigational skills through the experimental approach. Students learn the chemical principles that underpin both the physical environment and biological systems through the study of quantitative chemistry, periodicity, kinetics and other subjects. The chemistry course covers the essential principles of the subject and demands that students become aware of how scientists work and communicate with each other. Further, students enjoy multiple opportunities for scientific study and creative inquiry within a global context.
Physics
1.0 credit  
Course 11030
Grades 11-12
Prerequisite: Geometry with strong Algebra skills.
Physics is a course designed to guide students in developing their understanding of the concepts of physics. The course will cover all of the Michigan Science Standards for physics under the physical sciences. Physics will focus on applications of motion, forces, Newton's Laws, energy and momentum. The performance expectations of the course will focus on scientific practices including developing and using models, planning and conducting investigations, analyzing and interpreting data, using mathematical and computational thinking, constructing explanations and engaging in argument from evidence. Physics meets the State of Michigan graduation requirements.

Advanced Placement Physics 1
1.0 credit, 1 Honor Point  
Course 11080
Grades 11-12
Prerequisite: Successful completion of Chemistry /ChemCom. Successful completion of Geometry and enrolled in Algebra 2. Recommended that students be enrolled in Algebra 3 or higher math course.
AP Physics 1 is the equivalent of a first semester college course in algebra-based physics, but it is designed to be taught over a full academic year to enable AP students to develop deep understanding of the content and to focus on applying their knowledge through inquiry labs. The course covers kinematics, Newtonian mechanics, torque, rotational motion and angular momentum, gravitation and circular motion, work, energy, power, linear momentum, oscillations, mechanical waves and sound as well as introductory circuits. Through inquiry-based learning, students will develop scientific critical thinking and reasoning skills. This course requires that 25 percent of the instructional time will be spent in hands-on laboratory work, with an emphasis on inquiry-based investigations that provide students with opportunities to apply the science practices.

IB Physics HL
First Year 1.0 credit  Course 11121
Second Year 1.0 credit  Course 11122
Prerequisites are for the student to be taking Pre-calculus, or Math HL/SL concurrently with their first year of IB Physics.
IB Physics is a two year, algebra-based, physics course that students will begin in junior year of high school. The course will cover a wide range of topics that show how scientists make sense of a wide range of phenomenon in the universe, from the very small (subatomic particles) to the very large (stars and galaxies). Students are also expected to have taken or be concurrently enrolled in a chemistry class. The students will develop their understanding of physics through an inquiry-based approach that uses experimental results and critical thinking to build conceptual and mathematical models.
### SOCIAL STUDIES

#### Course Required for Graduation

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<thead>
<tr>
<th>Grade</th>
<th>Course</th>
<th>Alternate to Required Course</th>
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<tbody>
<tr>
<td>9</td>
<td>World History &amp; Geography</td>
<td>AP World History</td>
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<tr>
<td>10</td>
<td>U.S. History &amp; Geography</td>
<td>AP U.S. History</td>
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#### Social Studies Electives

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<tr>
<th>Grade</th>
<th>Courses</th>
<th>Introduction to Psychology</th>
<th>Military History</th>
<th>Modern European History</th>
<th>Practical Law</th>
<th>Western Civilization</th>
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<tr>
<td>10</td>
<td>AP Psychology</td>
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<td>AP U.S. History</td>
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<td>Honors Cultural Anthropology</td>
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<td>Honors Physical Anthropology</td>
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<td>11 &amp; 12</td>
<td>AP World History</td>
<td>African American History &amp; Culture</td>
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<td>AP U.S. History</td>
<td>American Culture &amp; Baseball</td>
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<td>AP Psychology</td>
<td>American Media Studies</td>
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<td>AP U.S. Government</td>
<td>Honors Cultural Anthropology</td>
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<td>AP Microeconomics</td>
<td>Honors International Relations</td>
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<td>AP Macroeconomics</td>
<td>Honors Philosophy</td>
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<td></td>
<td>IB Geography HL or SL</td>
<td>Honors Physical Anthropology</td>
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<td>IB World Religions SL</td>
<td>Introduction to Psychology</td>
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### World History and Geography

**1.0 Credit**  
Course 12225  
A required Grade 9 course.  
Students explore the history and geography of the world from the fall of the Roman Empire to the present day. Specific attention will be paid to historical and geographical skills. Topics include: the spread and influence of world religions; the major civilizations and empires throughout world history; the impact of technology, slavery, imperialism, nationalism, and independence movements; the causes and effects of global conflicts; and cultural diffusion and interaction throughout the world. All students will be placed in the 9th grade World History course unless a student successfully tests out of this course.

### U.S. History and Geography

**1.0 Credit**  
Course 12230  
A required Grade 10 course.  
Increase foundational understanding of the United States through study of the political, economic, social, diplomatic, cultural and international structures. Examine topics, issues, events, movements, people, and documents to develop a complex understanding of its people, their values, and ideals, and the course of its progress since 1870’s. Activities designed to advance knowledge and understanding of the American presence in a global community. Deepen understanding of the nation’s underlying constitutional principles and core democratic values, and the role these ideas play in larger debates on contemporary issues. Learn the significance of the interactions between human beings and the physical and natural environments in which they live and work.
IB Geography HL

**First Year**  
1.0 credit  
Course 12281

**Second Year**  
1.0 credit  
Course 12282

(1 Honor Point)

**Geography SL**

**First Year**  
1.0 credit  
Course 12271

**Second Year**  
1.0 credit  
Course 12272

IB Geography is a two-year interdisciplinary course that bridges the social and physical sciences. This subject area challenges individuals to apply what is known about the physical landscape with how humans respond to that landscape. Students who enroll in this course will be challenged to combine complex global issues and research with their own beliefs and ideas. They will engage in an in-depth look at various regions throughout the world in an effort to gain a thorough understanding of the physical environment, culture, people, and societies that develop.

