



Plymouth-Canton Educational Park



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## **P-CCS Vision**

P-CCS will deliver an innovative educational experience which propels each student to excellence.

## **P-CCS Mission**

P-CCS will develop capable, involved citizens who recognize that they are citizens of the world, use critical thinking skills, and are lifelong learners.

## **P-CCS Beliefs**

We share with the larger community the responsibility of helping all students be successful.

-

All voices, experiences, opinions, and cultures within our community must be respected and valued.

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Excellence requires adaptability, flexibility, being open to new ideas, and taking risks.

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A variety of approaches to teaching is critical in helping students learn.

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Instructional strategies, methods, and materials must promote equity for all students.

# P-CEP 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 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
- Provision for OPTIONAL Independent Study—maximum of 1.0 credit
- Only one Independent Study is allowed per semester
- Seniors are not eligible for Independent Study credit toward graduation during the second semester of their senior year
- Students are limited to two Independent Studies while enrolled in high school

# Required Courses of Study

<b>4.0</b>	<b>ENGLISH LANGUAGE ARTS</b>
	English 9 (World Literature) English 10 (American Literature) 1 semester writing course AND 1 semester reading course in Junior year 1 semester writing course AND 1 semester reading course in Senior year Communications credit (see pg 27 for qualifying courses)
<b>4.0</b>	<b>MATH</b>
	Algebra I OR Algebra I Advanced Geometry OR Honors Geometry Algebra II OR Algebra II with Trig OR Honors Algebra II with Trig Math experience in Senior year <b>Applied Math:</b> Accounting I, Advanced Automotive Technology, Advanced Marketing, AP Computer Science Architectural and Computer Aided Design, Automotive Technology, Automotive Maintenance and Ownership, Automation & Robotics, Autobody Repair and Restoration, Electronics I, Electronics II, Engineering CAD I, II, III Finance and Investment, Honors Financial and Managerial Accounting, Hospitality and Culinary Arts: Exploration, Restaurant Operations: Hospitality and Culinary Arts, Advanced Restaurant Operations: Hospitality and Culinary Arts, Auto Paint, Intro to Computer Programming, Logic & Reasoning, Marketing, Marketing Management, Microsoft Excel, Physics, Honors Physics, AP Physics, Real Estate Essentials Business Academy Capstone
<b>3.0</b>	<b>SCIENCE</b>
	Physics OR Honors Physics Biology OR Honors Biology Chemistry OR Honors Chemistry
<b>3.0</b>	<b>SOCIAL STUDIES</b>
	World History OR AP World History US History OR AP US History Civics OR AP Government Economics OR AP Macroeconomics AND AP Microeconomics
<b>1.0</b>	<b>HEALTH and PHYSICAL EDUCATION</b>
	Health Personal Fitness
<b>1.0</b>	<b>VISUAL, PERFORMING, OR APPLIED ARTS</b>
	Any course, or combination of courses, in Visual Arts (p.58), Music and Dance (p. 43), or Applied Arts <b>Applied Arts:</b> Advanced Marketing, Advanced Video Production, Advanced Web Design, Architectural and Computer Aided Design Business Foundations and Technology, Comic Books and Graphic Novels, Contemporary Fashion & Design, Creative Foods and Nutrition, Creative Writing, Digital Media Arts, Drama and Speech, Drama II, III Engineering - CAD I, II, III, Fundamentals of Radio Broadcasting, Computer Graphics and Design I, II Honors Humanities , Hospitality and Culinary Arts (all 3 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
<b>2.0</b>	<b>WORLD LANGUAGE</b>
	World language level I World Language level II OR 1 additional credit of Visual, Performing, or Applied Arts OR Qualifying CTE course <b>Qualifying CTE course(s):</b> Automotive Technology AND Advanced Automotive Technology, Autobody Repair and Restoration, Health Occupations, Cyber Security, Educational Foundations, Computer Graphics and Design I AND II, AP Computer Science Principles AND Computer Science Essentials, Introduction to Computer Programming AND AP Computer Science, Marketing, Business Academy Marketing AND Business Academy Advanced Marketing: Sales and Service, Restaurant Operations: Hospitality and Culinary Arts, Business Administration Management and Operations (BAMO), Photoshop AND Web Design, Digital Multimedia, Engineering and CAD I AND Engineering and CAD II, Honors Financial and Managerial Accounting *Please note for University Bound students that some institutions prefer 2 years of a World Language for competitive admissions.
<b>4.0</b>	<b>ELECTIVES from any department</b>
	In addition to completing all of the requirements listed above..
<b>22.0</b>	<b>MINIMUM CREDITS REQUIRED FOR GRADUATION</b>

# Advanced Coursework

## Advanced placement (AP) Courses

AP 2D Art & Design Portfolio	AP Computer Science Java	AP Macroeconomics
AP 2D Art & Design Portfolio (digital)	AP English Literature & Composition	AP Physics
AP 2D Art & Design Portfolio (photo)	AP English Language & Composition	AP Probability & Statistics
AP Biology	AP Environmental Science	AP Psychology
AP Calculus AB	AP French	AP Spanish
AP Calculus BC	AP German	AP U.S. History
AP Chemistry	AP Government	AP World History
AP Computer Science Principles	AP Microeconomics	

## Honors Courses

Honors Algebra II	Honors Finance and Managerial Accounting	Honors Philosophy
Honors Biology	Honors Geometry	Honors Physics
Honors Chemistry	Honors Humanities	Honors Precalculus with Trigonometry
Honors Debate	Honors Modern Literature & The Arts	Honors Zoology
Honors Digital Art		

## International Baccalaureate (IB) Courses

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



# **General Information**

## 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](http://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](http://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.

## Academies @ 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 four 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.



## Arts Academy

The Arts Academy @ P-CEP is for those students - musicians, photographers, actors, painters, sculptors or dancers - who see the world from an artistic perspective. Highlights of the Arts Academy 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 @ University of Michigan, 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.

All Arts Academy students are encouraged to take one credit of Visual (p.58), Performing (p. 43), or Applied Arts each year of high school. Arts Academy Courses are listed on pg 65.

## Business Academy

The Business Academy is a program designed to educate and prepare students with a passion for business, and to develop business leaders in the ever-changing global economy. P-CEP Business Academy students will be placed on an innovative four-year academic pathway that will address College and Career Readiness skills. They will gain knowledge in this particular field of study, and meet all high school prerequisites for acceptance into competitive post-secondary institutions.

This program will empower students in the development of the key skills; critical thinking/problem solving, research, reading, writing, speaking/presenting, and teamwork, and include subsets of these skills, such as analyzing, reasoning, negotiating, and questioning. Rigorous courses will enable students to apply these skills while identifying how the material connects to other academic subjects. P-CEP Business Academy students will gain knowledge and skills that are relevant to a range of business careers.

Students will learn about roles, responsibilities, and career paths of specific professions. Students will be exposed to careers both in the classroom and through workplace visits. Seniors will engage in a service learning practicum that will enhance their experience in the Academy.

Business Academy Courses listed on pg 65

## International Academy

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

Highlights of the International Academy 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. IB exams are administered by IBO at an additional cost. Fee waivers are available for qualifying families. 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.

International Academy Courses listed on pg 68

## 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 @ P-CEP 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 their post-secondary experience.

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

STEM Academy Courses listed on pg 66

Updated information is maintained on the Park website at <http://www.pccsk12.com/pcep> and search "Academies at The Park."

# 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](http://gopccs.net)

## 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 counseling secretary or their counselor's online calendar.

The Counseling Department provides many services. Counselors may assist with 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

## 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. Eligible courses are academic in nature, and either not offered by P-CEP or unavailable to the student due to unavoidable schedule conflicts. Students must verify that the course meets outside the student's daily P-CEP schedule.

- To be eligible for credit through dual enrollment, the student must:
- Achieve a qualifying score in the relevant subject area on MME, PLAN, ACT, or PSAT readiness assessment
- Complete the Dual Enrollment Agreement form (via InformedK12) and submit to Pupil Accounting
- Register for the College Course and submit confirmation of registration to P-CEP Pupil Accounting within 10 days
- Complete the College Course and submit an official college transcript to P-CEP Pupil Accounting.

Deadlines for all new requests and course changes are firm.

First Semester – end of school day, Friday before Memorial Day

Second Semester – end of school day, Friday before Thanksgiving

## 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 Course Catalog are offered, sufficient enrollment in a course is necessary for the course to be scheduled.

# GPA Calculation on transcripts

At P-CEP, GPA is computed on a four-point scale that includes semester grades in all courses.

Students can use the chart to the right to convert letter grades to GPA points. Additionally, AP courses are weighted (add 1 honor point) when a student earns a "C" or higher in the class.

IB HL courses and IB Math SL year 2 are weighted (add 1 honor point) when a student earns a "C" or higher in the class.

4.0	A+/A/A-
3.0	B+/B/B-
2.0	C+/C/C-
1.0	D+/D/D-
0.0	E

## High School Students New to the District

See Student Enrollment 1, 2, 3 Information on the district website [www.pccsk12.com](http://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 Enrollment Information page on the district Web site at [www.pccsk12.com](http://www.pccsk12.com).

## Honors Courses

Honors courses offer a faster pace and deeper level of inquiry than the standard curriculum. A list of honor courses is available on pg 6.

## Independent Study

Juniors and/ or Seniors can apply for Independent Study. Students can obtain the Independent Study application form from their counselor, and must collaborate with the supervising teacher on the Independent Study proposal. Students may engage in no more than one Independent Study per semester. Students are limited to two Independent Studies while enrolled in high school, for a maximum total of 1.0 credits of Independent Study. Seniors are not eligible for Independent Study credit toward graduation during the second semester of their senior year.

## International Baccalaureate (IB) Courses

International Baccalaureate courses are offered for juniors and seniors in the International Academy. Students outside the academy can choose to take individual courses as space permits. All IB courses are two-year courses. Standard Level (SL) are similar to correlated AP courses/ exams in scope and volume of material covered. Higher Level (HL) courses go beyond the volume and scope of material covered in correlated AP courses/ exams. IB exams are administered by IBO at an additional cost to the student. Fee waivers are available for qualifying families. IB **HL courses** and IB Math SL year 2 are weighted (1 honor point) when a student earns a "C" or higher in the class.

## Michigan Merit Exam (MME)

Juniors take the MME each spring. Subject areas tested include: Math, Science, Reading, Writing, and Social Studies. The SAT suite of assessments are also administered to all 9<sup>th</sup>-11<sup>th</sup> grade students as part of the MME. Completing the MME and 11<sup>th</sup> grade SAT are District graduation requirements.

# Michigan Seal of Biliteracy

The Michigan Seal of Biliteracy recognizes high school graduates who exhibit language proficiency in English and at least one additional world language. The Seal may be awarded to any student receiving a high school diploma, a high school certificate of completion or a high school equivalency certificate and who has demonstrated Intermediate High proficiency on acceptable world language assessments.

The Michigan Seal of Biliteracy is designed to:

- Provide potential future employers with a method of identifying people with language and biliteracy skills
- Provide colleges and universities with a method to recognize and give credit to applicants for attainment of high level skills in multiple languages
- Prepare students with 21st century skills that will benefit them in the labor market and the global society

P-CCS students may apply for this recognition during their junior or senior year. The deadline to apply is March 1st (senior year). Please visit <https://tinyurl.com/P-CCSSealOfBiliteracy> to learn more about the Michigan Seal of Biliteracy and to complete the online application.

## 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. Students can obtain more specific information regarding the specific parameters required for approval of a Personal Curriculum from their counselor.

## Schedule Changes

The P-CEP master schedule is built from student course requests. For this reason, course requests are final after April 1<sup>st</sup>. During the course selection period, course requests as viewed in MISTAR Student Portal and Parent Portal are a confirmation of courses requested to be scheduled, and not an assurance that the requested courses will be scheduled, as irresolvable 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.

Students and parents are encouraged to communicate freely with counselors and members of the school staff throughout the course selection period.

Once the master schedule is complete and student schedules are confirmed, schedule 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 qualify for a schedule adjustment based on the above criteria can obtain a Schedule Change form from the Counseling office. Students who do not qualify for schedule adjustments under these 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 approval.

## Physical Education Waiver

A student may wish to substitute an extracurricular activity to waive the .5 Physical Education Graduation requirement.

The .5 credit does not apply toward the total graduation requirement. The student must complete the following criteria as outlined in the District guidelines:

- Complete two (2) seasons of a school sponsored extracurricular activity
- Meet two (2) performance objectives (1) skill, (1) behavioral under the direction of an extracurricular advisor, and;
- Meet three (3) fitness objectives through self-directed, independent study;

Students interested in waiving the required physical education graduation requirement must meet with their counselors to begin the waiver process. Students must complete the waiver before May 1st of their Junior year.

## Smaller Learning Communities

The goal of our 9<sup>th</sup> 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. 9th-grade students can select to be a part of an SLC where a team of two teachers (World History and World Literature) supports students academically and fosters connectedness with peers in a smaller environment 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. Students are mixed among their other classes rather than scheduled with the same group of students each hour. Teachers may plan integrated lessons and projects, confer regularly regarding student progress, and take part in assemblies and field trips. Project-based learning and cross-curricular instruction between World History and World Literature is a primary focus in this personalized, interdisciplinary approach to learning for freshmen.

## 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, services, and programs that allow each child to access the curriculum and transition into successful adult employment and/or post-high school education/training. There are several levels of instructional supports available to students with a disability while attending high school. These supports are provided through the IEP process. Students with and without an IEP are held to the standards for academic growth as defined by the Michigan Merit Curriculum.

## Summer School

Summer School runs for five weeks and typically begins one week after the regular school year ends. A variety of courses are offered for credit recovery or advancement during the summer. 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.

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. Summer School elective course offerings are to be determined annually. SUFFICIENT ENROLLMENT IS REQUIRED TO OFFER ALL CLASSES. 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 (NCAA). 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 any time 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.

The Parent Guide to Online Learning at <http://www.mivu.org> provides many helpful tools for evaluating whether a student has developed the characteristics associated with online learning success. 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. These tools provide a good framework for parents/guardians and students discussing the viability of online options.

Students who are interested in a **fully online program** should refer to our [Virtual Academy Course Catalog](#). Students who enroll in the Virtual Academy are making a year-long commitment to a fully online, mostly asynchronous experience. Not all of the courses available in the P-CEP Course Catalog are available in the Virtual Academy.

Students who decide to pursue online study for individual courses in the context of a mostly-in-person schedule, may select from the statewide catalog of online course titles available at <https://micourses.org/>. Counselors will assist students in evaluating whether a given course will be appropriate for the student's level, and/ or fulfill a graduation requirement for the student. Successful completion of an online course through Michigan Virtual, as part of the student's P-CEP schedule, will be reflected on a student's high school transcript as a **letter grade**, and **will** factor into their overall GPA.

For further information related to online courses, please contact your student's counselor. Online Learning Agreement and Online Course Request forms are available in the Counseling offices at each school. Students can see their counseling office for forms and relevant deadlines.



# **Course Descriptions by Department**

# CAREER AND TECHNICAL EDUCATION

## Automotive Technology

### Automotive Maintenance and Ownership

**0.5 credit**

**Course 13070**

Grades 9-12

Automotive Maintenance and Ownership 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 to how the eight systems work in a vehicle, how to purchase, insure, 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 during this course include; safe work habits, automotive history, basic tools and measurement knowledge, and basic automotive system fundamentals. If you are going to own a vehicle, this course is for you.

Course approved for Applied Mathematics credit.

### Auto Paint

**1.0 credit**

**Course 13050**

Grades 9-12

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.

Qualifies for Applied Arts or Applied Mathematics credit.

### Automotive Technology

**1.0 credit**

**Course 13060**

Grades 9-12

Automotive Technology 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.

Qualifies for Applied Mathematics credit.

### Advanced Automotive Technology

**2.0 credits (2 hour block)**

**Course 13010**

Grades 11-12

Prerequisite: Automotive Technology 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.

