



High School **PROGRAM PLANNING GUIDE**

2026-2027

Harriton High School

Lower Merion High School



High School Program Planning Guide

Lower Merion School District | 2026-2027

Dear Students and Parents/Guardians/Caregivers,

The staff at Harriton High School and Lower Merion High School are committed to providing a program of studies that will prepare all students to succeed in achieving their post high school goals.

This Program Planning Guide describes the high school program of studies available to both Harriton and Lower Merion students. It also contains current policies and other information that could influence the selection of courses. Please read the Guide carefully and do not hesitate to seek assistance from counselors, teachers, and grade level administrators in selecting the best distribution of courses.

Experience has shown that most students' educational needs are best satisfied by selecting a comprehensive and challenging array of courses each year. To assist students and parents in making the most appropriate selections, the following items are recommended for careful consideration:

- Students' educational goals and interests
- Past scholastic record
- Achievement in current courses
- Teacher recommendations
- Prerequisites for certain courses
- Total course load anticipated for next year
- Range of anticipated activities – curricular and extra-curricular

Educationally yours,

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Foundations and Graduation Requirements

Mission Statement

Committed to excellence and continuous improvement, the Lower Merion School District strives to ensure that all students achieve their highest level of critical thinking and creativity, that they value themselves and the diversity of others, and that they are knowledgeable, contributing citizens capable of excelling in a rapidly changing world. This is accomplished by individuals engaging in innovative, active experiences tailored to myriad ways of learning and in partnership with our community.

Vision

Students are our reason for being. We create environments designed to fulfill the individual learning needs and aspirations of each student. Lower Merion School District develops active partnerships at all levels of our learning community and values the individual contributions of each member. We view learning as a dynamic, innovative collaboration. Individuals learn best when their hearts, minds, and spirits are intimately engaged in the learning process. Enter to learn. Go forth to serve.

Minimum Graduation Credit Requirements

Students are urged to make the best use of their time by enrolling in courses at appropriate levels of challenge that will offer them a rigorous program of studies throughout their four years. This generally means that students should earn more than the minimum number of credits required for graduation. A total of 21.5 credits are required for graduation and a diploma from Lower Merion School District. All students are required to take the minimum of 5.25 credits each year.

NOTE: These graduation requirements are governed by Lower Merion School Board Policy.

Credits are required in the following areas:

ENGLISH

Four Courses Minimum

English 1 _____ 1.0 credit

English 2 _____ 1.0 credit

Grade 11 Full-year English Course 1.0 credit

Grade 12 Full-year English Course 1.0 credit

SOCIAL STUDIES

Four Courses Minimum

Global Studies 1 (Grade 9) _____ 1.0 credit

Global Studies 2 (Grade 10) _____ 1.0 credit

US History (Grade 11) _____ 1.0 credit

US Government (Grade 12) _____ 1.0 credit

MATHEMATICS

Three Courses Minimum

Mathematics Courses _____ 3.0 credits

SCIENCE

Three Courses Minimum

Science Courses _____ 3.0 credits

ARTS AND HUMANITIES

Courses that meet this requirement include:

- Any course in the Art, Music, or World Language departments.
- Any course in the English or Social Studies departments beyond the already required four courses in each content area.
1.0 Credit

HEALTH AND PHYSICAL EDUCATION

Eight semesters (two semesters per year-one per semester) of PE plus one year of Health

PE 9 _____ 0.33 credits

PE 10 _____ 0.33 credits

Health (Grade 10) _____ 0.50 credits

PE 11 _____ 0.33 credits

PE 12 _____ 0.33 credits

PERSONAL FINANCE

All students must complete a 0.5 credit course in personal finance as a requirement for graduation, beginning with the Class of 2030.

SENIOR PROJECT

Seniors, as a condition of graduation, complete a culminating Senior Experience.

Senior Project _____ 0.5 credits

** In addition to Lower Merion School District's graduation credit requirements, students must meet one of the Pennsylvania [Pennsylvania Pathways to Graduation](#).*

Suggestions for College-Bound Students

The Lower Merion School District has established minimum requirements that students must fulfill in order to graduate. The information below offers recommendations that we encourage students to consider as they prepare for a competitive college admissions process. Please note that these are general suggestions. We strongly encourage families to research the schools and programs they wish to apply to and meet with their School Counselor or the Career & College Access Counselor to better understand these suggestions and how they relate to their individual post-secondary goals.