**Political & Economic Systems - Civics**

0.5 Credit  
Course 12032

A required Grade 11 course.

The purpose of the course is to increase students’ understanding of competing political systems with a specific emphasis on that of the United States and to develop students’ abilities to function within this system effectively. Students will examine in depth the structure and functions of the system from the national to the local level. They will also participate in a variety of activities that are designed to advance their knowledge and understanding of current political issues prevalent in our nation. These activities will also deepen their understanding of our nation’s underlying constitutional principles and core democratic values, and the role these ideas play in larger debates on the issues. In addition they will learn to view the issues and positions taken on them by various groups from a variety of competing perspectives. Successful completion of this course fulfills the Michigan Merit Curriculum requirement for civics.

**Political & Economic Systems - Economics**

0.5 Credit  
Course 12031

A required Grade 11 course.

The purpose of the course is to increase students’ understanding of competing economic systems with a specific emphasis on that of the United States and to develop students’ abilities to function within this system effectively. Students will examine in depth the structure and functions of the system from the micro to macro level. They will also participate in a variety of activities that are designed to advance their knowledge and understanding of current economic issues prevalent in the domestic and international economy. These activities will also deepen their understanding of our nation’s market economic principles and the role these ideas play in larger debates on the issues. In addition they will learn to view the issues and positions taken on them by various groups from a variety of perspectives. Successful completion of this course fulfills the Michigan Merit Curriculum requirement for economics.

**AP U.S. History**

1.0 Credit, 1 Honor Point  
Course 12240

Grade 10-12

Advanced Placement United States History is a year-long course that specifically prepares students to take the AP Exam in May and students may elect to do so. They will study, in depth, the events, persons, places, documents and ideologies, which have been present from colonization to the present. With the recommendation of their 9th grade Social Studies and English Language Arts teachers, a student may take AP United States History to satisfy the United States History requirement for graduation.

**Western Civilization**

1.0 Credit  
Course 12260

Grade 10-12

Western Civilization is a yearlong advanced elective History class primarily for juniors and seniors with a college preparatory course of study. The purpose of the class is to provide students with a foundation to understand the key ideas and events that have a continuing impact on their daily lives as individuals and as members of our society. Students will learn about the people, ideas and events that have shaped our modern Western culture by looking at social, cultural, economic, philosophical, artistic, military and political aspects of Western societies.

**AP World History**

1.0 Credit, 1 Honor Point  
Course 12020

Grades 9-12

The purpose of this course is to develop greater understanding of the evolution of global processes and contacts in interaction with different types of human societies. The course highlights the nature of changes in international frameworks and their causes and consequences, as well as comparisons among major societies. The course emphasizes relevant factual knowledge deployed in conjunction with leading interpretive issues and types of historical evidence. It focuses on the past 800 years of the global experience.

**American Culture and Baseball**

0.5 Credit  
Course 12286

Grades 10-12

This is a semester long history course designed to teach students who we are as a people by focusing solely on the game of baseball. All social studies disciplines will be covered: History, Geography, Government & Economics. The class begins with a look at the origins of the game and its evolution into “America’s Pastime”. Students will focus on the history of the game, the integration of a diverse body of players into the game, and the movement and growth of American population centers and how that relates to growth of baseball and location of baseball teams. Additionally, numerous topics covering the rule of law, the valuation of players and notable figures from baseball’s past define the class. Finally, the classes spend a great deal of time focusing on the social aspects of the game. This is done by using baseball to help us evaluate the relationships between parent and child, between friends and between the people and their community. In a normal day in class, students spend time watching and analyzing film, evaluating primary sources, sharing and listening to personal stories so they engage in the shared experience that is and always has been – Baseball.
Military History

0.5 Credit        Course 12220
Grades 10-12

U.S. Military History is a semester long survey course in which students examine the relationship between military events and the course of American History. The purpose of the class is to deepen students' awareness of the impact of war on individuals, American society and the world as a whole. Students will study in detail the events, persons, places, documents, and technology connected to each of the wars and military conflicts from the American Revolution to the present. They will learn about the decisions made by political and military leaders, critique those decisions and assess the outcomes of those decisions. Finally, students will also consider the impact of geography on military events of significance.

Modern European History

0.5 Credit        Course 12160
Grades 10-12

Modern European History introduces students to the key events that have impacted the development of the contemporary European community since the French Revolution. Students study the social, economic, and political problems of Europe since 1789 in detail so as to deepen their understanding of the ways in which historical events serve as the precedent to today's conflicts and issues. Students taking humanities may wish to use this class as an enhancement to their existing course of study. Interested students can also elect to use Modern European History to prepare for the Advanced Placement Exam with instructor approval and earn AP credit and honors points toward graduation.

African-American History and Culture

0.5 credit        Course 12075
Grades 11-12

This course examines African American history from the 1890's to the present. Within this chronology students will revisit key themes such as empowerment, community, identity, the role of the church, citizenship, entrepreneurship, oppression, and cultural expression. Class is structured around a variety of historical source materials within each unit of study. Students will be expected to interpret primary and secondary sources, like literature, music, artwork, oral histories, political documents, and film, throughout the class. Further, students will be expected to take a stand on unit questions, support opinions with historical evidence, and present/defend their ideas to a wider audience. Upon completion students will be able to analyze significant political, socioeconomic, and cultural developments within the history of African-Americans.