Qualifies for Applied Mathematics or 2nd year World Language credit

### Autobody Repair and Restoration

**2.0 credits (2-hour block)**

**Course 13080**

Grades 9-12.

Autobody Repair and Restoration 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.

Qualifies for Applied Mathematics credit.

Qualifies for 2nd-Year World Language credit

### Empowering Women in Automotive Technology

**0.5 credit**

**Course 13075**

Grades 9-12

Empowering women in automotive technology is designed to encourage students who may not traditionally pursue a career/own in automotive technology to learn about this field and eventually help grow into this career bringing their unique and valuable mindset and perspectives into the evolving world that is the automotive industry. The topics covered in this course are basic vehicle maintenance, minor vehicle repairs, introduction to how the eight systems work in a vehicle, how to purchase, insure, 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 during this course include; safe work habits, automotive history, basic tools and measurement knowledge, and basic automotive system fundamentals. If you are going to own a vehicle, this course is for you.

Course approved for Applied Mathematics credit.

### Electric Vehicle Design, Build, and Drive (Pilot Course)

**1.0 credit; 1 semester, 2 hour block**

**Course 13085**

Grades 9-12 The automobile represents a major socio-economic element in our lives and in the economy of our country. There are significant changes on the near horizon with the impact of the electric vehicle and other ecological friendly alternative vehicles making inroads to the consumer marketplace. With the specific growth of the electric vehicle it is imperative that automotive professionals and consumers alike invest intellectual capacity in this new and growing segment of the industry. The SWITCH Lab introduces students to the electric vehicle through the construction of a full size student built vehicle. The Switch incorporates primarily off the shelf automotive products along with a custom chassis to engage the student in a significant project, specifically the assembly of an electric vehicle they can eventually drive!!! In addition to overcoming the technical challenges of building and understanding the vehicle, students will learn the soft skills required to function in environments requiring team work, project management, communication, organizational skills and cooperation..

Qualifies for Applied Mathematics credit.



# Business Education

## Accounting I

**1.0 credit**

**Course 03010**

Grades 10-12

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.

Qualifies for Applied Mathematics credit. This course PLUS Honors Accounting qualifies for second-year World Language credit

## Honors Financial & Managerial Accounting

**1.0 Credit**

**Course 03025**

Grades: 10-12

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 decision-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.

Qualifies for Applied Mathematics credit. This course PLUS Accounting I qualifies for second-year World Language credit.

## Business Administration and Management

**1.0 credit**

**Course 03165**

Grades 10-12

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.

Qualifies for second-year World language requirement.

## Exploring Business

**0.5 credit**

**Course 03120**

Grades 9-10.

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.

## Business Foundations and Technology

**1.0 credit**

**Course 03145**

Grades 9-10

Students will be introduced to an entry-level understanding of business organizations and structures, management and leadership styles, marketing fundamentals, accounting and financial principles, production methods, and human resource management and diversity. Business technologies, including the Google Platform, Microsoft Office products, as well as the Adobe Suite will be utilized throughout each unit of instruction. Soft skills, which are key to success in the business world will also be embedded within the curriculum. This course is the 9th grade class in the Business Academy, but is open to non-academy 9th and 10th grade students as well.

Qualifies for Applied Arts credit.

## 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.

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.

Qualifies for Applied Mathematics credit.

## Real Estate Essentials

**0.5 credits**

**Course 03125**

Grades 11-12.

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. This course prepares students to take the licensing test at 18 years of age.

Qualifies for Applied Mathematics credit.

## Entrepreneurship

**0.5 credit**

**Course 03110**

Grades 11-12

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.

# Computer Science

**Sample Computer Science Schedule**

	Grade 9	Grade 10	Grade 11	Grade 12
First Hour	English 9--World Literature	American Lit/Writing	One semester writing course AND one semester literature course	One semester writing course and one semester literature course OR one year-long course
Second Hour	Algebra 1 or Advanced Algebra 1	Geometry or Honors Geometry	Algebra 2 or Algebra 2 with Trig or Honors Algebra 2	AP Computer Science (1.0 Applied Math)
Third Hour	World History or AP World History	US History or AP US History	PES or AP Macro & AP Micro & AP Gov	Logic & Reasoning (.5) Probability & Stats (.5)
Fourth Hour	Physics or Honors Physics	Biology or Honors Biology	Chemistry or Honors Chemistry	Physics, or AP Physics
Fifth Hour	Health (.5) PE (.5)	Robotics (.5) Electronics I (.5)	Introduction to Computer Programming (.5) Electronics II (.5)	Automation and Robotics (2.0)
Sixth Hour	Language Other Than English or Computer Science Essentials	Computer Science Principles	Web Design & Internet (.5) Photoshop (.5)	Cyber Security

## **Introduction to Computer Programming**

**0.5 credit**

**Course 08100**

Grades 9-12

This course teaches students algorithm design, problem solving, and applied mathematics through the use of the C++, JavaScript, Python, or other high-level programming language. The students will be introduced to the following essential components of programming: variables, arithmetic, conditional structures, iterative structures, subroutines, input/output, data structures, and object oriented programming. 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.

Qualifies for Applied Mathematics credit.

## **Computer Science Essentials**

**1.0 credit**

**Course 13167**

Grades 9-12

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.

This course PLUS Computer Science Principles qualifies for second-year World language credit.

## **Project Launch Roadmap**

**1.0 Credit**

**Course 11641**

Grades: 11-12

A practical, hands-on, approach to understanding business through immersion. Students will create a physical or digital product, as employees, through an established business. The course is centered on learning how a business brings new products to market, through the Agile Development method. While there will be entrepreneurial elements, the focus will be on the daily roles individuals have within an established business. Students will learn advanced ELA, math, and business standards and will be well-prepared for a position in a corporate setting by focusing on a specific role within the organization..

## **Advanced Placement Computer Science Principles**

**1.0 credit**

**Course 13165**

Grades 9-12

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, cyber security, and simulation. Work with Python, Scratch, PHP, MySQL, JavaScript, NAND/NOR gates, App Inventor, HTML5, and much more.

This course PLUS Computer Science Essentials qualifies for second-year World Language credit.

## **Advanced Placement Computer Science (AP Java)**

**1.0 credit**

**Course 08015**

Grades 10-12

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.

Qualifies for Applied Mathematics credit.

Qualifies for second-year World Language credit

## **Cyber Security**

**2.0 credit (2 hour block)**

**Course 13166**

Grades 10-12

This course provides students with an introduction to cyber security 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.

Qualifies for second-year World Language credit

# Computer Technology

**Sample Computer Specialist Schedule**

	Grade 9	Grade 10	Grade 11	Grade 12
First Hour	English 9--World Literature	American Lit/Writing	One semester writing course AND one semester literature course	One semester writing course and one semester literature course OR one year-long course
Second Hour	Algebra 1 or Algebra 1 Advanced	Geometry or Honors Geometry	Algebra 2 or Algebra 2 with Trig or Honors Algebra 2	*Intro to Computer Programming (.5)
Third Hour	World History or AP World History	US History or AP US History	PES or AP Macro & AP Micro & AP Gov	*AP Computer Science
Fourth Hour	Physics or Honors Physics	Biology or Honors Biology	Chemistry or Honors Chemistry	Cyber Security
Fifth Hour	Health PE	Computer Applications (.5) *Microsoft Excel (.5)	**Web Design & Internet (.5) **Photoshop (.5)	*Computer Science Principles
Sixth Hour	Language Other Than English	Any CTE course will fulfill the requirement for a second Language Other than English credit.	Computer Science Essentials	Business Administration and Management
*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.				

## Computer Applications I

**0.5 credit**

**Course 03070**

Grades 9-12

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 aligned to the Michigan and International Standards for Technology Education.

## Web Design and Internet

**0.5 credit**

**Course 03075**

Grades 9-12

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.

Qualifies for Applied Arts credit.

This course PLUS Photoshop qualifies for second-year World Language credit

**Microsoft Excel****0.5 credit****Course 03080**

Grades 9-12

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.

Qualifies for Applied Mathematics credit.

**Digital Multimedia****1.0 credit****Course 03072**

Grades 9-12

This year-long course combines both Photoshop and Web Design and Internet; the first semester will consist of the Photoshop course, and the second semester will be Web Design. Student who take this course are not eligible to take Web Design or Photoshop as individual classes. This course satisfies all requirements for the second-year foreign language credit. Descriptions for each course are listed in this section of the course catalog.

Qualifies for Applied Arts credit.

**Advanced Web Design****0.5 credit****Course 03077**

Grades 10-12

Prerequisite: Web Design &amp; Internet

In this course students build on the knowledge and skills gained in Web Design to create more complex websites. This course will begin with the application of advanced HTML tags and CSS, and will continue with students learning to use Adobe CS6 Fireworks, Flash, and Dreamweaver - a leading software package for creating professional-grade websites. The final project for this course is a web-based professional portfolio containing all of the student's previous Web and Advanced Web projects, along with other high school accomplishments. Upon completion of this course, students will possess marketable skills necessary to design and maintain websites as a career.

Qualifies for Applied Arts credit.

**Photoshop****0.5 credit****Course 03078**

Grades 9-12

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!

Qualifies for Applied Art credit.

This course PLUS Web Design and Internet qualifies for second-year World Language credit.

# Educational Foundations

## Introduction to Educational Careers

**0.5 credit**

**Course 13305**

Grades 10-11

Are you curious about careers in the field of education? Thinking about becoming a teacher or working with children in another capacity? This is the course for you! Introduction to Educational Careers will cover growth and development of children, as well as the many careers available in education and child care. Students will learn through coursework, observation of children, and by job shadowing numerous careers in education and child care. Students who take this course will begin work on a career-ready credential and satisfy the prerequisite for Educational Careers and Advanced Educational Careers. Successful completion of this pathway will result in either a Child Development Associate Credential (CDA), which will qualify the student as a lead teacher in a preschool program upon graduation, or a Michigan Youth Development Associate Credential (MI-YDA), which will qualify the student for above-entry-level positions and pay in out-of-school day programs and daycare. Pursuing either credential will provide the student a myriad of experiences with children.

## Educational Careers

**2.0 credits (2-hour block)**

**Course 13310**

Grades 11-12

Prerequisite: Intro to Educational Careers

This course is for students who have successfully completed **Introduction to Educational Careers**. Do you enjoy working with children? Thinking about a career in child care or education? This course will create many opportunities for you. In this course you will learn about meeting the needs of diverse students, how to plan and prepare lessons and what it really takes to become a successful child care professional or teacher. You will put your knowledge to work in classrooms and/ or out-of-school day activities and care facilities while continuing to work toward one of the following career-ready credentials: Child Development Associate Credential (CDA). Or Michigan Youth Development Credential (MI-YDA).

\*Students will need to present proof of a negative TB test per State licensing requirements. Successful completion of this pathway will result in either a Child Development Associate Credential (CDA), which will qualify the student as a lead teacher in a preschool program upon graduation, or a Michigan Youth Development Associate Credential (MI-YDA), which will qualify the student for above-entry-level positions and pay in out-of-school day programs and daycare. Pursuing either credential will provide the student a myriad of experiences with children.

## Advanced Educational Careers

**2.0 credits (2-hour block)**

**Course 13315**

Grade 12

Prerequisite: Educational Careers

This course requires instructor approval. Students in this course will continue their learning through work based experience while completing and meeting the final requirements for their chosen credential. \*Students will need to present proof of a negative TB test per state licensing requirements. Successful completion of this pathway will result in either a Child Development Associate Credential (CDA), which will qualify the student as a lead teacher in a preschool program upon graduation, or a Michigan Youth Development Associate Credential (MI-YDA), which will qualify the student for above entry level positions and pay in out of school day child care. Pursuing either credential will provide the student a myriad of experience with children. Successful completion of this pathway will result in either a Child Development Associate Credential (CDA), which will qualify the student as a lead teacher in a preschool program upon graduation, or a Michigan Youth Development Associate Credential (MI-YDA), which will qualify the student for above-entry-level positions and pay in out-of-school day programs and daycare. Pursuing either credential will provide the student a myriad of experiences with children.

# Engineering and Computer-Aided Design (CAD)

	Grade 9	Grade 10	Grade 11	Grade 12
<b>First Hour</b>	English 9--World Literature	American Lit/Writing	One semester writing course AND one semester literature course	One semester writing course and one semester literature course OR one year-long course
<b>Second Hour</b>	Algebra 1 or Algebra 1 Advanced	Geometry or Honors Geometry	Algebra 2 or Algebra 2 with Trig or Honors Algebra 2	Automation and Robotics (2-hr. block)
<b>Third Hour</b>	World History or AP World History	US History or AP US History	PES or AP Macro & AP Micro & AP Government	Automation and Robotics (2-hr. block)
<b>Fourth Hour</b>	Physics or Honors Physics	Biology or Honors Biology	Chemistry or Honors Chemistry	Electronics I Electronics II
<b>Fifth Hour</b>	Health PE	Technology Today Automobile Service and Maintenance	Drawing and Sketching Advanced Drawing and Sketching	Computer Graphics and Design I
<b>Sixth Hour</b>	CAD I	CAD II	CAD III	Architectural and Computer-Aided Design
*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.				

## Engineering - Computer Aided Design I

**1.0 credit**

**Course 13130**

Grades 9-12

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

Prerequisite: None.

Students will explore the Engineering Design Process in the creation of CAD drawings and designs. with the completion of student designed projects, students will further develop their skills through 3D printing, laser cutting/etching, waterjet processes, and more.

Students will use the shop to develop their projects and learn safety, quality, and the manufacturing processes. In addition, students will explore careers in engineering, construction, and architecture.

Certifications to Achieve: Autodesk Inventor Certified User

Qualifies for Applied Art or Applied Mathematics credit.

## Engineering - Computer Aided Design II

**1.0 credit**

**Course 13140**

Grades 10-12

Prerequisite: Engineering - Computer Aided Design I

Further exploring engineering, construction, and architecture; students in CAD II will continue to develop their design skills. Set up into (2) parts, Semester 1 students will focus on architecture through design concepts, 3D software, and design challenges. Semester 2, students will explore material sciences, civil engineering concepts, mechanical principles through project based learning. Students will

continue to gain experience with 3D printing , shop tools, laser cutting/etching, waterjet processes, CNC mill and CNC lathe operations. Lastly, students will be introduced to tooling lists, scheduling software, quality assurance checklists, and other business processes in engineering, construction, and architecture.

Qualifies for Applied Art or Applied Mathematics credit.

## Engineering - Computer Aided Design III

**1.0 credit**

**Course 13150**

Grades 11-12

Prerequisite: Engineering - Computer Aided Design 2

Further developing 3D CAD/architectural skills, students will develop projects based on provided client input. Students will explore construction types, building codes, design concepts, and architectural history. Students will additionally participate in design challenges that provide real-world applications. Construction cost estimating, scheduling, and field management will be explored. Additionally, students will be required to participate in community meetings in planning and approvals. Projects will be graded on a rubrics based system and will focus on accuracy and quality.

Qualifies for Applied Art or Applied Mathematics credit.

## **Architectural and Computer Aided Design**

**1.0 credit**

**Course 13030**

Grades 11-12

Prerequisite: Engineering - Computer Aided Design 2

This course is a graphical study of architecture. Students will study how current building materials and methods are used to produce the post-modern designs using computer-aided design. They will learn how to combine exterior features such as rooflines with doors, windows, and wall coverings. Proper sizes of rooms and location of plumbing fixtures, doors, and appliances will be included. Students will draw a complete set of house plans. These will include a plot, foundation, floor, plumbing, electrical, front and rear elevations and section details. Related study will include community planning and

building codes. Students will learn to calculate the amount of building materials needed, structural loads on beams and allowable joist spans. This project, a residential house plan, will incorporate the necessary information that architectural drawings contain.

By the end of the school year, the students should have a completed set of prints, and possibly a scale model or architectural rendering of their plan. The software the students will use is Autodesk Architecture 2018 and Autodesk Revit 2018.

Qualifies for Applied Art or Applied Mathematics credit.