Mathematics

It is recommended that students complete the entire Integrated Math curriculum to better position themselves for college admission. Our integrated mathematics program consists of three courses in which Algebra I, Geometry, and Algebra II concepts are intentionally integrated and reinforced across the full sequence. While not all colleges require students to complete all three courses, many institutions, including large public flagship universities such as The Pennsylvania State University expect completion of this sequence at a minimum to be considered for admission.

Integrated Math 1 - 1.0 credit

Integrated Math 2 - 1.0 credit

Integrated Math 3 - 1.0 credit

Science

It is suggested that students complete the three standard science courses listed below.

Biology - 1.0 Credit

Chemistry - 1.0 Credit

Physics - 1.0 credit

Arts

Students planning to apply to the California State University (CSU) or University of California (UC) systems, as well as many other large public universities, are encouraged to complete coursework in the performing or visual arts. This generally includes two 0.5-credit courses or one 1.0-credit course in either performing arts or visual arts; the UC system recommends that semester-long courses be taken within the same discipline.

World Language

Students are encouraged to complete coursework in a world language, as many colleges require or strongly recommend this preparation. State system institutions typically require a minimum of two

consecutive years of the same world language, while more competitive and highly selective colleges often recommend three to four consecutive years.

Keystone Exams

Keystone Exams are state-developed, end-of-course assessments in designated content areas. The Keystone Exams are high school accountability assessments for federal and state purposes. All public-school districts in the State of Pennsylvania are held accountable for participation and performance of all students in Algebra I, Biology, and Literature Exams. Students must take the Keystone Exams for Federal Accountability requirements.

The Algebra I and Literature Keystone Exams include items written to the Assessment Anchors/Eligible Content aligned to the Pennsylvania Common Core Standards in Mathematics and English Language Arts. The Biology Keystone Exam includes items written to the Assessment Anchor/Eligible Content aligned to the enhanced Pennsylvania Academic Standards for Science. Each exam consists of two modules that include multiple-choice questions and constructed response, or open-ended questions. A student will receive a score on each module and must have an overall average proficiency score on an exam.

If a student does not demonstrate proficiency on a Keystone Exam, they may receive school-based supplemental instruction. Students who do not demonstrate proficiency will be scheduled to retake the exam.

If a student has been unsuccessful in attaining proficiency on all three Keystone Exams, the school team will work with the student and their family to satisfy state graduation requirements through alternate means.

** In addition to Lower Merion School District's graduation credit requirements, students must meet one of the Pennsylvania [Pennsylvania Pathways to Graduation](#).*

Resources and Support

There are a variety of resources available for Lower Merion School District students at the high school level.

- **Lunch and Learn:** The Lunch and Learn period is one hour each day in which students and teachers have a 30 minute lunch and 30 minutes for teacher office hours, student collaboration, exercise, quiet study, or downtime.
- **Learning Center:** The Learning Centers are open at both high schools throughout the school day. They are staffed with teachers from various major subject areas. Students may meet with a teacher to have specific questions answered regarding a variety of academic concerns.
- **Writing Center:** Writing Centers are open at both high schools during Lunch and Learn. Students may meet with Peer Writing Fellows to brainstorm essay ideas, to refine writing techniques, and/or to solicit writing advice from an upper-class student who had already taken a particular course, among other writing needs.
- **National Honor Society (NHS) tutors:** Students may request to meet with an NHS tutor in a specific subject. This peer tutoring occurs during a free period, Lunch and Learn, or study hall. Students may see their counselors for more information.
- **Academic Enrichment:** Students may be recommended by a teacher or self-select to attend Academic Enrichment after school. Students work individually or in small groups to hone their skills in Math/Science or History/English.
- **Career & College Access Counselor:** The College Access Counselors are available at both high schools to provide one-on-one support regarding the college search process. It is recommended that the student first meet with a school counselor and then follow up with the College Access Counselor.
- **School Counselor and Transition Experience (SCATE):** SCATE involves group guidance sessions that are tailored to each grade level and occur throughout the school year.
- **Transition from 8th to 9th Grade:** School communities offer a series of formal and informal programs to introduce students to high school and to ensure all students feel supported and successful.
- **Professional Learning Communities (PLCs):** PLCs meet regularly to identify essential and valued student learning, develop common formative assessments, analyze current levels of achievement, set achievement goals, and then share and create lessons to improve upon those levels. The result is a more familiar learning environment for new high school students who feel valued and supported by their teams of teachers.