Michigan History: A Local Look

0.5 Credit        Course 12145
Grades 10-12

In this semester long class, students will explore Michigan's unique history and culture. The students will take a thematic look at Michigan while studying its geography, natural resources, immigration and migration, work and labor, community, cultural and military affairs in addition to other elements of Michigan's important past and present. The class culminates with a historic preservation project, as opposed to a final exam, that document vital aspects of our local story. In 2019-2020, the school district is celebrating 190 years of education in our community. In 2019-2020, the school district is celebrating 190 years of education in our community. Michigan history students will be granted the appropriate time to engage in interesting and authentic local research on past individuals who attended our schools and related events covering these 190 years. The culmination of this research will have value as it will be presented in a public forum showcasing the incredible lives and defining moments that shaped our local community.
methods of psychological inquiry. 

This course explores diversity in culture, as it exists in not only pre-literate societies but also that of those in socioeconomic transition. Particular attention will be given to the scientific method as it applies to ethnographic research. The ability to view culture in its entire context, from an objective and culturally relative perspective is an essential goal of the course.

**Honors Physical Anthropology**  
*0.5 credit  Course 12180*  
Grades 10-12. Offered Semester 1.  
Physical Anthropology is a course that not only traces the physical and cultural emergence of man but also explores the scientific process, which guides all anthropological research. The role of archaeology, as an investigative method, is a critical tool used in the examination of the human fossil record, thus particular attention is given to the scientific method as applied in archaeological research and laboratory analysis of material remains.

**Introduction to Psychology**  
*0.5 credit  Course 12115*  
Grades 10-12  
This course investigates the many theoretical models of human behavior, with an emphasis on how each describes, explains and predicts human behavior. Topics may include major approaches and the scientific method, brain physiology, sensation and perception, states of consciousness, learning theory, memory, theories of personality, disorders and social psychology.

**AP Psychology**  
*1.0 Credit, 1 Honor Point  Course 12015*  
This program offers a course and examination to qualified students who wish to complete studies in secondary school, equivalent to that of an introductory college course in psychology. This course is designed to introduce students to the systematic and scientific study of the human behavior. It includes a rigorous examination of current work in research, theory and therapy practices. The scope and focus is one of clinical application where students become familiar with the treatments, trends, issues and debate of current work in the field of psychology.

**IB Psychology HL**  
*1.0 Credit  Course 12261*  
First Year  
Second Year  
1 Honor Point

**IB Psychology SL**  
*1.0 Credit  Course 12251*  
First Year  
Second Year

The IB Diploma Programme psychology course aims to develop an awareness of how research findings can be applied to better understand human behavior and how ethical practices are upheld in psychological inquiry. Students learn to understand the biological, cognitive and sociocultural influences on human behavior and explore alternative explanations of behavior. They also understand and use diverse methods of psychological inquiry.

**Honors Cultural Anthropology**  
*0.5 credit  Course 12070*  
Grades 10-12. Offered Semester 2.  
This course is designed to facilitate the development of an expanded cross-cultural perspective. The course explores diversity in culture, as it exists in not only pre-literate societies but also that of those in socioeconomic transition. Particular attention will be given to the scientific method as it applies to ethnographic research. The ability to view culture in its entire context, from an objective and culturally relative perspective is an essential goal of the course.

**Introduction to Sociology**  
*0.5 credit  Course 12120*  
Grades 10-12  
This is a semester-long course. Students explore the history of and current issues facing sociology from its founding as a recognized discipline. Specifically, they will study its formation, resources, procedures, standards, patterns, issues, sociology’s relationship to other social sciences, important persons, and current issues. Through such examination of their own society, students should develop a deeper appreciation of their own social lives, as well as be able to make thoughtful contributions to our evolving society as well-informed citizens.

**Logic & Reasoning**  
*0.5 credit  Course 12130*  
Grades 11-12. Qualifies for Applied Math credit.  
This course examines key elements of logical argument. Students evaluate formal, everyday, and public policy arguments according to set standards. This prepares them to better organize their own reasoning. In particular, students learn informal logical fallacies, informal (natural language) logic and formal (symbolic) logic. All help students get ready for the ACT. The formal logic unit also grooms students for introductory logic courses that apply toward students’ “quantitative reasoning” credit at more than one-third of Michigan’s public universities.

**Honors Philosophy**  
*0.5 credit  Course 12170*  
Grades 11-12  
In this course students will discover and learn different techniques and methods used to evaluate the meaning of their personal experiences and the experiences of others. Questions like: What is reality? What is the truth? What is fact? What is good or bad? will be considered from many different points of view. Students learn how the philosophers of the past tried to answer these and other questions. The present problems of philosophy will be identified and students will try to create their own answers to these problems. The class will use a wide variety of resources to help students understand and use the materials they will experience. Students will also have a variety of opportunities to demonstrate their knowledge of the materials.

**Honors International Relations**  
*1.0 credit  Course 12100*  
Grades 11-12  
This course explores international structure and process, as well as regional and global issues. The class will consist of lectures, debates, guest speakers, videos, simulation and the preparation necessary to participate in these activities. After learning some political science models for analysis of global politics, students will then apply this knowledge in several “hands on” activities. Some of these include: a 4-day Model UN at the University of Michigan (2nd semester), a Middle East simulation, sponsorship of the P-CEP Model UN (2nd semester), as well as several voluntary overnight Model United Nations conferences.
AP U.S. Government  
1.0 Credit, 1 Honor Point  
Course 12290  
Grade 11-12  
Advanced Placement United States Government is a yearlong course designed for students who would like to pursue the study of the U.S. Government in more detail. The class specifically prepares students to take the AP Exam in May. Successful completion of this course satisfies the civics graduation requirement.