## **Graphics**

### **Computer Graphics & Design I**

**1.0 credit**

**Course 13170**

Grades 9-12

This is a full year course that introduces the student to the fundamental skills and knowledge needed to understand graphic design. Computer skill and design are developed through a series of project-based assignments. Computer skills are honed using a wide range of computer software such as Adobe Photoshop, Illustrator, and InDesign. Projects are centered around both artistic design and business graphics. They include activities such as sketching, symbol/logo design, typography, illustration, magazines, CD layout, photo editing, t-shirt design, and screen printing.

Qualifies for Applied Art credit.

### **Computer Graphics & Design II**

**1.0 credit**

**Course 13180**

Grades 10-12

Prerequisite: Computer Graphics and Design I.

This is a full year course and students will continue to develop the skills and knowledge learned in Computer Graphic and Design 1. Students will expand their knowledge and skill levels using programs such as Adobe Photoshop, Illustrator, and InDesign. Emphasis on developing the creative skills to create designs intended for business, such as, promotional materials, books, business cards, posters, vinyl graphics, and garment printing. Students will gain a better knowledge of different printing processes, including the production of T-shirts from concept to the final printed design.

Qualifies for Applied Art credit.



# Health Science

## Health Occupations

**2.0 credits (2 hour block)**

**Course 13510**

Grades 11-12

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. This course cannot be taken during the same academic year as Medical Career 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

	Grade 9	Grade 10	Grade 11	Grade 12
<b>First Hour</b>	English 9--World Literature	American Lit/Writing	One semester writing course AND one semester literature course	One semester writing course and one semester literature course OR one year-long course
<b>Second Hour</b>	Algebra 1 or Algebra 1 Advanced	Geometry or Honors Geometry	Algebra 2 or Algebra 2 with Trig or Honors Algebra 2	Adv Restaurant Operations (2-hr. block) *** Or Restaurant Operations (2-hr. block) ***
<b>Third Hour</b>	World History or AP World History	US History or AP US History	PES or AP Macro & AP Micro & AP Government	Adv Restaurant Operations (2-hr. block) *** Or Restaurant Operations (2-hr. block) ***
<b>Fourth Hour</b>	Physics or Honors Physics	Biology or Honors Biology	Restaurant Operations (2-hr. block)*	Restaurant Operations (2-hr. block) ***
<b>Fifth Hour</b>	Health PE	Hospitality and Culinary Arts: Exploration (1 hr)***  Or  Elective	Restaurant Operations (2-hr. block)* Or Hospitality Management (1 hr)*** OR Hospitality and Culinary Arts: Exploration (1 hr)***	Restaurant Operations (2-hr. block) ***  **Note: Restaurant/ Adv Restaurant Operations can be taken for up to 4-hr block as a senior OR Hospitality and Culinary Arts: Exploration (1 hr)***
<b>Sixth Hour</b>	World Language	World Language Or Elective (suggestion: marketing 1 or Entrepreneurship)	Chemistry or Honors Chemistry	Hospitality Management (1 hr) ***

\*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.

**Notes:**

- Students do not have to take Hosp/Cul: Exploration before Restaurant Operations
- Restaurant Operations students must take one semester of 2/3 hr and one semester of 4/5 hr to complete curriculum

## **Hospitality and Culinary Arts: Exploration**

**1.0 credit**

**Course 13375**

Grades 10-12

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 provides students with industry sanitation ServSafe® training. This class qualifies for Hospitality and Culinary Arts Co-op credit.

Qualifies for Applied Art or Applied Mathematic credit.

## **Restaurant Operations: Hospitality & Culinary Arts**

**2.0 credits**

**Course 13380 and 13382**

Grades 11-12

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, ServSafe Nutrition license, as well as the Pro-Start Certificate of Achievement.

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.

Qualifies for Applied Art, Applied mathematics or 2<sup>nd</sup> year of World Language credit.

## **Advanced Restaurant Operations: Hospitality & Culinary Arts**

**2.0 credits**

**Course 13383**

Grades 11-12

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 a 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. ServSafe Nutrition license, as well as the Pro-Start Certificate of Achievement. ServSafe 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.

Qualifies for Applied Art, Applied mathematics or 2<sup>nd</sup> year of World Language credit.

## **Hospitality Management and Tourism**

**1.0 credits**

**Course 13370**

Grade 12

Have you ever considered a career as a General Manager? Director of Food and Beverage? Hotel, Casino, or Resort Manager? Would you love to travel the world? Come join one of the top hospitality management training programs in the country! This course is specifically designed to provide the skills and knowledge needed to enter a successful career in the Hospitality Management industry. Using the nationally recognized curriculum designed by the Michigan Restaurant and Lodging Association, and the American Hotel and Lodging Association, students gain hands-on experience in the areas of hospitality marketing, customer service, dining room service, in addition to creating schedules, and organizing real events that take into consideration all of the elements of event planning in this business. Students are trained in a commercial restaurant space, using the same equipment and technology found in the workplace. Students will also explore in depth the economic impact of hospitality and tourism on society and culture. They will also learn and discuss human resources, safety, and legal aspects of management in the hospitality industry. Students will also gain in-depth understanding and experience of the elements of a successful lodging, tourism, and recreation industries. In this project-based curriculum, students will utilize their new-found skills to create, organize, and host actual events within the community.

Qualifies for Applied Art, Applied Mathematics or 2<sup>nd</sup> year of World Language credit.

# Marketing

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

## Marketing

### 1.0 credit

### Course 03150

Grades 10-12.

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.

Qualifies for Applied Art or Applied Mathematics credit.

## Advanced Marketing

### 2.0 credits (2 hour block)

### Course 03030

Grades 11-12.

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.

DECA, co-curricular club is offered to student in this course.

Qualifies for Applied Art or Applied Mathematics credit.

## Marketing Management

### 2.0 credits (2 hour block)

### Course 03160

Grades 11-12.

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.

DECA, co-curricular club is offered to student in this course. Qualifies for Applied Art or Applied Mathematics credit.

# Technology Application

## Technology Today

**0.5 credit**

**Course 13220**

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

**0.5 credit**

**Course 13110**

Grades 9-12.

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.

Qualifies for Applied Mathematics credit.

## Electronics II

**0.5 credit**

**Course 13120**

Grades 9-12. Offered Semester 2.

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.

Qualifies for Applied Mathematics credit.

## Automation & Robotics

**2.0 credits (2 hour block)**

**Course 13040**

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.

Qualifies for Applied Mathematics credit.

# ENGLISH LANGUAGE ARTS

## Required: 4.0 credits

9th Grade	English 9 - World Literature
10th Grade	American Literature/Writing
11th Grade	One semester writing course and one semester literature course, or one year-long course
12th Grade	One semester writing course and one semester literature course, or one year-long course

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.**

9	English 9 - World Literature and Writing	
10	English 10 - American Literature and Writing	
11-12	<b>SEMESTER COMPOSITION</b>  Advanced Composition Creative Writing Honors Debate* Intermediate Composition Introduction to Journalism Advanced Journalism (S2 only) Professional Publications (S2 only) Public Speaking*	<b>SEMESTER LITERATURE</b>  Comic Books and graphic Novels Late British Literature Elements of Fiction Survey of Humanities Drama and Speech*
	<b>YEAR-LONG COURSES</b> AP English Language & Composition* AP English Literature & Composition* African American Literature* Honors Humanities* Honors Modern Literature and the Arts* IB Language and Literature HL* Multicultural Literature* Other Worlds of Science Fiction and Fantasy* Reading/ Writing Workshop 11/12* (referral only) 21 <sup>st</sup> Century Global Issues and Literature*	
	<div>ELECTIVE ONLY</div> <div>9-12</div>	
	Advanced Journalism (S1only) Drama II       Drama III English Structure and useage Fundamentals of Radio Broadcasting Interpersonal Communication Professional Publications (S1 only) Studies in World Drama I       Studies in World Drama II	

# Year-Long Courses

## English 9; 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.

## English 10; 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.

## AP English Language & Composition

1.0 credit, 1 Honor Point

Course 04065

Grades 11-12

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 AP English Language, some courses that can help prepare you for the exam are Debate, Late British Lit, Adv Comp, and Modern Lit & the Arts.*

Qualifies for Communication graduation requirement

## AP English Literature & Composition

1.0 credit, 1 Honor Point

Course 04060

Grades 11-12

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 AP English Literature, some courses that can help prepare you for the exam are Late British Lit, Adv Comp, and Modern Lit & the Arts.*

Qualifies for Communication graduation requirement

## African American Literature

1.0 credit

Course 04115

Grades 11-12

By studying diverse African American voices from the early 17th Century to Modern times, this course will provide students with a historical and thematic perspective on outstanding literary works by African-Americans. Selected genres include (but are not limited to) poems, speeches, short stories, plays, novels, autobiographies, and essays. Students will become aware of a writer's style and rationale for a given work, exploring texts from various perspectives. It is hoped that, through exposure to authors whose ideas and values reflect diverse backgrounds, students will appreciate the differences as well as the similarities among all people.

Qualifies for Communication graduation requirement

## Honors Humanities

1.0 credit

Course 04250

Grades 11-12

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 true? 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. Coursework will 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, and creative research projects. Students should expect to present and engage in collaborative projects with peers frequently.

Qualifies for Communication graduation requirement and Applied Arts credit

## Honors Modern Literature & The Arts

1.0 credit

Course 04120

Grades 11-12

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.

Qualifies for Communication graduation requirement

## **Multicultural Literature**

**1.0 credit**

**|Course 04125**

Grades 11-12

Texts are created by various cultures and subcultures, all reflecting distinct voices but many shared experiences. In this course, we examine how an individual voice, including our own, shapes our culture and society. The cultures studied include Native American, Latin American, African American, Asian American, Middle Eastern American, and students' own cultures. Through the study of diverse voices, the students of Multicultural Literature will work to become lifelong readers, writers, thinkers, and participants in their own experiences and the human experience.

Qualifies for Communication graduation requirement

## **Other Worlds of Science Fiction and Fantasy**

**1.0 credit**

**|Course 04365**

Grades 11-12

This year-long English course introduces students to a world of possibilities by reflecting on various "What if...?" questions that are often posed through science fiction and fantasy. Students will analyze and respond to a variety of literature and media resource interpretations which may include futuristic societies, post-apocalyptic worlds, alien life, time travel, space exploration, the morality of genetic modifications, the relationship between humans and machines, and the advancements of artificial intelligence.

Qualifies for Communication graduation requirement

## **21<sup>st</sup> Century Global Issues and Literature**

**1.0 credit**

**|Course 04355**

Grades 11-12

What do I believe, what issues are important to me, and how can I improve the world in which I live? This year-long English elective for Juniors and Seniors delves into pressing social and political issues shaping our world. We'll examine your personal values that matter most to you, and how you can contribute to positive global change. Through reading, research, and writing (expository, argumentative, rhetorical, and narrative), you'll cultivate your own informed perspective on critical topics, including, but not limited to, social justice, environmental challenges, technology, gender, race, and society. This course will challenge you to think critically, question your assumptions, and consider your role in creating a more just and equitable world.

Qualifies for Communication graduation requirement

## **IB Language & Literature HL**

**1.0 credit, 1 Honor Point**

**|Course 04001 – Year 1**

**1.0 credit, 1 Honor Point**

**|Course 04002 – Year 2**

Grades 11-12

"In this course, students study a wide range of literary and non-literary texts in a variety of media. By examining communicative acts across literary form and textual type alongside appropriate secondary readings, students will investigate the nature of language itself and the ways in which it shapes and is influenced by identity and culture. Approaches to study in the course are meant to be wide ranging and can include literary theory, sociolinguistics, media studies and critical discourse analysis among others." © International Baccalaureate Organization, 2005-2021

Qualifies for Communication graduation requirement

# **Semester Courses in Writing & Composition**

## **Advanced Composition**

**0.5 credit**

**Course 04010**

Grades 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, and 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.

## **Intermediate Composition**

**0.5 credit**

**Course 04260**

Grades 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.

## **Creative Writing**

**0.5 credit**

**Course 04150**

Grades 11-12

Students will express themselves imaginatively through a variety of prose and poetic genres. 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.

Qualifies for Applied Arts credit

## **Public Speaking**

**0.5 credit**

**Course 04330**

Grades 10-12

[Course Link](#)

Public speaking is a course designed for all students. The course will emphasize oral performance through a variety of speeches focusing upon writing, revising and editing. We incorporate the key processes of writing in developing oral communication. The student will gain valuable experience in learning to organize, prepare, deliver, listen to and evaluate speeches. They will learn the basic speech process which yields public speaking success. The student will also gain poise and confidence in the process of completing course assignments. College level development on researching, editing documents, and outlining valuable information from online resources are core skills refined within this course. Speech anxiety is common; this course will help students overcome fear by learning the preparation process in addition to multiple practice opportunities. Effective management of speech anxiety will be taught in the class. Note: A complimentary course for those with extreme speaking anxiety is Interpersonal Communication.

Qualifies for Communication graduation requirement



## Honors Debate

**0.5 credit**

**Course 04160**

Grades 11-12

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.

## Introduction to Journalism

**0.5 credit**

**Course 04280**

Grades 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 publishes 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**

Grades 11-12

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, university, or your counselor.* Not approved for English credit through NCAA

## Professional Publications (Yearbook Staff)

**Sem 1, 0.5 Elective Credit**

**Course 04055**

**Sem 2, 0.5 English Credit**

**Course 04057**

Grades 11-12

Both course numbers are required to take this year long course; students must have instructor permission to enroll in only Semester 2. The class produces the P-CEP yearbook. Students practice and polish writing, editing, design, photography, management, computer, research, teamwork, and communication 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. Check with the college, university, or your counselor.*

Qualifies for Applied Arts credit

Not approved for English credit through NCAA

# Semester Courses in Literature & Reading

## Elements of Fiction

**0.5 credit**

**Course 04380**

Grades 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.

## Late British Literature (1660-Present)

**0.5 credit**

**Course 04140**

Grades 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.

## Drama and Speech

**0.5 credit**

**Course 04170**

Grades 9-12

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.

Qualifies for Communication graduation requirement and Applied Arts credit

## Comic Books & Graphic Novels

**0.5 English credit**

**Course 04145**

**0.5 Art credit**

Grades 11-12

This course offers an introduction to analyzing popular culture through the graphic novel, as well as the opportunity to explore various artistic media to create your own personal comic. This course is designed to improve reading comprehension and analysis as well as illustration skills. Together, we will explore the ways meanings emerge in several celebrated texts and some emerging classics in the graphic novel/ comics genre. We will explore how graphic storytellers approach a wide variety of historical and contemporary issues, and apply what we learn to telling our own stories. This year-long course will move between the English and Art classroom where students will spend their time reading, writing, analyzing, and illustrating. Successful completion of this class results in .5 Arts credit and .5 English credit

Qualifies for Applied Arts credit

Not NCAA Approved for English Credit

## **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.

## **Elective Only English Courses**

### **Interpersonal Communication**

**0.5 credit**

**Course 04270**

Grades 11-12

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. Not approved for English credit through NCAA

### **English Structure and Usage**

**0.5 credit**

**Course 04220**

Grades 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.

### **Fundamentals of Radio Broadcasting**

**1.5 credit**

**Course 04520**

Grades 10-12

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.

Not NCAA Approved for English Credit

Qualifies for Applied Arts credit

## **Drama II**

**0.5 credit**

**Course 04208**

Grades 9-12

Prerequisite: Drama & Speech

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. Students are required to attend two Park Payers performances during the semester.

Not NCAA Approved for English Credit

Qualifies for Communication graduation requirement

Qualifies for Applied Arts credit

## **Drama III**

**1.0 credit**

**Course 04210**

Grades 10-12

Prerequisite: Studies in any one of the following courses with a passing grade of 85% (B): World Drama, Drama II, or Drama/Speech. Teacher approval required.

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.

Not NCAA Approved for English Credit

Qualifies for Communication graduation requirement.

Qualifies for Applied Arts credit

### **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. Studies in World Drama is designed for serious theater students who want 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.

### **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.

# 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 meet screening criteria and/or be approved by the Assistant Principal for English Language Arts.

## Reading / Writing Workshop 9

1.0 credit

Course 04411

Grade 9

Prerequisite: Meet screening criteria

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.

Not NCAA Approved for English Credit

## Reading / Writing Workshop 10

1.0 credit

Course 04413

Grade 10

Prerequisite: Meet screening criteria

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.

Not NCAA Approved for English Credit

## Reading / Writing Workshop 11/12

1.0 credit

Course 04414

Grades 11-12

Prerequisite: Meet screening criteria. 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.

Qualifies for Communication graduation requirement

Not NCAA Approved for English Credit

# FAMILY AND CONSUMER SCIENCE

## **Creative Foods and Nutrition**

**0.5 credit**

**Course 07040**

Grades 9-12

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.

Qualifies for Applied Art credit

## **International Foods & Nutrition**

**0.5 credit**

**Course 07045**

Grades 9-12

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.

Qualifies for Applied Art credit

## **Peer to Peer Connections: Foods**

**0.5 credit**

**Course 07105**

Grades 11-12

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 in the context of a foods course.

## **Peer to Peer Connections**

**0.5 credit**

**Course 07106**

Grades 11-12

Prerequisite: [Application](#) needed to apply. See your counselor

An elective course that provides general education students opportunities to support and model academic and social skills. Positive outcomes in the school experience of a peer with specific learning needs are promoted. There is a focus on leadership skills, understanding and adapting to individual differences, written, and verbal communication skills, modeling social experiences, and advocating for others. Neurotypical and neurodiverse students work together in an integrated, positive environment to promote socialization, independence, and strong friendship bonds that last throughout high school and beyond. The curriculum includes reflective journaling activities, multimedia content related to disabilities and inclusion, pre/post assessments, classroom participation with peers, and a final project. Time outside of the classroom may be required. This is a general elective course that awards credit as approved by the Michigan Department of Education and a grade to general education students.

## **Living on Your Own**

**0.5 credit**

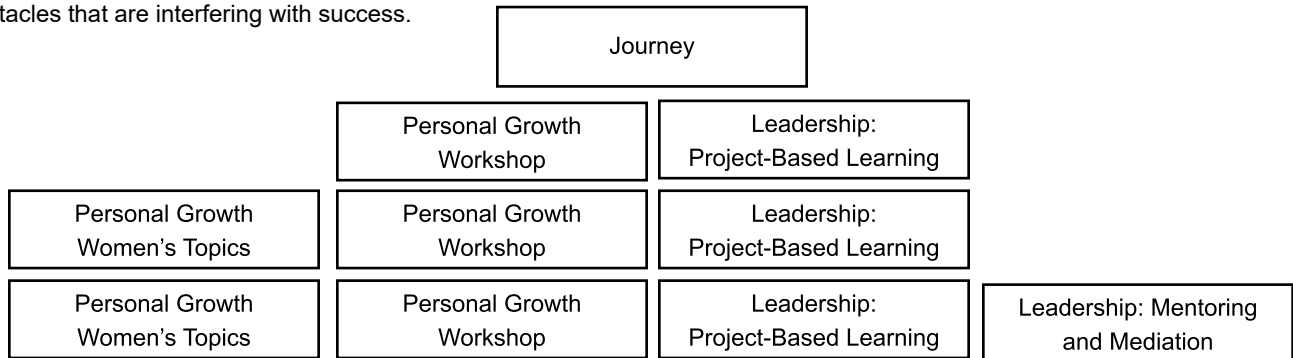
**Course 07120**

Grades 11-12

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.

# GROWTH PROGRAMS

Growth Programs at P-CEP empower students to build academic and personal growth skills in the following areas: Leadership, Goal-setting, Study Skills & Work Completion, Communication, Healthy Relationships, Stress Management, Organization & Time Management, Personal Responsibility & Decision-making. Recognizing the unique needs of each student, our staff works collaboratively with individuals, teachers, and families to address obstacles that are interfering with success.



## Journey Program

**1.0 credit**

**Course 01037**

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 growth goals AND they have permission from Journey staff to participate. To join the Journey Program, contact your counselor or Journey staff (204A - Plymouth).

exploration of one's own voice through creative and artistic expression.

## Educational Strategies

**0.5 credit**

Grades 10-12

**Course 01000 Fall**

**Course 01001 Spring**

This course is designed as a one-time intervention to provide academic support and skill development for students in the general education curriculum. Class time will be a mix of skill building in retrieval, comprehension, organization, communication, goal-setting, planning, and self-evaluation; and supported independent work. Students will be identified by counselor referral.

## Personal Growth Workshop

**0.5 credit**

Grade 10-12

**Course 01020 Fall**

**Course 01030 Spring**

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: Project-Based Learning

**0.5 credit**

**Course 01055**

Grades 10-12 A leadership development course built around students developing seven foundational leadership skills. This course is both for students who already demonstrate leadership qualities and are looking to enhance their skills, or students who desire to become leaders and are looking to gain and develop leadership qualities. Students learn and utilize the skills in the classroom community and eventually throughout the Park and the Plymouth-Canton community. Leadership skill development will be evaluated through community outreach initiatives developed and implemented throughout this semester-long course.

## Personal Growth Workshop: Women's Topics

**0.5 credit**

Grades 11-12

**Course 01060 Fall**

**Course 01070 Spring**

Women's Topics is a semester long course which focuses on personal growth through the teaching of skills which empower women to focus on personal strengths and gain and maintain social and emotional health. The class is a safe space to learn life skills and brainstorm solutions about challenges connected to being a woman at school, at work, at college, and in relationships. Fall semester is centered around the theme of defining and researching strong women in our history and lives. Spring semester is centered on the

# 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.

## Medical Career Foundations

### 0.5 credit

### Course 07520

Grades 9-12

Current enrollment in, or successful completion of Biology or Honors Biology is helpful for students in this course.

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.

## Health Occupations

### 2.0 credits (2 hour block)

### Course 13510

Grades 11-12

Qualifies as 1.0 science-related elective credit.

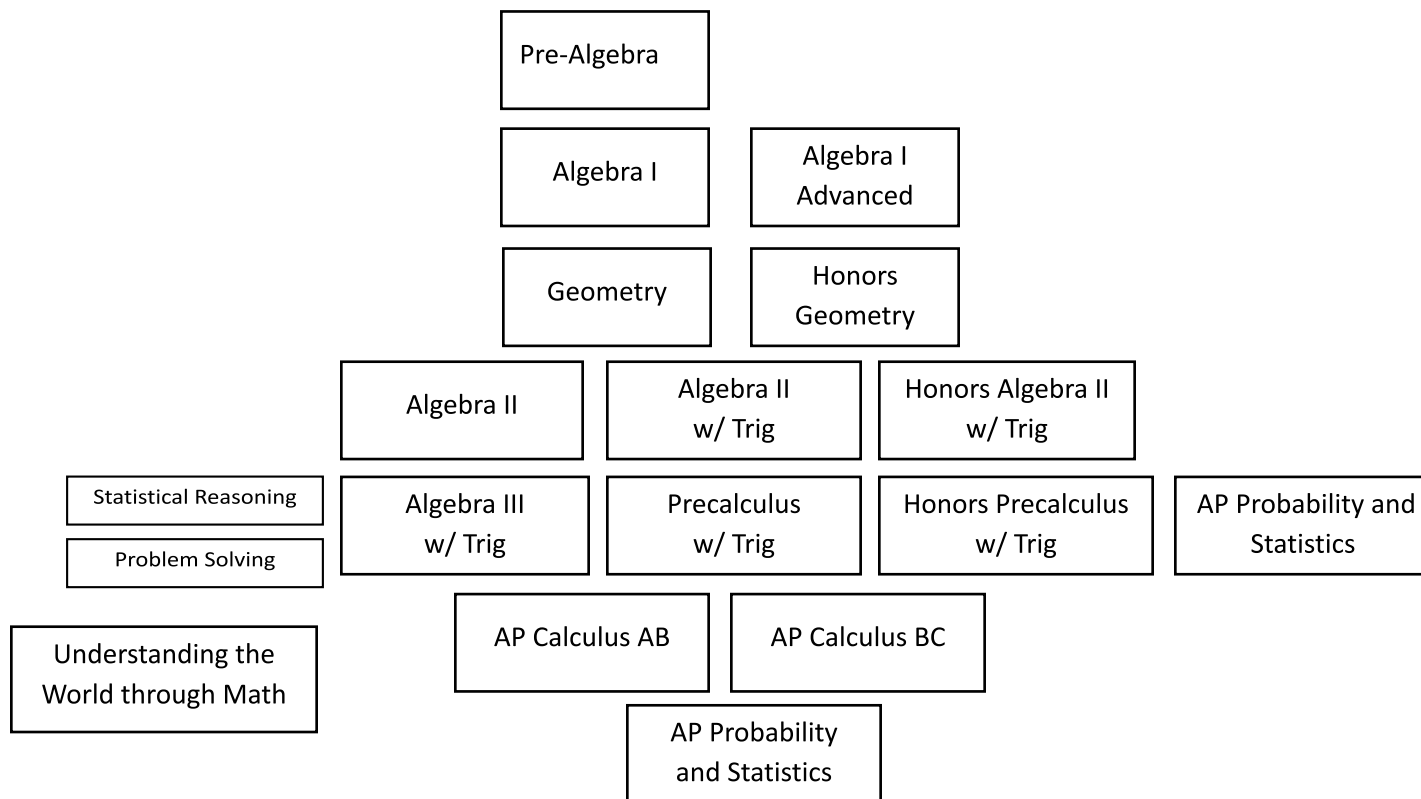
Prerequisite: It is recommended that students who enroll in this course have a strong interest and aptitude for science. Eligible students should have earned a C or better in their previous Biology class.

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.

# MATHEMATICS



## 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

## **Pre-Algebra**

### **1.0 credit**

### **Course 08025**

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 I**

### **1.0 credit**

### **Course 08035**

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 Functions, Linear Relationships, Scatter Plots, Linear Systems, Linear Inequalities, Shapes of Algebra, Piecewise Functions, Polynomials, Quadratic Functions, Quadratic Equations, Exponential Functions, and Data and Statistics. A TI-84+ Graphing Calculator is recommended for use.

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

## **Algebra I Support**

### **1.0 credit**

### **Course 08400**

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 I - Advanced**

### **1.0 credit**

### **Course 08039**

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 Functions, Linear Relationships, Scatter Plots, Linear Systems, Linear Inequalities, Shapes of Algebra, Piecewise Functions, Polynomials, Quadratic Functions, Quadratic Equations, Exponential Functions, and Data and Statistics. A TI-84+ Graphing Calculator is recommended for use. You will not receive credit for both this course and Algebra 1

## **Geometry**

### **1.0 credit**

### **Course 08045**

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, Transformations, Introduction to Proof, Congruence, Quadrilaterals, Connections to Algebra, Similarity, Trigonometry, Circles, and 3-Dimensional Figures. 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**

### **1.0 credit**

### **Course 08450**

Grade 10-12

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**

### **1.0 credit**

### **Course 08048**

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 The Language of Geometry, Transformations, Reasoning and Proof, Quadrilaterals, Connections to Algebra, Congruence and Proofs, Quadrilaterals, Similarity, Trigonometry, Circles, 3-Dimensional Objects. A TI-84+ Graphing Calculator is recommended for use.

Note: You will not receive credit for both this course and Geometry.

## **Algebra II**

### **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 Linear and Absolute Value Functions, Quadratic Relations, Polynomial Functions, Radical Functions, Sequences and Series, Rational Functions, Exponential and Logarithmic Functions, Probability, Statistics, Inverse Functions, 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 II 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 on 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 II 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 Absolute Value Functions, Quadratic Relations, Polynomial Functions, Rational Functions, Radical Functions, Inverse Functions, Logarithmic and Exponential Functions, Sequences and Series, Probability, Statistics and Trigonometry. 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 II 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 Absolute Value Functions, Quadratic Relations, Polynomial Functions, Rational Functions, Inverse Functions, Radical Functions, Logarithmic and Exponential Functions, Sequences and Series, Probability, Statistics and Trigonometry. 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 III 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.

## **Understanding the World through Mathematics**

**0.5 credit**

**Course 08195**

Grade 11-12

How many times have you asked "When will I ever use this?" in a math course? Math can often feel irrelevant to what is happening outside the classroom, but the reality is math is one of the most powerful and useful tools we have to better understand our world. In this course you will be asked to look at current events and topics that affect our society and culture through a mathematical lens. Using history as a guide, and data and mathematical practices as instruments, you will walk away from this course having challenged your views and developed a better understanding of our world.

## **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 one semester 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 This course

prepares students to take the Advanced Placement Calculus BC exam in the spring in order to attempt to earn two semesters of college credit. Successful completion prepares students for enrollment in Calculus III at college or university. Alternatively, students may enroll in AP Probability and Statistics as a subsequent math course.

## **IB Mathematics Applications & Interpretations (formerly math studies) SL**

**First Year 1.0 credit**

**Course 08201**

**Second Year 1.0 credit**

**Course 08202**

IB Mathematics Applications and Interpretations 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.

## **IB Mathematics Analysis and Approaches SL**

**First Year 1.0 credit**

**Course 08211**

**Second Year 1.0 credit, 1 Honor Point**

**Course 08212**

IB Mathematics Analysis and Approaches 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 Analysis and Approaches HL**

**First Year 1.0 credit, 1 Honor Point**

**Course 08221**

**Second Year 1.0 credit, 1 Honor Point**

**Course 08222**

IB Mathematics Analysis and Approaches 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

# MULTILINGUAL LEARNERS

Multilingual Learner courses offer targeted instruction and learning opportunities tailored for those who are new to learning English and face challenges in their academic performance due to the process of acquiring the English language. The English course levels for English Language Learners (ELs) are in accordance with the Michigan English Language Proficiency Standards, which also define the objectives for these learners.

## English for ELs 1a Language Development

**1.0 credit**

**Course 05411**

English for MLLs Level 1A is specifically designed for Newcomer MLLs, defined as those students who have been classified as an ML for one year or less, with an English proficiency level of 1. The primary goal is to provide essential language skills and cultural understanding to facilitate a smooth transition into an American school environment.

## English for ELs 1b Reading & Academic Strategies

**1.0 credit**

**Course 05412**

English for MLLs Level 1B is designed to provide multilingual learners with foundational skills to develop their proficiency in listening, speaking, reading, and writing in English. This course is tailored for students who have limited or no prior experience with the English language. Students will develop basic oral communication skills for everyday situations. Students will also be introduced to fundamental reading strategies to comprehend simple texts, and will work to expand vocabulary through reading various types of texts, including short stories, articles, and other level appropriate passages. As they learn fundamental writing skills such as punctuation, grammar, and sentence structure, students will acquire the ability to compose brief compositions and simple paragraphs.

## English for ELs EL Communications

**1.0 credit**

**Course 05400**

Prerequisite: Demonstrated skill competencies described in English for ELs 1a. (Two-course block including Language Development & Reading and Academic Skills).

This course is designed to provide targeted support with oral language development. Students will actively explore listening and speaking domains to enhance proficiency in those areas.

## English for ELs 2b Reading and Academic Strategies

**1.0 credit**

**Course 05422**

Prerequisite: Demonstrated skill competencies described in English for ELs 1b. (Two-course block including Language Development & Reading and Academic Skills).

English for MLLs Level 2 course builds upon the foundational skills acquired in English for MLLs Level 1, aiming to further develop English language proficiency in listening, speaking, reading, and writing. This course is designed for students who have a basic understanding of English and are ready to expand their language skills. This level focuses on improving students' listening comprehension abilities in various contexts, such as academic settings and everyday interactions. Additionally, it aims to further build their speaking skills by encouraging them to engage with more complex spoken content. Students will continue to improve reading comprehension through the analysis of more complex texts, including short stories, articles, and simple narratives, and will develop critical thinking skills by discussing and interpreting texts. Writing proficiency will be expanded by composing longer and more structured paragraphs which focus on sentence variety, verb tenses, and grammatical accuracy for the context.