AP Microeconomics  
0.5 credit  
Course 12023  
AP Macroeconomics  
0.5 credit  
Course 12025  
1 Honor Point  
Grade 11-12. Prerequisite: Algebra 2  
These courses offer a rigorous tour into a college-based economics curriculum. The courses will follow the college board’s guidelines for the two subjects and will be geared to helping students not only pass the AP exams, but also to increase student understanding of economic principles. Successful completion of both courses satisfies the economics graduation requirement.

Practical Law  
0.5 credit  
Course 12190  
Grades 10-12  
Practical Law is a one-semester Social Studies elective that is generally taken by 11th and 12th grade students who have completed both Political and Economic Systems and United States History. Students will explore the legal system and how it applies to issues in their everyday lives. Emphasis will be placed on understanding the dynamic interaction between the culture, the economy and the legal system. The purpose of the class is to develop students’ understanding of the legal principles that govern their lives and to enable them to function within that system knowledgeably and effectively.

American Media Studies  
0.5 credit  
Course 12280  
Grades 10-12  
This is an elective to understand the media’s role in shaping our society. Students gain an understanding of the power and impact of various media on people and societies. The course is designed to be multi-faceted. Study a variety of media formats and the concepts associated with those formats. Study the historical development of the media, how economic, social and political issues impact various media, and the wide range of current media formats. A significant component of this class explores the impact the media has on the individual and on society as a whole.

Crow Canyon Archeological Field School  
0.5 credit  
Course 12060  
Offered summer term only.  
Prerequisite: student must have received credit in either Physical or Cultural Anthropology and permission of instructor.  
Crow Canyon Archaeological Field School is an archaeological training center in the southwest corner of Colorado. Student groups are involved in lectures, seminars, excavation of actual prehistory Indian sites, laboratory analysis of artifacts and primitive technology activities. Credit for this experience is dependent upon participation in all Crow Canyon activities and extensive research and writing. The trip costs students approximately $1,400 – supplemental fundraising is available.

IB World Religions SL  
First Year  
1.0 credit  
Course 12291  
Second Year  
1.0 credit  
Course 12292  
IB World Religions is a two year course. In the modern world, religion has a significant influence on individuals and societies across the globe. The power of religion to both unite and divide effects believers and nonbelievers alike. This course will promote respect for the diversity of religious beliefs, both locally and globally, with the aim of enhancing international and inter-religious understanding. Emphasis will be on a deeper approach to the study of contemporary faiths and to greater appreciation for each religion in its original setting, and how it has evolved to where it is today. Students will engage in an experiential dimension in and out of the classroom, bringing them into contact with members of faith communities, sacred spaces, and varied examples of what it means to be a follower of each particular religion.

IB Theory of Knowledge (TOK)  
1.0 Credit  
Course 12295  
Theory of Knowledge is an interdisciplinary course that challenges students to evaluate how knowledge is acquired, developed, and transformed while providing them with an appreciation for other cultures. Through the study of the areas of knowledge (mathematics, human sciences, natural sciences, arts, history, and religious knowledge systems) and the ways of knowing (reason, language, faith, and emotion), the course encourages students to see themselves as thinkers, to think critically about knowledge itself, and to understand how our culture and experience informs that knowledge.
VISUAL ARTS

All courses in VISUAL ARTS qualify for the Visual, Performing, and Applied Arts graduation requirement.

Art Foundations 0.5 credit Course 02130
Art Foundations is a studio art course for the serious minded art student. Students will address and solve 2D & 3D problems visually, using a variety of media, while developing their own individual artistic voice. This class will focus on the creative process, elements & principles of design, art history and portfolio development. This course is available to all Park students and is recommended as a first course for Art Academy students in the Visual Art track and/or students who plan to take IB Art and AP Art.

Art Survey 0.5 credit Course 02140
This survey course is designed for the non-art student in grades 9-12 to help develop their creative awareness through artistic expression. The students will concentrate on various elements of art and the many different forms art can take while introducing an appreciation for artworks from different cultures both contemporary and historic. Students will explore the world of art through art discussion, activities and small projects.

Comic Books & Graphic Novels 0.5 English and 0.5 art credit (1.0 credit total) Course 04145
Grade 11-12 Qualifies for VAPAA graduation requirement.
This course offers an introduction to analyzing popular culture through the graphic novel. Together, we will explore the ways meanings emerge in several celebrated texts of the graphic novel and comics genre, as well as some emerging classics. We will interrogate the relationships between the concepts “graphic novel” or “comic book” and “popular culture,” with each of us bringing our lived experiences to our readings and discussions. The course involves a considerable amount of reading, writing, and illustration. Each student will be required to create his or her own original comic book stories to be published and presented electronically during the course of the year. This course is designed to focus on improving reading comprehension and literary analysis while exploring a wide variety of topics to learn how graphic storytellers use and manipulate historical and contemporary social issues as building blocks for their art.

Digital & Media Arts 1 1.0 credit Course 02150
This is a full year introductory course designed for the motivated fine art student interested in creating digital art that utilizes a wide range of digital tools and programs. This course establishes a foundation for all levels of experience and introduces the student to the fundamental skills and knowledge needed to understand and create digital art and animation. Computer skills and design/drawing processes are developed through a series of project-based assignments utilizing a wide range of computer software such as Adobe Photoshop, Illustrator, InDesign, Flash Animation, After Effects and Blender. Projects include activities such as sketching, digital drawing with a tablet, digital illustration (PhotoShop paintings, vector illustrations), photo editing/compositing, silkscreening, 2D and 3D animation.