## English for ELs 3 Reading & Academic Strategies

**1.0 credit**

**Course 05432**

Grades 11-12

Prerequisite: Demonstrated skill competencies described in English for ELs 2.

This course is designed for 11th-12th grade students who have a strong foundation in English and are ready to advance their language skills to a more proficient level. This course focuses on refining listening, speaking, reading, and writing abilities with an emphasis on academic language and critical thinking. In this course students will develop advanced listening comprehension skills for academic lectures, presentations, and discussions. This course also aims to cultivate critical reading abilities, encompassing the analysis, and interpretation of various genres, while enhancing writing competence by emphasizing coherence, cohesion, and sophisticated language use in the composition of essays, research papers, and other academic genres.

## EL Content & Language Support

**1.0 credit**

**Course 05400 & 05402**

The Content & Language Support Classes are designed to provide targeted assistance to students who are in the early stages of learning English (Levels 1 and 2). These courses focus on building foundational language skills essential for success in mainstream coursework across various academic content areas.

# MUSIC AND DANCE

## Ensemble 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. Students are placed in the ensemble courses appropriate to their skill set (overall musicianship) and ensemble instrumentation needs. If an assessment does not take place students will be placed in the entry level course based on instrumentation i.e., Concert Band (Woodwinds), or Concert Band (Brass/Percussion).

### Concert Band (Percussion)

**1.0 credit**

**Course 09160**

Instruments: Percussion

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. Students are required to participate in rehearsals and performance opportunities outside of the school day that support and extend learning in the classroom.

### Concert Band (Brass and Woodwinds)

**1.0 credit**

**Course 09165**

Instruments, Flute, Clarinet, Bass Clarinet, Oboe, Bassoon, Saxophone, Trumpet, French Horn, Trombone, Euphonium, Tuba

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. Students are required to participate in rehearsals and performance opportunities outside of the school day that support and extend learning in the classroom.

### Symphony Band

**1.0 credit**

**Course 09030**

Instruments: Woodwind, Brass, Percussion

Prerequisite: Audition and permission of instructor.

This intermediate 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. Students are required to participate in rehearsals and performance opportunities outside of the school day that support and extend learning in the classroom.

### Chamber Winds

**1.0 credit**

**Course 09156**

Instruments: Woodwind, Brass, Percussion

Prerequisite: Audition and permission of instructor.

This advanced intermediate 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. Students are required to participate in rehearsals and performance opportunities outside of the school day that support and extend learning in the classroom.

### Wind Ensemble

**1.0 credit**

**Course 09120**

Instruments: Woodwind, Brass, Percussion

Prerequisite: Audition and permission of instructor.

This advanced 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. Members of the Wind Ensemble will participate in Full Orchestra with Members of the Symphony Orchestra. The collegiate level of the literature programmed for this ensemble requires extensive out-of-school practice. Students are required to participate in rehearsals and performance opportunities outside of the school day that support and extend learning in the classroom.

## **General Orchestra**

**1.0 credit**

**Course 09065**

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

## **Concert Orchestra**

**1.0 credit**

**1.0 credit**

Prerequisite: Previous experience playing a stringed instrument.  
Instruments: Violin, Viola, Cello, Double Bass  
The Concert Orchestra is open to beginning and developing string players. This class will focus on developing playing techniques including shifting, vibrato, and standard orchestral bowings. This ensemble performs a varied repertoire for string orchestra. All musicians in this ensemble have a drive to grow their skill on their instrument and enjoy making music with their peers. This ensemble performs four major concerts throughout the school year in the Salem High School Auditorium. Other performance opportunities include playing in the Pit Orchestra for the annual musical, performing with the P-CEP Rock Orchestra, and participation in MSBOA Solo & Ensemble Festival.

## **Symphony Orchestra**

**1.0 credit**

**Course 09130**

Prerequisite: Audition and permission of Instructor.  
Instruments: Violin, Viola, Cello, Double Bass  
The Symphony Orchestra performs a varied repertoire of challenging string orchestra and full orchestra literature. All musicians in this ensemble have demonstrated a strong grasp of the fundamentals appropriate for their instrument, thrive on challenge, have a strong sense of musicianship, maintain a high standard of excellence, and wish to pursue professional-level literature. Members of the Symphony orchestra will participate in Full Orchestra with members of the Wind Ensemble. This ensemble performs four major concerts throughout the school year in the Salem High School Auditorium. Other performance opportunities include playing in the Pit Orchestra for the annual musical, performing with the P-CEP Rock Orchestra, and participation in MSBOA Solo & Ensemble Festival.

# **Ensemble 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.

## **Bravo! (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.

## **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.  
The students may perform in concerts throughout the year, including after school, evenings, and weekends.

## **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.

## **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.

## **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.

## **Non-Ensemble 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 bi-weekly.

### **Piano Studies**

**1.0 credit**

**Course 09010**

Grade 10-12

Students of all levels of Piano Proficiency will develop personal goals in Music Theory, scales, chords and arpeggios, and selected repertoire in various styles appropriate to their skill level. Students will read music (traditional notation, treble and bass clef). Students work in small lesson groups and perform for each other bi-weekly

### **Music Theory**

**0.5 credit**

**Course 09080**

Grades 10-12

Prerequisite: Students should have some background in vocal or instrumental music performance and be able to read standard notation at an intermediate level. 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.

This course does not qualify for Applied Arts graduation credit

### **Evolution of Music**

**0.5 credit**

**Course 09085**

Grades 9-12

Students will learn basic music theory while studying how music changes over time and is influenced by cultural, historical, and societal events. Students will explore how the elements of music (melody, harmony, rhythm) react to global changes in society and technology. Upon completion of this course students will have a greater appreciation for how music is constructed, and how music impacts and reflects the world. Students will complete and present

projects about music genres of their choice. This course is appropriate for students with any level of prior music knowledge.

### **Soundscapes - Composing and Arranging**

**0.5 credit**

**Course 09086**

Grades 10-12

Students will explore the elements of music and complete composition and arrangement projects through traditional means and online digital audio platforms. Learning activities include hands-on music making, collaborative work, and creating new music on digital platforms. Students will present their digitally created music with their classmates. This course is appropriate for students with any level of prior music knowledge.

### **IB Music SL**

**1.0 credit**

**Course 09201 Year 1**

**1.0 credit**

**Course 09202 Year 2**

### **IB Music HL**

**1.0 credit, 1 Honor Point**

**Course 09211 Year 1**

**1.0 credit, 1 Honor Point**

**Course 09212 Year 2**

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.

Completion of IB Music HL includes a solo senior recital

## **Fine Arts Dance Classes**

### **Artistic Dance I**

**0.5 credit**

**Course 10112**

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 II**

**0.5 credit**

**Course 10113**

Grades 9-12

Prerequisite: Artistic Dance I or audition and permission of instructor. 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.

# PHYSICAL EDUCATION

## Personal Fitness

**0.5 credit**

**0.5 credit**

**0.5 credit**

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 individual goals. Students will participate in many activities that will improve their social development, holistic fitness, agility, coordination, speed, strength, and cardiovascular fitness.

**Course 10072**

**Course 10072G**

**Course 10072B**

**Co-ed**

**Females only**

**Males only**

## Basketball

**0.5 credit**

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.

**Course 10050**

## Basketball - Girls

**0.5 credit**

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. MHSAA Girls regulations will be followed.

**Course 10055**

## Combination Racquets

**0.5 credit**

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, walleyball and racquetball. Each activity is planned for seasonal participation to allow the student to either be outside or inside.

**Course 10060**

## Dance and Rhythmic Movement

**0.5 credit**

Grades 9-12

This course is designed for all levels of dance experience from beginners to advanced. Dances such as hip-hop, contemporary, lyrical, jazz, cultural dances, ballet positions, tap, and a variety of rhythmic movements and flexibility exercises may be taught on student interest. Students will have the opportunity to apply the skills taught and their knowledge while choreographing and teaching a dance routine on a voluntary basis.

**Course 10110**

## Football Techniques

**0.5 credit**

**0.5 credit**

**0.5 credit**

Grades 9-12. Offered Semester 2.

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.

**Course 10071 Canton**

**Course 10069 Plymouth**

**Course 10070 Salem**

## Advanced Football Techniques

**0.5 credit**

**0.5 credit**

**0.5 credit**

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, and resistance training.

**Course 10035 Canton**

**Course 10029 Plymouth**

**Course 10030 Salem**

## **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 Skills & Conditioning**

**0.5 credit**

**Course 10140**

Grades 9-12

This course will allow students to develop skills, conditioning and compete in the game of soccer. This class will start with an orientation to the basic concepts of the game through drills and mini games. Skill development and conditioning will be done continually leading to a proper background to participate and compete in games. Time will also be spent on general strength and cardiovascular conditioning leading up to a class tournament. Recommended for 10th -12th Grade students who have some basic soccer skills.

## **Advanced Tennis/Conditioning**

**0.5 credit**

**Course 10180**

Grades 9-12

This is a class for students with above average proficiency in tennis, who are interested in improving skill and strategies in tennis through competition geared to tournament play in singles and doubles. Included in this class will be units devoted to various other racquet sports. A strong emphasis will be placed on competition and conditioning through aerobic and weight training..

## **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.

## **Wrestling**

**0.5 credit**

**Course 10200**

Grades 9-12

This course will be an introduction to the fundamentals of three disciplines of wrestling - Freestyle, Greco-Roman, and Folkstyle amateur wrestling. The course content will include a discussion of the rules and regulations as determined by the National Federation of State and High School Athletic Association and the Amateur Athletic Union and USA Wrestling, as well as providing instructions on the basic stances, holds, take-downs, escapes, counters, and strategy of competitive wrestling. Recognized safety procedures and practices will be observed to prevent accidents in wrestling. The purpose of wrestling at this level will include the development of physical fitness and strength, protective skills, and self-confidence. Lifting and running will be incorporated into the program as well.

## **Volleyball**

**0.5 credit**

**Course 10045**

Grades 9-12

This class is designed for students who want to learn and develop skills in volleyball including forearm pass, overhead pass, approaches, blocks and serve. Emphasis will also be placed on conditioning, drills, team offense and defense, strategy, rules and tournaments. Individual and team fundamentals will be taught through lectures and demonstrations. Students will also participate in various games related to volleyball...

## **Weight Training & Conditioning**

**0.5 credit**

**Course 10080**

Grades 9-12

This course is designed to provide students with the opportunity to develop total physical fitness and overall development of muscular strength and improved physical appearance. Various weight lifting and cardiovascular training will be utilized. This course includes programs designed to meet the needs of both male and female students. The development of the muscular system can be accomplished by utilizing the weight machines, barbells, dumbbells, isotonic and isometric exercise, and various forms of cardiovascular training, such as plyometrics, jogging and stretching.



**Yoga and Pilates****0.5 credit****Course 10117**

Yoga, Pilates, Body Sculpting, stretching and relaxation techniques may be taught in class. This course is designed for students interested in improving their mental health, flexibility, body toning, strength, balance, coordination, and posture. Fitness concepts such as full range of motion, exhibiting proper form techniques, relaxation techniques, and performing appropriate breathing techniques will be stressed throughout the semester. Students may have the opportunity to apply the skills taught and their knowledge while developing their own yoga pose, salutation, and routine.

**Sports Officiating****0.5 credit****Course 10119**

The Sports Officiating course is designed to empower students with the knowledge and skill necessary to become sports officials. Students will have the opportunity to apply what they have learned through hands on experience and will officiate their peers during in-class athletic competitions (and other Physical Education department electives when available.) Students will learn the rules and regulations for a variety of sports through the MHSAA/NFHS handbooks. Students will learn the process to become a registered MHSAA Official.

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

# SCIENCE

Physics	Honors Physics
Biology	Honors Biology
Chemistry	Honors Chemistry

AP Biology, AP Chemistry, AP Environmental Science, AP Physics, Astronomy, Ecology, Forensic Science I & II, Honors Zoology, IB Biology HL, IB Chemistry HL, IB Physics HL

**Note: Students who are interested in taking more than one Science course in a given year should carefully check the prerequisites in the course descriptions.**

# Core Science Courses

## Physics

1.0 credit

Course 11130

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.

## Honors Physics

1.0 credit

Course 11135

Prerequisites: Successful completion of Advanced Algebra or Algebra 1 with a B or higher.

This is a rigorous course that requires students to go further in-depth than physics. It is intended for students who plan to enter a science or technical field of study in college. Honors 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. Honors 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. Honors Physics meets the State of Michigan graduation requirements.

**NOTE:** Students selecting a course in physics may elect either Physics or Honors Physics. Credit earned in Honors Physics excludes the student from earning credit in Physics.

## Biology

1.0 credit

Course 11030

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

This is a rigorous 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. Good organizational, reading and study skills are essential for success 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.

## Chemistry

1.0 credit

Course 11060

Chemistry is a 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. Chemistry 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. Chemistry will prepare students for upper level science courses and meets the State of Michigan graduation requirements.

## Honors Chemistry

1.0 credit

Course 11050

Prerequisites: Successful completion of Advanced Algebra or Algebra 1 with a B or higher.

This is a rigorous course that requires students to go further in-depth than chemistry. It is intended for students who plan to enter a science or technical field of study in college. Honors 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. 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. Honors Chemistry meets the State of Michigan graduation requirements.

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

# Elective Science Courses

## Advanced Placement Biology

**1.0 credit, 1 Honor Point**

**Course 11015**

Prerequisites: Successful completion of Biology or Honors Biology. 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, evolution, interrelationships in the ecosystem, and more. 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, biochemical fields, or other scientific pathways are well served by this course.

## Advanced Placement Chemistry

**1.0 credit, 1 Honor Point**

**Course 11045**

Prerequisites: Successful completion of Chemistry or Honors Chemistry.

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.

## Advanced Placement Environmental Science

**1.0 credit, 1 Honor Point**

**Course 11085**

Prerequisites: Successful completion of Biology/Honors Biology and Chemistry/Honors Chemistry. Students may take Chemistry or Honors Chemistry 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."

## Advanced Placement Physics

**1.0 credit, 1 Honor Point**

**Course 11180**

Prerequisite: Successful completion of Physics or Honors Physics. 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 a 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.

## Astronomy

**0.5 credit**

**Course 11010**

Prerequisite: Successful completion of Physics or Honors Physics. 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, science and space center.

## Ecology

**0.5 credit**

**Course 11080**

Prerequisite: One year of Biology/Honors Biology. Ecology is a course where students are actively involved in observing the natural world. Outdoor and indoor activities provide students with a basic understanding of the connections between living organisms and their physical environment. In this course, students will study nature, specifically related to plant and animal species of Michigan and their interrelationships in Michigan ecosystems. The concept of sustainability will be an underlying thread in all topics. Students will learn about the dynamics between the living and nonliving world, as well as, the influences of humanity on these local systems. The goal for students is to walk away with a clear, personal understanding of their own views and values regarding sustainability and the natural world.

## **Forensic Science**

**0.5 credit**

**Course 11091 Fall**

**0.5 credit**

**Course 11092 Spring**

Prerequisite: Successful completion of all required science courses by the end of junior year.

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.

## **Honors Zoology**

**1.0 credit**

**Course 11040**

Prerequisites: Successful completion of Biology/Honors 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.

## **Human Body Systems**

**1.0 credit**

**Course 11520**

Prerequisites: 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 role of biomedical professionals to solve medical mysteries. This course is designed for 10th/11th grade students.

## **IB Biology HL**

**1.0 credit, 1 Honor Point**

**Course 11011 Year 1**

**1.0 credit, 1 Honor Point**

**Course 11012 Year 2**

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.

## **IB Chemistry HL**

**1.0 credit, 1 Honor Point**

**Course 11041 Year 1**

**1.0 credit, 1 Honor Point**

**Course 11042 Year 2**

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.