Digital & Media Arts 2 1.0 credit Course 02160
Prerequisite: Digital & Media Arts 1
Students will continue to develop and expand their prior skills and knowledge by utilizing programs such as Adobe Photoshop, Illustrator, InDesign, Flash Animation, After Effects and Blender. The emphasis for the second year course is for students to begin to master the digital techniques previously introduced, and to develop their own creative voice. They will do this by creating a digital portfolio that strengthens and develops their creative and conceptual skills by designing original digital content, 2D and 3D computer animations, digital illustrations and large-scale conceptual projects.

Honors Digital Art 1.0 credit Course 02170
Prerequisite: Grades 11-12
Completion of two credits or more of digital art classes. In addition, students must complete an application and submit a portfolio to be approved by the art department before signing up for the class. Honors Digital Art consists of investigating various forms of expression and techniques that use the principles and elements of design in a digital format. This class is designed for experienced, highly motivated and dedicated digital art students. Students will finish this course with strong skills utilizing photography, digital art and illustration, photo editing and manipulation and the theoretical and practical applications of the principles of design. Honors Digital Art is preparing students for AP Studio Art- 2D Design exam which is based on a portfolio. In May students may submit their portfolio for review by the college boards. A fee is required for this review. Course content is based upon the suggested curriculum of the College Board for Advanced Placement Studio Art Drawing and 2-D Design. This course is designed around three areas of focus. The concentration section demonstrates a depth of investigation and process of discovery. The breadth section demonstrates a serious grounding in visual principles and material techniques. The quality section demonstrates the works that best exhibit a synthesis of form, technique, and content.

Ceramics 0.5 credit Course 02100
In this course, students learn a variety of clay construction techniques using hand-building. Students will learn pinch, coil, slab, extruded and combination techniques. Students will learn a variety of surface decoration and finishing techniques. The student will be challenged to think critically about three-dimensional design solutions and solve the problems of integrating design elements and principles while developing functional, decorative forms. Students will focus on proper technique while studying cultural and historical influences on ceramics and use that information to influence their own work.
Advanced Ceramics

0.5 credit  Course 02040
Prerequisite: Ceramics
Students combine hand-built and wheel thrown forms to create functional and decorative forms. Students will learn to center, open and pull/raise on the wheel. Students will create thrown cylindrical and bowl forms, as well as advanced decorating and glazing techniques. This course will challenge the experienced ceramist to develop individual style and to create pottery forms in a series. The student will continue to be challenged to think critically about three-dimensional design solutions and to solve the problems of integrating design principles while developing functional and decorative pottery. Students will focus on proper technique while studying ceramics from various periods in art history and the relationship to their own work.

Drawing and Sketching

0.5 credit  Course 02050
Students will learn the basics of drawing from observation, how to look at something and draw it realistically. Major themes include figure and portraits, still lifes, landscapes and linear perspective. Students will work to improve their understanding of composition and design, as well as a reference to art history. The student will be challenged to think critically about two-dimensional design solutions and integrating design principles. Possible materials include pencil, charcoal, charcoal, ink, colored pencils and pastels.

Advanced Drawing

0.5 credit  Course 02120
Prerequisite: Drawing and Sketching
Students will focus on alternative drawing media, and learn new drawing techniques while experimenting with alternative drawing surfaces. Students will learn to develop their own voice and, personal style and emphasis will be placed on how and where artists find their own original ideas. Students will continue to develop composition and design skills, hone their ability to draw from life, and reference art history in relationship to their own work. The students will continue to be challenged to think critically to solve unique designs and to solve the problems of integrating design principles.

Metals

0.5 credit  Course 02080
Students will explore the jewelry making process from sketching and planning to finished functional or decorative jewelry for use or display. The student will use a variety of construction techniques, such as cutting, piercing, riveting, and soldering developing a foundation of good craftsmanship. The student will create various findings, methods of creating texture in metals to create finished pieces of adornment. The student will be challenged to think critically about three dimensional design solutions and to solve the problems of integrating design principles while developing functional, decorative and sculptural forms. Possible materials include copper, nuGold, brass, bronze, nickel silver, semi precious stones and found objects. The option of creating additional projects, the use of sterling silver or additional stones will be available at an additional student expense.

Advanced Metals

0.5 credit  Course 02010
Prerequisite: Metals
In this course, students will build upon techniques learned in Metals to create functional and decorative jewelry with a focus on aesthetics. Complex pieces such as metal beads, patina, enameling, and various other techniques will be explored. This course will challenge the advanced jeweler to develop individual style and to create elaborate jewelry forms. The student will continue to be challenged to think critically about design solutions and to solve the problems of integrating design principles while developing well-designed and ornamental jewelry. The option of creating additional projects, the use of sterling silver or additional stones will be available at an additional student expense.

Painting

0.5 credit  Course 02090
This course will allow the student the opportunity to explore a variety of painting media and various techniques specific to it. Students will focus on developing their individual artistic voice while working with abstract compositions and painting from life. Students will explore their understanding of composition, design, color theory, and technique. The student will be challenged to think critically about two dimensional design solutions and to solve the problems of integrating design elements and principles into their final projects. Possible materials include pastels, tempera, watercolor, or acrylic.