## **IB Physics HL**

**1.0 credit, 1 Honor Point**

**Course 11121 Year 1**

**1.0 credit, 1 Honor Point**

**Course 11122 Year 2**

Prerequisite: Successful completion of Chemistry/Honors Chemistry. 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 phenomena 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

## Required Courses

World History and  
Geography

US History and  
Geography

Political and Economic Systems: Civics  
Political and Economic Systems: Economics

## Alternates

AP World History

AP US History

AP US Government  
AP Microeconomics + AP Macro Economics

## Elective Courses

9	AP World History; American Media Studies; Asian American/ Pacific Islander History, Culture, & Issues; Practical Law, Modern European History
10	African American History & Culture; American Media Studies; Asian American/ Pacific Islander History, Culture, & Issues; AP Macroeconomics; AP Microeconomics; AP Psychology; APUS Government; AP US History; AP World History; Intro to Psychology Practical Law, Michigan History; Modern European History
11-12	African American History & Culture; American Culture and Baseball; American Media Studies; Asian American/ Pacific Islander History, Culture, & Issues; AP Macroeconomics; AP Microeconomics; AP Psychology; APUS Government; AP US History; AP World History; Honors Cultural Anthropology; Honors International Relations; Honors Philosophy; Honors Physical Anthropology; IB Geography; IB Psychology; IB World Religions; Intro to Psychology; Introduction to Sociology; Logic & Reasoning; Practical Law, Michigan History; Military History; Modern European History; Western Civilization;

## **World History and Geography**

**1.0 credit**

**Course 12225:**

A required Grade 9 course.

Students explore the history and geography of the world beginning on the eve of the First Global Age to the present day. Specific attention will be paid to historical and geographical skills. Topics include: the spread and influence of world religions; major civilizations, empires and nations throughout world history; the impact of trade, imperialism, nationalism, and independence movements; the causes and effects of global conflicts; and cultural diffusion and interaction throughout the world, 21st century and contemporary global issues. 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.

Students will explore the history and geography of the United States from the late 1800s to the present. Units for 1st semester include the Progressive Era, Foreign Policy and WWI, the Roaring 20s, the Great Depression and the New Deal. Second semester includes WWII, the Cold War, Civil Rights and other cultural movements, and contemporary issues to the present. This class is intended to 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.

## **IB Geography SL**

**1.0 credit**

**Course 12271 Year 1**

**1.0 credit,**

**Course 12272 Year 2**

## **IB Geography HL**

**1.0 credit, 1 Honor Point**

**Course 12281 Year 1**

**1.0 credit, 1 Honor Point**

**Course 12282 Year 2**

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 & Personal Finance**

**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 the United States, and to develop student's abilities to function effectively within this system. Students will examine in depth the structure and functions of the economic system from both the micro and macro levels. Additionally, the course integrates personal finance concepts, allowing students to explore key financial principles, such as budgeting, investing, credit, and the management of financial resources. Students will participate in a variety of activities to advance their knowledge and understanding of both current economic issues and personal finance topics that are critical in today's society. These activities will deepen students' understanding of the nation's market economic principles, the role they play in larger debates, and how personal finance choices influence broader economic outcomes. This course will also encourage students to view economic and financial issues from multiple perspectives, fostering critical thinking about different viewpoints and the impact of economic decisions on individuals, communities, and the global economy.

Successful completion of this course fulfills the Michigan Merit Curriculum requirement for economics and personal finance.

## **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. It is recommended that students who enroll in this course have strong reading, writing and self-directed learning skills. A student may take AP United States History to satisfy the United States History requirement for graduation.

## **Western Civilization**

**0.5 credit**

**Course 12260**

Grades 10-12

Western Civilization is a semester-long 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

Advanced Placement World History is a year-long course that specifically prepares students to take the AP Exam in May and students may elect to do so. The course highlights the nature of changes in international frameworks and their causes and consequences, as well as comparisons among major societies. They will study the events, places, documents and ideologies, which have been present from 1200-present day. It is recommended that students who enroll in this course have strong reading, writing and self-directed learning skills.

## **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, and 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.

## **African-American History and Culture**

**0.5 Credit**

**Course 12075**

Grades 10-12

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.

## **Asian American/ Pacific Islander History, Culture, and Issues**

**0.5 Credit**

**Course 12085**

Grades 9-12

Asian American Pacific Islanders have been a part of the American story since the 1800s. This course will explore the history and experiences of Asian Americans as they immigrated to America to follow their dreams. Through a

closer investigation, we will learn how America shaped these newcomers as well as how the nation was in turn shaped by these immigrants from Asia. As immigration from Asia continues to expand, we will explore the themes of culture, identity, and pertinent issues and what it means to be an American. There are no pre-requisites for this course.

## **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 9-12

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

## **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. 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.

## **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.

### **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**

Advanced Placement Psychology is a year-long introductory college-level course that prepares students to take the College Board Examination in May. This class is designed to engage students with the systematic and scientific study of human behavior, including current work in research, ethics, theory and therapy practices. The scope and focus is one of clinical applications, where students become familiar with the treatments, trends, issues and debates current to the field of psychology. It is recommended that students who enroll in this course have strong reading and self-directed learning skills.

### **IB Psychology SL**

**1.0 credit,  
1.0 credit,**

**Course 12251 Year 1  
Course 12252 Year 2**

### **IB Psychology HL**

**1.0 credit, 1 Honor Point  
1.0 credit, 1 Honor Point**

**Course 12261 Year 1  
Course 12262 Year 2**

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 socio-cultural influences on human behavior and explore alternative explanations of behavior. They also understand and use diverse methods of psychological inquiry.

### **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.

### **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.

Topics include the origins of the US government, Congress, the Executive, the Judiciary, Civil Rights and Civil Liberties, as well as the Linkage

Institutions (elections, interest groups, political parties, the media), and voter behavior. The class specifically prepares students to take the AP Exam in May. Successful completion of this course satisfies the civics graduation requirement.

### **Logic & Reasoning**

**0.5 credit**

**Course 12130**

Grades 11-12.

Have you ever heard someone say something you thought was irrational... but you couldn't explain why it was irrational? Logic & Reasoning will help you identify faulty reasoning and then correct it. In particular, students learn informal logical fallacies, informal (natural language) logic and formal (symbolic) logic. As a practical matter, while we do not know what careers will be in demand in upcoming decades, those candidates with strong analytical and verbal reasoning skills should excel when faced with diverse challenges. Logic & Reasoning can help, in sharpening students' critical-thinking skills. Specifically, the course units that examine arguments in English will prepare students for presentations, debates, policy analysis, and the like; learning the structures in everyday reasoning makes writing essays easier, as well. The symbolic logic units prove the underlying logic used in mathematics, computers, and other STEM applications. The symbolic logic unit also prepares students for introductory logic courses that apply toward students' "quantitative reasoning" credit at more than one-third of Michigan's public universities. Decades after taking the class, former students have reported that they continue to the skills learned Logic & Reasoning in their lives. Qualifies for Applied Math credit.

### **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**

**0.5 credit**

**Course 12100**

Grades 11-12

This semester-long course explores international structure and process, as well as regional and global issues and current events. 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 Middle East simulation, a National Security Council simulation and a UN Security Council simulation, along with the opportunity to participate in the P-CEP Model UN (2nd semester).

### **AP Microeconomics | AP Macroeconomics & Personal Finance**

**0.5 credit**

**Course 12023**

**0.5 credit**

**Course 12025**

**1 Honor Point**

Grade 11-12. Prerequisite: Algebra 1

These courses offer a rigorous introduction to a college-based economics curriculum, following the College Board's guidelines for AP Microeconomics and AP Macroeconomics. The courses are designed to deepen students' understanding of economic principles while preparing them for the AP exams.

In **AP Microeconomics**, students will explore microeconomic theory, including supply and demand, market structures, and government intervention. The focus will be on understanding the behavior of individuals and firms in the marketplace.

In **AP Macroeconomics & Personal Finance**, students will learn about national economic principles like inflation, unemployment, fiscal policy, and international trade. This course also integrates essential personal finance concepts. Students will learn how to manage personal finances, including budgeting, saving, investing, and understanding credit.

Successful completion of both courses satisfies the economics and personal finance graduation requirements.

### **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 9-12

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.

### **IB World Religions SL**

**1.0 credit**

**Course 12291 Year 1**

**1.0 credit**

**Course 12292 Year 2**

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..

### **The History of Hip Hop and Rap**

**0.5 credit**

**Course #####**

Grades 10-12.

The history of Hip Hop and Rap is a semester-long elective. Throughout their time in this class, students will look at what started as an underground revolution against Disco in the 1970s and how it stemmed into a multi-billion dollar industry across the world. Students will learn about techniques such as spoken-word, graffiti, MCing, and expression that transformed entire communities. Students will examine various sub-topics in the genre of Hip Hop including the East vs. West Coast rivalry, Rap in mass media, pioneers of Rap and Hip Hop, and women in Hip Hop (including the evolution of the female image). Students will learn how Hip Hop and Rap have empowered artists from countries around the world to use their voices in order to express viewpoints about injustices occurring in their communities. Additionally, students will discuss and analyze both music and lyrics to better understand struggles amongst underrepresented populations.

# VIDEO PRODUCTION

## Introduction to Video Production

**0.5 credit**

**Course 04550**

Grades 9-12

Learn about the basics of television production. The first half of the class will provide fundamental information about cameras, lighting, sound, script writing and studio production. The class will begin with fundamental information. Once these lessons are completed, students will be divided into groups and have hands-on studio and editing experiences. The students will learn the Apple - Final Cut Pro, Motion and Logic software. Students will also learn the structure for writing screenplays and will study set design, plot, color and sound through film analysis. This class is the prerequisite for any advanced production classes.

[Course Link](#)

Qualifies for VAPAA graduation requirement.

## Advanced Video Production

**1.0 credit**

**Course 04600**

Grades 11-12

Prerequisites: Introduction to Video Production and an audition. This course requires permission of instructor for enrollment. Please get a signature to enroll in the class and sign up for an audition in March. Students will be responsible for producing the school announcements. The students will learn media writing skills, location shooting techniques, meet production deadlines and develop professional presentation skills. They will also be responsible for taping and reporting of school extra-curricular activities. The students in the course will further develop editing skills using Apple editing programs, Final Cut Pro, Motion, Logic and DVD Studio Pro. Students interested in this course must be very independent and self-directed.

Qualifies for VAPAA graduation requirement.

## Video Production Tech

**0.5 credit**

**Course 04601 Fall**

**0.5 credit**

**Course 04602 Spring**

Grades 11-12

In this advanced video class, students will focus on field production, or production outside of the classroom. In small groups, students will produce segments for the cable show "Park Pulse" that airs on both the district's cable channel and website. Students will also hone their filmmaking skills by working on a variety of short film projects which might include music videos, mystery films, documentaries and other short formats. Contest entries will also be part of the assignments as well as independent inquiry learning. Students who elect the course should have had Introduction to Video Production or come with a strong skill set in filming and editing. This course may be elected for two years.

Qualifies for VAPAA graduation requirement

[Link](#)

# VISUAL ARTS

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

## Art Survey

**0.5 credit**

**Course 02140**

This survey course is designed for 11-12<sup>th</sup> grade students with limited background in art 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 contemporary and historic artworks from different cultures. Students will explore the world of art through art discussion, activities and small projects.

## Art Foundations

**0.5 credit**

**Course 02130**

Art Foundations is a studio art course for the serious minded art student in Grades 9-10. 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 provides a foundation for other studio classes, and is strongly recommended as a first course for Arts Academy students in the Visual Art track and for students who plan to take IB Art and AP Art.

## Comic Books & Graphic Novels

**0.5 English and 0.5 Art credit**

**Course 04145**

Grades 11-12

Qualifies for VAPAA graduation requirement.

This course offers an introduction to analyzing popular culture through the graphic novel, as well as the opportunity to explore various artistic media to create your own personal comic. This course is designed to improve reading comprehension and analysis, as well as illustration skills. Together, we will explore the ways meanings emerge in several celebrated texts and some emerging classics in the graphic novel/ comics genre. We will explore how graphic storytellers approach a wide variety of historical and contemporary issues, and apply what we learn to telling our own stories. This year-long course will move between the English and Art classroom where students will spend their time reading, writing, analyzing, and illustrating. Successful completion of this class results in .5 Art credit and .5 English credit.

## Digital & Media Arts I

**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, silk-screening, 2D and 3D animation.

## Digital & Media Arts II

**1.0 credit**

**Course 02160**

Prerequisite: Digital & Media Arts I

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. In this second year course, students begin to master the digital techniques introduced in Digital Media Arts I, and to develop their own creative voice. Students will create 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.

## AP 2D Art and Design Portfolio (digital)

**1.0 credit**

**Course 02170**

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. Students will investigate 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, and centers 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.. 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. Students will be prepared for AP 2D Art and Design Portfolio exam. In May, students may submit their portfolio for review by College Board. A fee is required for this review.

## 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 and decorative forms. Students will focus on proper technique while studying cultural and historical influences on ceramics and use what they learn to influence their own work.

## **Advanced Ceramics**

**0.5 credit**

**Course 02040**

Prerequisite: Grade of C or better in 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 then analyze those in 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. Students 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: Grade of C or better in 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. Students will continue to be challenged to think critically to develop unique designs and to solve the problems of integrating design principles into their work .

## **Metals**

**0.5 credit**

**Course 02080**

Grades: 10-12

Students will explore the metalsmithing process from sketching and planning, to finished functional or decorative adornments for use or display. Student will develop a foundation of good craftsmanship by practicing a variety of construction techniques such as cutting, piercing, riveting, and soldering. Student will create various findings, and employ methods of creating texture in metals to create finished pieces of adornment. Students 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 various metals, 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: Grade of C or better in 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 metalsmith to develop individual style and to create elaborate jewelry forms. Students 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 students the opportunity to explore various techniques in watercolor and acrylic paint mediums. Students will focus on developing their individual artistic voice while working to build their painting skills. Students will explore their understanding of composition, color theory, and paint mixing. There is a heavy focus on training the eye to see value, and learning how to blend paint seamlessly. Students will work to think critically about design solutions and gain skills for self expression. Possible materials include: watercolor, watercolor pencils, acrylic, experimental media, and mixed media.

## **Advanced Painting**

**0.5 credit**

**Course 02020**

Prerequisite: Grade of C or better in Painting

Students will build on the painting knowledge and skills built in the first painting course. Students will learn how to use oil paints, and how to properly thin and blend the paints with a continued focus on value. Students will build on their design skills, and learn to develop their own individual art style. Students in Advanced Painting will focus on ideation, concept development, and the post-modern principles of art. Students will use problem solving skills with media and concepts to ensure that their messaging is understood by their intended audience. Possible media includes oil paints, acrylic, watercolor, mixed media, and new media.

## **Sculpture**

**0.5 credit**

**Course 02110**

Students will explore the sculptural process from sketching and planning to finished sculptures for display. Students will focus on proper technique while studying sculpture from various periods in art history in relationship to their own work. Students will sculpt using a **variety of materials** and construction techniques including 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 elements and principles of design while developing functional, decorative, and sculptural forms. Possible materials include stone, wood, wire, polymer clay, and found objects.



## **Beginning Photography**

**0.5 credit**

**Course 02510**

This course introduces the students to the basic concepts of both digital and film photography. Students will learn the mechanics of the digital camera. They will build their own camera and use the darkroom to learn about the properties of light and photography. Digital imaging will be the primary focus of this class, and students will learn to edit images using Adobe Photoshop. Shooting assignments will focus on design, craftsmanship, and creativity. It is helpful but not required for students to have access to a digital point-and-shoot or DSLR camera to use for the course.

## **Intermediate Photography**

**0.5 credit**

**Course 02520**

**Prerequisite:** Grade of C or better in Beginning Photography  
In this course students take what they have learned in Beginning Photography and apply their knowledge at more advanced levels. Students will work exclusively with a DSLR camera and learn to control the shutter, aperture, and ISO to obtain a good exposure and express their personal point of view. Students will also work with a professional studio lighting setup and will explore conceptual photography projects that develop their ability to express themselves visually. It is helpful, but not required, for students to have access to a digital SLR camera and a tripod for this course. Students who do not own a DSLR camera may check one out.