Advanced Painting

0.5 credit  Course 02020
Prerequisite: Painting
Students will use a variety of color media to create paintings from life, including figure painting, portraits and still life, while working to develop a personal style. Students will use the visual language of color, traditional and experimental techniques, creative ideas, and responses to the environment to continue to develop composition and design skills, hone their ability to paint from life, and reference art history in relationship to their own work. The student will continue to be challenged to think critically about two dimensional design solutions and to solve the problems of integrating design principles in their personal artwork.
Course 02110
0.5 credit
Sculpture

Students will explore the sculptural processes from sketching and planning to finished sculptures for display. Students will focus on proper technique while studying sculpture from various periods in art history and the relationship to their own work. The student will sculpt using a variety of materials and construction techniques: manipulative, additive, and subtractive methods. The student will be challenged to think critically about three-dimensional design solutions and to solve the problems of integrating element and design principles while developing functional, decorative sculptural forms. Possible materials include plaster, stone, wood, wire, clay, and found objects.

Course 02510
0.5 credit
Beginning Photography

This course introduces the students to the basic concepts of both digital and film photography. The history and science of photography will also be explored. Students will learn the mechanics of both the 35 mm camera as well as the digital camera. They will learn traditional black & white darkroom processes, film processing, and digital imaging basics using Adobe Photoshop. Shooting assignments will focus on seeing, creativity, expression, and quality of the final print. It is helpful, but not required, for students to have access to a digital & film point-and-shoot camera to use for the course.

Course 02520
0.5 credit
Intermediate Photography

Prerequisite: Beginning Photography
In this course, students take what they have learned in beginning photography and apply their knowledge at more advanced levels. Students will continue to work on technique, composition, expression, and the quality of final prints in both darkroom and digital photography. Students will also be required to learn advanced operation of a 35mm camera and fundamentals of lighting. Utilization and function of camera accessories such as lenses, light meters and filters will also be reviewed. It is helpful, but not required, for students to have access to a digital and film point-and-shoot camera to use for the course. An adjustable single lens reflex (SLR) film camera would also be helpful.

Course 02530
0.5 credit
Advanced Photography

Prerequisites: Intermediate Photography
This course is designed for the serious photography student who wishes to fine-tune, perfect, and apply the skills learned in previous photography classes. Students should be able to work independently at this level; emphasis is placed on student-driven shooting assignments in which advanced techniques and ideas are explored, as well as outside shoots that challenge the “eye” of the creative student. Students will be exposed to various career paths in photography, as well as the work of current and past photographers. This class will assist the student in producing a portfolio of work for employment or placement in a school of higher creative studies. It is helpful, but not required, for students to have access to a digital and film point-and-shoot camera to use for the course. An adjustable single lens reflex (SLR) film camera would also be helpful. Course may be repeated for credit.

Course 02540
1.0 credit
Honors Photography

Prerequisites: Completion of Beginning and Intermediate photo. All students must complete an application, submit a portfolio, and be approved by the art department before signing up for the class. This course is designed for the motivated student interested in creating and completing a portfolio for submission to the AP College Board and/or for submission to Art school. Students must be highly motivated and interested in studying photography and 2-D design at the highest level. At the end of the year students may submit a portfolio containing twenty-four finished pieces. The content of the course is based on the College Boards’ suggested curriculum, and will consist of Breadth (Demonstrates a range of experimentation and experience in 2-D Design), Concentration, (Shows the student’s in-depth exploration of a particular design concern) and Quality (Five works that best demonstrate excellence).

Course 02600
1.0 credit, 1 Honor Point
Advanced Placement Art 2-D Design or Drawing Portfolio

Prerequisite: Grade 11-12
Completion of 4 or more, visual art classes with a “B” or better. All students must complete an application and submit a portfolio to be approved by the art department before signing up for the class. Pick up applications in the Counseling Office or from a visual arts teacher.

This course is designed for the motivated student interested in the serious study of drawing and 2-D design. This course requires significant studio assignments to be completed at home with the student’s personal materials. Submission of a portfolio consisting of twenty-four finished pieces of work, written critiques, historical research and an artist statement must be completed to successfully complete this course. In May students may submit their portfolio for review by the college boards. A fee is required for this review. Course content is based upon the suggested curriculum of the College Board for Advanced Placement Studio Art Drawing and 2-D Design. This course is designed around three areas of focus - The Concentration section demonstrates a depth of investigation and process of discovery. The Breadth section demonstrates a serious grounding in visual principles and material techniques. The Quality section demonstrates the works that best exhibit a synthesis of form, technique, and content.
IB Visual Arts HL 1  
First Year  
1.0 credit  
Course 02811  
(1 Honor Point for HL)  

IB Visual Arts SL 1  
First Year  
1.0 credit  
Course 02801  

Grade 11, 12  
Prerequisite: Intro to Art and completion of at least one other Visual Arts course (or related experience).  
All students must complete an application and submit a portfolio for approval by the art department before enrolling in the class.  
This course is designed for motivated students who wish to fully engage in the artistic process through in-depth study in both written and visual forms.  Students will explore and develop art techniques in a broad range of stylistic approaches and media (2-D & 3-D), producing meaningful, creative, and personally relevant works of art.  They will also keep an investigation workbook, where they will plan all of their studio work, record ideas and inspiration, practice techniques, research artists, art movements, and culture, and engage in written self-reflection and critical analysis.  The semester grade is split 60/40 between studio work and the investigation workbook.  
Students who take this course should possess basic drawing skills and should be comfortable discussing and writing about their own art and the art of others.  Two gallery visits per semester will be required.  Students should be prepared to be challenged with open-ended projects that require critical and creative thinking.  

IB Visual Arts HL 2  
Second Year  
1.0 credit  
Course 02812  
(1 Honor Point for HL)  

IB Visual Arts SL 2  
Second Year  
1.0 credit  
Course 02802  

Grade 12  
Prerequisite: IB Visual Arts 1  
During year two, students will continue their exploration and development of art techniques in a broad range of stylistic approaches and media, using their investigation workbooks to explore art concepts, continue personal research, and exhibit critical thinking in both written and visual forms.  Students can expect to work more independently and will be working towards expressing a growing sophistication in their personal vision and voice as artists.  This course will culminate in preparation for and completion of the IB exam, which includes a portfolio of artwork.  

The following courses in video production are electives and do not earn English credit, nor are they NCAA approved.
To enroll in a level II World Language course, a student must receive a passing grade (D– or above) in the previous course.

- Chinese 1
- French 1
- German
- Spanish 1

- Chinese 2
- French 2
- German 2
- Spanish 2

- Chinese 3
- French 3
- IB French SL 1
- German 3
- Spanish 3
- IB Spanish SL 1

- French 4
- IB French SL 2
- German 4
- Spanish 4
- IB Spanish SL 2

- AP French
- AP German
- AP Spanish

To enroll in a level III, IV or AP World Language course a student must receive a “C” grade or better in the previous course or receive permission from an instructor.

- The following steps will be taken for a student receiving a “C-” or below in a level III, IV of AP World Language course at the semester:
  1. Teacher will meet with student to inform the student of the increased difficulty of the content in second semester.
  2. Teacher will contact the parent to inform the parent of the increased difficulty of the content in second semester.
  3. Student and parent will make a decision to continue with the current course or enroll in a different elective.
French regions is integrated into the conversational units.

French III is designed to increase students' writing and speaking skills:

1.0 credit

French III

on Paris.

course and will continue to study French culture, including a special unit

different language situations.  Considerably more writing than in the previous

Continuation of French I with emphasis on contextual learning in global

1.0 credit

French I

Emphasis is placed on using contemporary speech in a variety of family, school and social situations. Students will hear spoken French from tapes and CDs. Students will see how the French use a variety of gestures and physical movements to help them communicate by watching videotapes. The students will also develop basic writing skills. Difference between the French and American cultures are explored on a frequent basis.

French II

Continuation of French I with emphasis on contextual learning in global language situations. Considerably more writing than in the previous course and will continue to study French culture, including a special unit on Paris.

French III

French III is designed to increase students' writing and speaking skills through advanced composition and conversation. A cultural unit on French regions is integrated into the conversational units.

Chinese I (Mandarin) 1.0 credit  Course 05360

This course is designed to introduce students to the language, history, and culture of China. Emphasis in the first year is on vocabulary and conversation skills. The student will learn to function in an appropriate fashion in four linguistic skill areas: listening, reading, speaking and writing.

Chinese II (Mandarin) 1.0 credit  Course 05362

This course is a continuation of Chinese I. We will continue the study of the language, culture and history of China. Study of the characters, including the radicals, will be broadened. Students will extend their ability to function in a Chinese language setting with regard to the four skill areas: speaking, listening, reading and writing.

Chinese III (Mandarin) 1.0 credit  Course 05363

This course is a continuation of Chinese II. We will continue the study of the language, culture and geography of China. Study of the characters, including the radicals, will be broadened. Students will extend their ability to function in a Chinese language setting with regard to the four skill areas: speaking, listening, reading and writing.

Chinese IV (Mandarin) 1.0 credit  Course 05364

This fourth year course builds upon the language skills gained in Chinese III. The student will further develop knowledge of vocabulary, sentence patterns, the “pinyin” romanization system, and approximately 200 additional characters. Gain a deeper understanding of the geography and culture of Mainland China and the Chinese-speaking world. This is an online course.

French IV 1.0 credit  Course 05040

Conducted almost exclusively in French. Emphasis on oral and written communication, supplemented by readings of French history and the French masters. Contemporary texts and materials on France and its people are also used to augment the student’s knowledge of the country and its culture.

Advanced Placement French 1.0 credit, 1 Honor Point  Course 05050

Emphasis on oral communication, composition, literature, grammar and aural comprehension. The target language will be used exclusively in the class and students will be actively involved in the lessons. Successful completion of this course will prepare students to earn college credit through programs such as Advanced Placement and the College Level Examination Program.

IB French SL

Prerequisite: French 2 or Higher

First Year 1.0 credit  Course 05051

Second Year 1.0 credit  Course 05052

Students will communicate clearly and effectively in a range of situations, demonstrating linguistic competence and intercultural understanding. In these two year courses, students will use language appropriate to a range of interpersonal and/or cultural contexts to communicate. They will learn to understand and use language to express and respond to a range of ideas with accuracy and fluency. Students will understand, analyze and respond to a range of written and spoken contexts. They will also understand and use works of literature written in the target language of study.

German I 1.0 credit  Course 05060

In this introductory course, emphasis is placed on speaking, listening and writing of the German language. Considerable time is spent on drills and basic grammar. At the end of the first year, the student will be able to conduct a conversation on familiar topics with proper intonation. Cultural units and films will inform the student of the land and the people of Germany.

German II 1.0 credit  Course 05070

Develop the skills needed in order to understand, speak, read and write the German language. Read selections on the German people and culture, prepare a limited amount of free composition on selected topics, and study the fundamentals of German grammar by doing both oral and written exercises. Work with tapes in order to improve pronunciation and listening comprehension.

German III 1.0 credit  Course 05080

This course includes review and supplement of grammar. More emphasis is placed on reading of German literature, exposition, current events, etc. Survey materials in German culture and art are included as integral parts of the course. Conversation about and composition in the above areas, as well as in everyday and travel expressions, are largely in German.
German IV
1.0 credit  Course 05090
This course continues the study of German literature, composition and oral work. The class is conducted largely in the German language. Grammatical concepts are reviewed when necessary.