## **Advanced Photography**

**0.5 credit,**

**Course 02530**

**Prerequisites:** Grade of C or better in 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 projects 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. The class also explores the non-traditional photographic process that can include the use of a full photographic darkroom if desired. It is helpful, but not required, for students to have access to a digital SLR camera for this class. Students who do not own a DSLR camera may check one out.

## **AP 2-D Art and Design Portfolio (photography)**

**1.0 credit 1, Honor Point**

**Course 02540**

**Prerequisites:** Grade of C or Better in Intermediate Photography.  
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 photography student interested in creating and completing a portfolio for submission to College Board and/or for submission to Art school. At the end of the year, students will be ready to submit a portfolio containing 15 finished pieces to College Board. AP 2-D Art and Design portfolio is designed to be the equivalent of a one-semester, introductory college course in 2-D Art and Design and, in most cases, will award students college credit. It is helpful, but not required, for students to have access to a digital SLR camera for this class. Students who do not own a DSLR camera may check one out.

## **AP 2-D Art and Design Portfolio (drawing)**

**1.0 credit, 1 Honor Point**

**Course 02030**

Grade 11-12

**Prerequisite:** Grade of B or better in four or more Visual Art courses.

All students must complete an [application](#), submit a portfolio, and 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 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. 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 College Board. A fee is required for this review.

## **IB Visual Art Year 1**

**1.0 credit**

**Course 02801 SL**

**1.0 credit, 1 Honor Point**

**Course 02811 HL**

Grade 11, 12

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. 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 Art Year 2**

**1.0 credit**

**Course 02802 SL**

**1.0 credit**

**Course 02812 HL**

Grade 12

**Prerequisite:** IB Visual Art Year I

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.

### **Contemporary Fashion and Design**

**0.5 credit**

**Course 07030**

Grade 9-12

May be taken up to four times for credit, with students learning more advanced techniques.

Designed to introduce students to the world of fashion. Students will explore the history of fashion, designers, fashion styles, and eras. Students will learn basic hand-sewing techniques as well as the basic functions of sewing machines. Included in this course are reading patterns, and garment construction, body structure, and style

Qualifies for Applied Art credit

### **Interior Design**

**0.5 credit**

**Course 07110**

Grades 10-12

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.

Qualifies for Applied Art credit

### **Textiles and Design**

**0.5 credit**

**Course 07140**

Grades 9-12

This course is a mini-unit class that will introduce students to the world of artistic textiles. Students will be introduced to the historical importance of needlecraft and textile arts through an emphasis on hand work.

Qualifies for Applied Art credit

### **Peer to Peer Connections: Art**

**0.5 credit**

**Course 07105**

Grades 11-12

Prerequisite: Interested students should see their counselor for this [application](#).

Students considering a future career in Human Services such as teaching, social work, psychology or medicine will have the opportunity to develop relevant leadership skills. Students will learn appropriate skills and techniques for working with people who have a variety of cognitive and physical differences, while they support peers with a variety of art projects. Students will learn how to make accommodations while guiding and mentoring students in creative and artistic endeavors

Course qualifies for Visual, Performing, and Applied Arts graduation requirement.

# WORLD LANGUAGE

Chinese I	French I		German I	Spanish I	
Chinese II	French II		German II	Spanish II	
Chinese III	French III	IB French SL I	German III	Spanish III	
	French IV	IB French SL II	German IV	Spanish IV	IB Spanish SL I
	AP French		AP German	AP Spanish	IB Spanish SL II
				Spanish VI	

**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.

**Students who have completed coursework to the AP level in either Spanish or French are eligible to enroll in/ receive credit for the IB course in those languages.**



**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.

**French I****1.0 credit****Course 05010**

Emphasis is placed on using contemporary speech in a variety of family, school and social situations. Students will hear spoken French from a variety of sources. 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. The differences between the French and American cultures are explored on a frequent basis.

**French II****1.0 credit****Course 05020**

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****1.0 credit****Course 05030**

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.

**French IV****1.0 credit****Course 05040**

Prerequisite: B- or higher in French III

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**

Prerequisite: B- or higher in French IV

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****1.0 credit,****Course 05051 Year 1****1.0 credit****Course 05052 Year 2**

Prerequisite: French 2 or Higher

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**

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 III**

**1.0 credit**

**Course 05080**

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 IV**

**1.0 credit**

**Course 05090**

Prerequisite: B- or higher in German III

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**

Prerequisite: B- or higher in German IV

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**

Prerequisite: B- or higher in Spanish III

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**

Prerequisite: B- or higher in Spanish IV

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.

## **Spanish VI**

**1.0 credit 1 Honor Point**

**Course 05220**

Prerequisite: Students must **successfully pass AP Spanish**

After successful completion of AP Spanish, students will design and execute 2-4 self selected projects. They will further study specific areas of interest in depth using authentic sources for reading and listening, reporting daily progress in writing. Other goals include strengthening Spanish skills and confidence in speaking, writing, and culture beyond the AP level. Students will work collaboratively, preparing weekly creative presentations.

## **IB Spanish SL**

**1.0 credit**

**Course 05201 Year 1**

**1.0 credit**

**Course 05202 Year 2**

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..

# ARTS ACADEMY ELECTIVES

## 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; or 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.

## BUSINESS ACADEMY ELECTIVES

### Business Foundations and Technology

**1.0 credit,**

**Course 03145**

Grades 9-10

Students will be introduced to an entry-level understanding of business organizations and structures, management and leadership styles, marketing fundamentals, accounting and financial principles, production methods, and human resource management and diversity. Business technologies, including the Google Platform, Microsoft Office products, as well as the Adobe Suite will be utilized throughout each unit of instruction. Soft skills, which are key to success in the business world will also be embedded within the curriculum. This course is the 9th grade class in the Business Academy, but is open to non-academy 9th and 10th grade students as well.

Qualifies for Applied Art credit.

### Business Academy Marketing

**1.0 credit,**

**Course 03150BA**

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.

DECA, co-curricular club is offered to student in this course

Qualifies for Applied Art credit.

### Business Academy Advanced Marketing Sales & Service

**1.0 credit,**

**Course 03155**

Grades 11-12

Prerequisites: Business Foundations & Technology, Marketing

This course is designed to apply marketing management principles to sales strategies, the sports and entertainment services industry, and the emerging social media marketing world. Sports and entertainment topics are used to apply strategic sales management concepts to business operations, human resource management, marketing-information management, channel management, communication, promotions, and social media. Instruction will be reinforced through the use of outside lectures, case studies, possible field trip experiences, current events, computer simulations, and collaborative group projects.

Qualifies for Applied Art or Applied Mathematics, or 2<sup>nd</sup> year of World Language credit when taken with business Academy Marketing.

### Business Academy Marketing Capstone

**1.0 credit,**

**Course 03185**

Grade 12

Prerequisites: Business Foundations & Technology, Marketing, Advanced Marketing Sales & Services

All academy students must successfully complete a capstone project, which is the culmination of the student's participation in the Business Academy. The course will utilize the project management process to work with a local business or organization to identify a specific problem with the current business operations and implement marketing solutions. Examples include promotional activities, technology integration, customer service improvement, branding, or product development. This will be a self-directed project with the guidance and direction of the academy teacher and business partners.

DECA, co-curricular club is offered to student in this course

Qualifies for Applied Math credit.

# STEM ACADEMY ELECTIVES

## STEM Pathway to Biomedical Sciences

### Principles of Biomedical Sciences

**1.0 credit,**

**Course 11510**

In this course, students explore concepts of biology and medicine as they take on roles of different medical professionals to solve real-world problems. Over the course of the year, students are challenged in various scenarios including investigating a crime scene to solve a mystery, diagnosing and proposing treatment to patients in a family medical practice, to tracking down and containing a medical outbreak at a local hospital and stabilizing a patient during an emergency.

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### Human Body Systems

**1.0 credit,**

**Course 11520**

Prerequisite: Principles of Biomedical Science

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 10<sup>th</sup> grade students.

### Medical Interventions

**1.0 credit,**

**Course 11530**

Prerequisite: Human Body Systems

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.

### Biomedical Innovation

**1.0 credit,**

**Course 11540**

Prerequisite: Medical Interventions

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.

## STEM Pathway to Computer Sciences

### Computer Science Essentials

**1.0 credit,**

**Course 13167**

Grade 9

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 Principles

**1.0 credit, 1 Honor Point**

**Course 13165**

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, cyber security, and simulation. Work with Python, Scratch, PHP, MySQL, JavaScript, NAND/NOR gates, App Inventor, HTML5, and much more.

### Advanced Placement Computer Science (AP Java)

**1.0 credit, 1 Honor Point**

**Course 08015**

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

**2.0 credit,**

**Course 13166**

Prerequisite: AP Java

This course provides students with an introduction to cyber security 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.

# STEM Pathway to Engineering

## Introduction to Engineering Design

**1.0 credit,**

**Course 11610**

Grade: 9,

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.

## Principles of Engineering

**1.0 credit,**

**Course 11620**

Prerequisite: Introduction to Engineering Design

Grade: 10, 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.

## Computer Integrated Manufacturing

**1.0 credit,**

**Course 11635**

Prerequisite: Principles of Engineering

Grade: 11

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

## Engineering Design & Development - Capstone

**1.0 credit,**

**Course 11640**

Prerequisite: Introduction to Engineering Design & 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.

# INTERNATIONAL ACADEMY COURSES

## Group 1: Studies in Language & Literature

### IB Language & Literature HL

1.0 credit

1.0 credit

1 Honor Point

Course 04001 Year 1

Course 04002 Year 2

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 meta-cognition 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.

### IB French SL

1.0 credit

1.0 credit

Course 05051 Year 1

Course 05052 Year 2

Prerequisite: French 2 or Higher

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.

### IB Spanish SL

1.0 credit

1.0 credit

Course 05201 Year 1

Course 05202 Year 2

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..

## Group 3: Individuals & Societies

### IB Geography SL

1.0 credit

1.0 credit

Course 12271 Year 1

Course 12272 Year 2

### IB Geography HL

1.0 credit, 1 Honor Point

1.0 credit, 1 Honor Point

Course 12281 Year 1

Course 12282 Year 2

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.

### IB Psychology SL

1.0 credit

1.0 credit

Course 12251 Year 1

Course 12252 Year 2

### IB Psychology HL

1.0 credit, 1 Honor Point

1.0 credit, 1 Honor Point

Course 12261 Year 1

Course 12262 Year 2

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 socio-cultural influences on human behavior and explore alternative explanations of behavior. They also understand and use diverse methods of psychological inquiry.

### IB World Religions SL

1.0 credit

1.0 credit

Course 12291 Year 1

Course 12292 Year 2

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..

## Group 4: The Sciences

### IB Biology HL

**1.0 credit, 1 Honor Point**  
**1.0 credit, 1 Honor Point**

**Course 11011 Year 1**  
**Course 11012 Year 2**

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.

### IB Chemistry HL

**1.0 credit, 1 Honor Point**  
**1.0 credit, 1 Honor Point**

**Course 11041 Year 1**  
**Course 11042 Year 2**

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.

### IB Physics HL

**1.0 credit, 1 Honor Point**  
**1.0 credit, 1 Honor Point**

**Course 11121 Year 1**  
**Course 11122 Year 2**

Prerequisite: Successful completion of Chemistry/Honors Chemistry. 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

### IB Applications & Interpretations (formerly math studies) SL

**First Year 1.0 credit**  
**Second Year 1.0 credit**

**Course 08201**  
**Course 08202**

IB Mathematics Applications and Interpretations 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.

### IB Mathematics Analysis and Approaches SL

**First Year 1.0 credit**  
**Second Year 1.0 credit, 1 Honor Point**

**Course 08211**  
**Course 08212**

Mathematics Analysis and approaches 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 Analysis and Approaches HL

**First Year 1.0 credit, 1 Honor Point**  
**Second Year 1.0 credit, 1 Honor Point**

**Course 08221**  
**Course 08222**

Mathematics Analysis and Approaches 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

## Group 6: The Arts

### IB Visual Art Year 1

**1.0 credit**

**1.0 credit, 1 Honor Point**

**Course 02801 SL**

**Course 02811 HL**

Grade 11, 12

Prerequisite: Intro to Art and completion of at least one other Visual Arts course (or related experience).

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. 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 Art Year 2

**1.0 credit**

**1.0 credit, 1 Honor Point**

**Course 02802 SL**

**Course 02812 HL**

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.

### IB Music SL

**1.0 credit**

**1.0 credit**

**Course 09201 Year 1**

**Course 09202 Year 2**

### IB Music HL

**1.0 credit, 1 Honor Point**

**1.0 credit, 1 Honor Point**

**Course 09211 Year 1**

**Course 09212 Year 2**

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.

Completion of IB Music HL includes a solo senior recital





# **Comprehensive Course Directory**

Code	Credit	Term	Course Name	APP/ REC Required	NCAA	APP ARTS	APP MATH	WL 2
<b>Career &amp; Technical Education</b>								
03010	1.0	Y	Accounting I				X	
13010	2.0	B	Advanced Automotive Technology				X	X
13315	2.0	B	Advanced Educational Careers					X
03030	2.0	B	Advanced Marketing			X	X	
08015	1.0	Y	Advanced Placement Computer Science (AP Java)				X	X
13165	1.0	Y	Advanced Placement Computer Science Principles		X			
13383	2.0	B	Advanced Restaurant Operation: Hospitality and Culinary Arts			X	X	X
03077	0.5	S	Advanced Web Design			X		
13030	1.0	Y	Architectural and Computer Aided Design			X	X	
13080	2.0	B	Autobody Repair and Restoration				X	X
13050	1.0	Y	Auto Paint			X	X	
13040	2.0	B	Automation & Robotics				X	
13070	0.5	S	Automotive Maintenance and Ownership				X	
13060	1.0	Y	Automotive Technology				X	
03155	1.0	Y	Business Academy Advanced Marketing; Sales & Service			X	X	X
03150BA	1.0	Y	Business Academy Marketing			X		
03185	1.0	Y	Business Academy Marketing Capstone				X	
03165	1.0	Y	Business Administration and Management					X
03145	1.0	Y	Business Foundations and Technology			X		
03070	0.5	S	Computer Applications I					
13170	1.0	Y	Computer Graphics and Design I			X		
13180	1.0	Y	Computer Graphics and Design II			X	X	
13167	1.0	Y	Computer Science Essentials					
13166	2.0	B	Cyber Security					
03072	1.0	Y	Digital Multimedia			X		
13310	2.0	B	Educational Careers					X
13110	0.5	S	Electronics I				X	
13120	0.5	S2	Electronics II				X	
13085	1.0	S	Electronic Vehicle; Design, Build, and Drive (pilot course)					
13130	1.0	Y	Engineering CAD I			X	X	
13075	0.5	S	Empowering Women in Automotive Technology				X	
13140	1.0	Y	Engineering CAD II			X	X	X
13150	1.0	Y	Engineering CAD III			X	X	
03110	.5	S	Entrepreneurship					
03120	0.5	S	Exploring Business					
03130	0.5	S	Finance and Investment				X	
13510	2.0	B	Health Occupations					X
03025	1.0	Y	Honors Financial and Managerial Accounting				X	X
13375	1.0	Y	Hospitality and Culinary Arts: Exploration	X		X	X	X
13370	1.0	Y	Hospitality and Tourism			X	X	X
08100	0.5	S	Introduction to Computer Programming				X	
13305	2.0	B	Introduction to Educational Careers					
03150	1.0	Y	Marketing			X	X	X
03160	2.0	B	Marketing Management			X	X	
03080	0.5	S	Microsoft Excel				X	
03170	0.5	S	Personal Business Law					
03078	0.5	S	Photoshop			X		
11641	01.0	Y	Project launch Roadmap					
03125	0.5	S	Real Estate Essentials				X	
13380/2	2.0	B	Restaurant Operation: Hospitality and Culinary Arts			X	X	X