Advanced Placement German
1.0 credit, 1 Honor Point  Course 05100
In this fifth year course, the emphasis will be on oral communication, composition, literature, grammar and comprehension. The target language will almost exclusively be used in the class and students will be actively involved in the lessons. Course will prepare students to earn college credit through Advanced Placement and the College Level Examination.

Spanish I
1.0 credit  Course 05160
Designed to develop the speaking, listening, reading and writing skills in the Spanish language. Emphasis on building basic vocabulary, learning simple grammatical structures and speaking the language with the proper pronunciation and intonation. Study the geography, history and culture of the Hispanic world including cities in the U.S. with predominant Hispanic populations.

Spanish II
1.0 credit  Course 05170
Spanish II is a continuation of first year Spanish with emphasis on grammar and development of skills to understand, speak, read and write in Spanish. The geography, history and culture of the Hispanic world, including cities in the U.S. with predominant Hispanic populations are explored further.

Spanish III
1.0 credit  Course 05180
Students work to improve their pronunciation, acquire a greater vocabulary base for use in daily life and further develop their speaking and listening skills for advanced conversation. Course includes a review of grammatical principles with an emphasis on the subjunctive. Continue exposure to Hispanic culture by reading selections in Spanish and studying Hispanic art.

Spanish IV
1.0 credit  Course 05190
In Spanish IV, the Spanish language is spoken as much as possible. Grammatical concepts are reviewed and expanded for a more complete and comprehensive understanding of the language, providing a solid foundation for composition. Study a selection of Hispanic literature, artists and relevant cultural items.

Advanced Placement Spanish
1.0 credit, 1 Honor Point  Course 05200
Emphasis on oral communication, composition, literature, grammar and aural comprehension. The target language will almost exclusively be used in the class and students will be actively involved in the lessons. Successful completion of this course will prepare students to earn college credit through programs such as Advanced Placement and the College Level Examination Program.

IB Spanish SL
Prerequisite: Spanish 2 or higher
First Year  1.0 credit  Course 05201
Second Year  1.0 credit  Course 05202
Students will communicate clearly and effectively in a range of situations, demonstrating linguistic competence and intercultural understanding. In these two year courses, students will use language appropriate to a range of interpersonal and/or cultural contexts to communicate. They will learn to understand and use language to express and respond to a range of ideas with accuracy and fluency. Students will understand, analyze and respond to a range of written and spoken contexts. They will also understand and use works of literature written in the target language of study.
## Growth Programs

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These programs are available at P-CEP

ARTS & COMMUNICATIONS
Careers related to the Humanities, the Performing, Visual, Literary and/or Media Arts.
Art Concentration | Language Arts Concentration | World Language | Graphic Arts | Human Relations |
Journalism | Music Theory | Photoshop | Photography | Spreadsheet | Theater |
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Writing & Speech | Video Production | Computer Applications

BUSINESS, MANAGEMENT, MARKETING & TECHNOLOGY
Careers related to ALL ASPECTS OF Business including Accounting, Business Administration, and Finance.
Business Concentration | Math Concentration | AP Probability & Statistics | Computer Programming |
Entrepreneurship | Marketing | World Language | Graphic Arts | Human Relations | Photography |
Psychology | Sociology | Tech Today | Computer Applications

ENGINEERING / MANUFACTURING & INDUSTRIAL TECHNOLOGY
Careers related to the various Technologies necessary to Design, Develop, Install and Maintain Physical Systems.
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Electricity / Electronics | Engineering Drawing / CAD | World Language |
Psychology | Tech Today | Career & Tech

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Health Occupations | Human Relations | Psychology | Sociology | Speech and Writing

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Computer Classes | World Language | Human Relations | Living with Children | Parenting |
Psychology | Sociology | Human Services

NATURAL RESOURCES & AGRISCIENCE
Careers related to Natural Resources, Agriculture and the Environment.
Math Concentration | Science Concentration | Computer Classes | World Language | Human Relations

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The Board of Education shall comply with all Federal and State laws and regulations, as well as the requirements and regulations of the U.S. Department of Education, with regard to prohibitions against discrimination, including but not limited to the following: Title II, Title IV, Title VI, Title VII of the Civil Rights Act of 1964; Title IX of the Education Amendments of 1972; Section 504 of the Rehabilitation Act of 1973; the Age Discrimination Act of 1975; the Americans with Disabilities Act of 1990 and its implementing regulations, the Individuals with Disabilities in Education Act (IDEA) and its implementing regulations; the Michigan Mandatory Special Education Act; and the Revised Administrative Rules for Special Education. Plymouth-Canton Community School District is committed to a policy of non-discrimination because of gender, religion, race, color, national origin or ancestry, disability, age, marital status, and/or any other legally protected characteristics in employment, education or any program or activity for which the Board of Education is responsible and/or for which the Board of Education receives financial assistance from the U.S. Department of Education.

If any individual believes that he or she has been discriminated against or believes that the District or an employee of the District has inadequately applied the principles and/or regulations of any Federal or State law or regulation, or any requirement or regulation of the U.S. Department of Education, a complaint should be directed to the following coordinators:
Title II: Facilities Construction Manager
Title IV, VI, IX, 504-students, Special Education/IDEA, Director for Student Services
Title VII, 504-employee’s, Age Discrimination, ADA, Executive Director for Human Resources

All complaints and/or requests for accommodations should be directed to the persons specified above at 454 South Harvey Street, Plymouth, MI 48170, (734) 416-2701. All complaints will be handled in accordance with Board Policy and Administrative Guidelines.