Code	Credit	Term	Course Name	APP/ REC Required	NCAA	APP ARTS	APP MATH	WL 2
03175	0.5	S	International Business					
13220	0.5	S	Technology Today					
03075	0.5	S	Web Design & Internet			X		
<b>English Language Arts</b>								
<b>English – Year Long</b>								
04065	1.0	Y	Advanced Placement English Language & Composition		X			
04060	1.0	Y	Advanced Placement English Literature & Composition		X			
04115	1.0	Y	African American Literature		X			
04100	1.0	Y	American Literature/ Writing		X			
04250	1.0	Y	Honors Humanities		X	X		
04120	1.0	Y	Honors Modern Literature & The Arts		X			
04001	1.0	Y	IB Language & Literature HL Year 1		X			
04002	1.0	Y	IB Language & Literature HL Year 2		X			
04365	1.0	Y	Other Worlds of Science Fiction and Fantasy					
04200	1.0	Y	World Literature/ Writing		X			
04355	1.0	Y	21st Century Global Issues and Literature		X			
<b>English - Writing &amp; Composition</b>								
04010	0.5	S	Advanced Composition		X			
04292	0.5	S2	Advanced Journalism Semester 2					
04150	0.5	S	Creative Writing		X	X		
04170	0.5	S	Drama and Speech		X	X		
04160	0.5	S	Honors Debate		X			
04260	0.5	S	Intermediate Composition		X			
04280	0.5	S	Introduction to Journalism		X			
04057	0.5	S2	Professional Publications Semester 2			X		
04330	0.5	S	Public Speaking		X			
<b>English- Literature</b>								
04145	1.0	Y	Comic Book and Graphic Novel (0.5 Art/ 0.5 English)			X		
04380	0.5	S	Elements of Fiction		X			
04140	0.5	S2	Late British Literature		X			
04125	1.0	Y	Multicultural Literature		X			
04300	0.5	S	Survey of Humanities		X			
<b>English - Electives</b>								
04290	0.5	S	Advanced Journalism S1					
04208	0.5	S	Drama II			X		
04210	1.0	Y	Drama III			X		
04220	0.5	S	English Structure and Usage		X			
04520	0.5	S	Fundamentals of Radio Broadcasting			X		
04270	0.5	S	Interpersonal Communication					
04055	0.5	S1	Professional Publications Semester 1					
04180	0.5	S	Studies in World Drama I - Ancients to Renaissance		X			
04185	0.5	S	Studies in World Drama II – Restoration to Modern		X			
<b>English Literacy Support</b>								
04411	1.0	Y	Reading/ Writing Workshop 9					
04413	1.0	Y	Reading/Writing Workshop 10					
04414	1.0	Y	Reading/Writing Workshop – 11/1					
<b>Family &amp; Consumer Science</b>								
07030	0.5	S	Contemporary Fashion & Design			X		X
07040	0.5	S	Creative Foods and Nutrition			X		X
07105	0.5	S	Human Services Exploration	X		X		X
07110	0.5	S	Interior Design			X		X
07045	0.5	S	International Foods & Nutrition			X		X
07120	0.5	S	Living on Your Own					X
07140	0.5	S	Textiles and Design			X		X

Code	Credit	Term	Course Name	APP/ REC Required	NCAA	APP ARTS	APP MATH	WL 2
<b>Growth Programs</b>								
01000	0.5	S1	Educational Strategies: Fall					
01001	0.5	S2	Educational Strategies: Spring					
01037	1.0	Y	Journey	X				
01010	1.0	Y	Leadership: Mentoring and Mediation	X				
01055	0.5	S1	Leadership: Project-Based Learning	X				
01060	0.5	S1	Personal Growth Workshop: Women's Topics					
01070	0.5	S2	Personal Growth Workshop: Women's Topics					
01020	0.5	S1	Personal Growth Workshop					
01030	0.5	S2	Personal Growth Workshop					
<b>Health</b>								
06010	0.5	S	Health					
13510	2.0	B	Health Occupations					
07520	0.5	S	Medical Career Foundations					
<b>Math</b>								
08035	1.0	Y	Algebra I		X			
08039	1.0	Y	Algebra I - Advanced		X			
08400	1.0	Y	Algebra I Support	X				
08051	1.0	Y	Algebra II		X			
08500	1.0	Y	Algebra II Support	X				
08055	1.0	Y	Algebra II with Trigonometry		X			
08175	1.0	Y	Algebra III with Trigonometry		X			
08090	1.0	Y	Advanced Placement Calculus AB		X			
08095	1.0	Y	Advanced Placement Calculus BC		X			
08015	1.0	Y	Advanced Placement Computer Science		X		X	
08190	1.0	Y	Advanced Placement Probability & Statistics		X			
08045	1.0	Y	Geometry		X			
08450	1.0	Y	Geometry Support	X				
08058	1.0	Y	Honors Algebra II w/Trig		X			
08048	1.0	Y	Honors Geometry		X			
08185	1.0	Y	Honors Precalculus w/Trig		X			
08201	1.0	Y	IB Math SL Applications and interpretations Year 1		X			
08202	1.0	Y	IB Math SL Applications and interpretations Year 2		X			
08211	1.0	Y	IB Math SL Analysis and Approaches Year 1		X			
08212	1.0	Y	IB Math SL Analysis and Approaches Year 2		X			
08221	1.0	Y	IB Math HL Analysis and Approaches Year 1		X			
08222	1.0	Y	IB Math HL Analysis and Approaches Year 2		X			
08100	0.5	S	Intro to Computer Programming					
08025	1.0	Y	Pre-Algebra					
08180	1.0	Y	Precalculus w/Trig		X			
08116	0.5	S	Problem Solving		X			
08115	0.5	S	Statistical Reasoning		X			
08195	0.5	S	Understanding the World through Mathematics					
<b>Music and Dance</b>								
<b>Non-Performance Music</b>								
09050	1.0	Y	Guitar			X		X
09211	1.0	Y	IB Music HL Year 1			X		X
09212	1.0	Y	IB Music HL Year 2			X		X
09201	1.0	Y	IB Music SL Year 1			X		X
09202	1.0	Y	IB Music SL Year 2			X		X
09080	0.5	S	Music Theory			X		X
09010	1.0	Y	Piano Studies			X		X
<b>Performance - Instrumental Music</b>								
09156	1.0	Y	Chamber Winds			X		X

Code	Credit	Term	Course Name	APP/ REC Required	NCAA	APP ARTS	APP MATH	WL 2
09165	1.0	Y	Concert Band (Brass/Woodwinds)			X		X
09160	1.0	Y	Concert Band (Percussion)			X		X
09065	1.0	Y	Concert Orchestra			X		X
09030	1.0	Y	Symphony Band			X		X
09130	1.0	Y	Symphony Orchestra			X		X
09120	1.0	Y	Wind Ensemble			X		X
<b>Performance - Vocal Music</b>								
09040	1.0	Y	Allegro!			X		X
09095	1.0	Y	Bravo! (Tenor/ Bass)			X		X
09020	1.0	Y	Chamber Choir (Tenor/ Bass)			X		X
09190	1.0	Y	Dulcissima (Soprano/ Alto)			X		X
09180	1.0	Y	Encore!			X		X
09070	1.0	Y	Madrigal Singers (Soprano/ Alto)			X		X
09090	1.0	Y	Park Singers (Soprano/ Alto)			X		X
<b>Fine Arts Dance</b>								
10112	0.5	S	Artistic Dance I			X		X
10113	0.5	S	Artistic Dance II			X		X
<b>Physical Education</b>								
10035	0.5	S1	Advance Football Canton					
10029	0.5	S1	Advanced Football Plymouth					
10030	0.5	S1	Advanced Football Salem					
10180	0.5	S	Advanced Tennis/ Conditioning					
10050	0.5	S	Basketball					
10055	0.5	S2	Basketball, Girls					
10060	0.5	S	Combination Racquets					
10110	0.5	S	Dance and Rhythmic Movement					
10071	0.5	S2	Football Techniques Canton					
10069	0.5	S2	Football Techniques Plymouth					
10070	0.5	S2	Football Techniques Salem					
10090	0.5	S	Lifeguarding					
See Descr.	0.5	S	Personal Fitness					
10140	0.5	S	Soccer Strength & Conditioning					
10160	0.5	S	Swimming and Diving					
10157	0.5	S	Team Games					
10045	0.5	S	Volleyball					
10080	0.5	S	Weight Training & Conditioning					
10200	0.5	S	Wrestling					
10117	0.5	S	Yoga and Pilates					
<b>Science</b>								
11015	1.0	Y	Advanced Placement Biology		X			
11045	1.0	Y	Advanced Placement Chemistry		X			
11085	1.0	Y	Advanced Placement Environmental Science		X			
11180	1.0	Y	Advanced Placement Physics I		X		X	
11010	0.5	Y	Astronomy		X			
11030	1.0	Y	Biology		X			
11060	1.0	Y	Chemistry		X			
11080	0.5	S	Ecology		X			
11091	0.5	S	Forensic Science Fall		X			
11092	0.5	S	Forensic Science Spring		X			
11020	1.0	Y	Honors Biology		X			
11050	1.0	Y	Honors Chemistry		X			
11135	1.0	Y	Honors Physics		X		X	
11040	1.0	Y	Honors Zoology		X			
11520	1.0	Y	Human Body Systems		X			

Code	Credit	Term	Course Name	APP/ REC Required	NCAA	APP ARTS	APP MATH	WL 2
11011	1.0	Y	IB Biology HL Year 1		X			
11012	1.0	Y	IB Biology HL Year 2		X			
11041	1.0	Y	IB Chemistry HL Year 1		X			
11042	1.0	Y	IB Chemistry HL Year 2		X			
11121	1.0	Y	IB Physics HL Year 1		X			
11122	1.0	Y	IB Physics HL Year 2		X			
11130	1.0	Y	Physics		X		X	
11140	0.5	S	Project Ecology					
<b>Social Studies</b>								
12025	0.5	S	Advanced Placement Macroeconomics		X			
12023	0.5	S	Advanced Placement Microeconomics		X			
12015	1.0	Y	Advanced Placement Psychology		X			
12290	0.5	Y	Advanced Placement U.S. Government		X			
12240	1.0	Y	Advanced Placement U.S. History		X			
12020	1.0	Y	Advanced Placement World History		X			
12075	0.5	S	African-American History and Culture		X			
12286	0.5	S	American Culture & Baseball		X			
12280	0.5	S	American Media Studies		X			
12085	0.5	S	Asian American/ Pacific islander; History, Culture, and Issues					
12287	0.5		History of Hip Hop and Rap					
12070	0.5	S	Honors Cultural Anthropology		X			
12100	0.5	S	Honors International Relations		X			
12170	0.5	S	Honors Philosophy		X			
12180	0.5	S	Honors Physical Anthropology		X			
12271	1.0	Y	IB Geography SL Year 1		X			
12272	1.0	Y	IB Geography SL Year 2		X			
12281	1.0	Y	IB Geography HL Year 1		X			
12282	1.0	Y	IB Geography HL Year 2		X			
12251	1.0	Y	IB Psychology SL Year 1		X			
12252	1.0	Y	IB Psychology SL Year 2		X			
12261	1.0	Y	IB Psychology HL Year 1		X			
12262	1.0	Y	IB Psychology HL Year 2		X			
12291	1.0	Y	IB World Religions SL Year 1		X			
12292	1.0	Y	IB World Religions SL Year 2		X			
12115	0.5	S	Introduction to Psychology		X			
12120	0.5	S	Introduction to Sociology		X			
12130	0.5	S	Logic & Reasoning		X		X	
12145	0.5	S	Michigan History: A Local Look		X			
12220	0.5	S	Military History		X			
12160	0.5	S	Modern European History		X			
12032	0.5	S	PES - Civics		X			
12031	0.5	S	PES - Economics		X			
12190	0.5	S	Practical Law		X			
12230	1.0	Y	U.S. History and Geography		X			
12260	0.5	S	Western Civilization		X			
12225	1.0	Y	World History and Geography		X			
<b>STEM Academy Courses</b>								
<b>STEM Pathway to Biomedical Sciences</b>								
11540	1.0	Y	Biomedical Innovation		X			
11520	1.0	Y	Human Body Systems		X			
11530	1.0	Y	Medical Intervention		X			
11510	1.0	Y	Principles of Biomedical Sciences		X			
<b>STEM Pathway to Engineering</b>								

Code	Credit	Term	Course Name	APP/ REC Required	NCAA	APP ARTS	APP MATH	WL 2
11635	1.0	Y	Computer Integrated Manufacturing					
11640	1.0	Y	Engineering Design & Development Capstone		X			
11610	1.0	Y	Introduction to Engineering Design		X			
11620	1.0	Y	Principles of Engineering		X			
<b>STEM Pathway to Computer Science</b>								
08015	1.0	Y	Advanced Placement Computer Science (AP Java)					
13165	1.0	Y	Advanced Placement Computer Science Principles		X		X	
13167	1.0	Y	Computer Science Essentials					
13166	1.0	Y	Cyber Security					
<b>Visual Arts</b>								
02040	0.5	S	Advanced Ceramics			X		X
02120	0.5	S	Advanced Drawing			X		X
02010	0.5	S	Advanced Metals			X		X
02020	0.5	S	Advanced Painting			X		X
02530	0.5	S	Advanced Photography			X		X
02170	1.0	Y	Advanced Placement 2D Art and Design Portfolio (digital)			X		X
02030	1.0	Y	Advanced Placement 2D Art and Design Portfolio (drawing)			X		X
02540	1.0	Y	Advanced Placement 2D Art and Design Portfolio (photo)			X		X
02990	1.0	Y	Arts Academy Capstone	X		X		X
02130	0.5	S	Art Foundations			X		X
02140	0.5	S	Art Survey			X		X
02510	0.5	S	Beginning Photography			X		X
02100	0.5	S	Ceramics			X		X
04145	1.0	Y	Comic Books and Graphic Novels (0.5 Art/ 0.5 English)			X		X
02150	1.0	Y	Digital & Media Arts I			X		X
02160	1.0	Y	Digital & Media Arts II			X		X
02050	0.5	S	Drawing and Sketching			X		X
07105	0.5	S	Peer to Peer Connections; Art	X		X		X
02801	1.0	Y	IB Visual Art SL Year 1			X		X
02802	1.0	Y	IB Visual Art SL Year 2			X		X
02811	1.0	Y	IB Visual Art HL Year 1			X		X
02812	1.0	y	IB Visual Art HL Year 2			X		X
02520	0.5	S	Intermediate Photography			X		X
07110	0.5	S	Interior Design			X		X
02080	0.5	S	Metals			X		X
02090	0.5	S	Painting			X		X
02110	0.5	S	Sculpture			X		X
<b>Video Production</b>								
04600	1.0	Y	Advanced Video Production			X		
04550	0.5	S	Intro to Video Production			X		
04601	0.5	S1	Video Production Tech Semester 1			X		
04602	0.5	S2	Video Production Tech Semester 2			X		
<b>World Language</b>								
05050	1.0	Y	AP French		X			
05100	1.0	Y	AP German		X			
05200	1.0	Y	AP Spanish		X			
05360	1.0	Y	Chinese I		X			
05362	1.0	Y	Chinese II		X			
05363	1.0	Y	Chinese III		X			
05010	1.0	Y	French I		X			
05020	1.0	Y	French II		X			
05030	1.0	Y	French III		X			

Code	Credit	Term	Course Name	APP/ REC Required	NCAA	APP ARTS	APP MATH	WL 2
05040	1.0	Y	French IV		X			
05060	1.0	Y	German I		X			
05070	1.0	Y	German II		X			
05080	1.0	Y	German III		X			
05090	1.0	Y	German IV		X			
05160	1.0	Y	Spanish I		X			
05170	1.0	Y	Spanish II		X			
05180	1.0	Y	Spanish III		X			
05190	1.0	Y	Spanish IV		X			
05220	1.0	Y	Spanish VI					
05051	1.0	Y	IB French SL Year 1		X			
05052	1.0	Y	IB French SL Year 2		X			
05201	1.0	Y	IB Spanish SL Year 1		X			
05202	1.0	Y	IB Spanish SL Year 2		X			