Academic Policies and Course Selection

Course Selection Process

At the time of course selection, students should make a careful choice of courses in cooperation with parents/guardians/caregivers, teachers, and a school counselor. During this process, teachers assist a student by making a recommendation based on the student's demonstrated abilities and prerequisites for various courses. School counselors then meet with each student to determine courses that are appropriate for long-term goals.

Students should choose courses and levels (honors, college preparatory, AP, IB, dual enrollment) that are appropriate to their individual needs, abilities, and the competitive realities of college admissions and employment opportunities.

No level changes will be made after the last school day in September for full-year or first semester courses (or at the end of February for second semester courses). Rare exceptions will be made only in consultation with a student's parents/guardians/caregivers, teacher, department chair, assistant principal, and school counselor.

Requests for Schedule or Course Level Changes

Requests for schedule changes must be made using the online form available through the website no later than June 18, 2026. Students must state specific reasons for requests. A parent/guardian must approve of any change. Students must attend all scheduled classes until change requests are completed. Failure to do so will result in a cut for the missed class(es).

Academic Deadlines for 2026-2027

Deadline	Description
June 18, 2026	Last student day and last day to request a course and/or level change for all courses for the 2026 - 2027 school year.
September 25, 2026	Final day to withdraw from a first semester or year-long course without appearing on a student's transcript.
October 23, 2026	The last day for level changes for first semester and full year courses. The second semester deadline is February 6, 2026. Level changes will only be considered due to academic misplacement only . All level changes must be recommended by the teacher and approved by the Department Chair and Assistant Principal. Last day to withdrawal from a first semester course with a WP or WF; after this, withdrawal results in an automatic "F."

Deadline	Description
February 12, 2027	Final day to withdraw from a second semester course without having it appear on the student’s transcript.
March 5, 2027	Final day to withdraw from a second semester course with a “WP” or “WF”

Auditing Courses

Students may audit courses offered at Harriton High School or Lower Merion High School on a space-available basis. Auditing courses can provide students with an opportunity to explore an area of interest. The student must submit a written request and obtain written approval from the counselor, assistant principal, and course teacher prior to beginning the course. AP and IB courses cannot be audited. When a student audits a course, a grade of “AU” will appear on the student’s transcript.

Credit Earned as a Result of Receiving Tutoring

The Lower Merion School District does not award credit for study under the direction of private tutors. However, students receiving homebound instruction by District-approved programs may earn credit for such instruction with the approval of the Superintendent.

Lower Merion School District Summer School Program

Each summer, Lower Merion School District offers a summer school experience that provides two opportunities for students in select courses:

1. Credit Recovery
2. Advanced Credit

During the spring semester of the regular school year, online and face-to-face summer school offerings are published and made known to students. Summer school will run from June 30, 2026, through August 6, 2026, for Face-to-Face courses. Online summer school, including MVP and LMSD Online Summer School Health, will run from June 20, 2026, through July 30, 2026. All face-to-face courses must have a minimum enrollment of 15 students by the last day of registration in order to run.

Additional information about summer school is available from a student’s school counselor. Please see the summer school brochure for course offerings and tuition costs.

Educational Experience/Coursework Outside the Lower Merion School District

Students often engage in educational experiences or coursework outside the District’s

program. While these experiences may enrich and enhance a student's learning, such courses will not be documented on an LMSD transcript nor be awarded District credit. Enrollment in these experiences is a decision made by a family or student, thus the District will not offer an opinion or guidance for participation.

Students are welcome to pursue outside courses on their own. However, credit will not be awarded towards graduation for outside courses. The three-course sequence of Integrated Math 1, 2, and 3 may not be fulfilled through outside means and students cannot "skip" or test out of these courses. In addition, Lower Merion does not recognize courses taken outside the District for acceleration purposes when those courses are associated with a Keystone Exam. The District does not administer or provide Advanced Placement exams for course offerings outside our high school program.

Online Offerings During the Academic Year

The Lower Merion School District offers a range of online courses, including some at the Advanced Placement level, which are not offered on site at Lower Merion or Harriton High Schools. These courses are fully accredited and facilitated by certified teachers across the country. Online courses require that a student possess independent learning skills and offer the flexibility of engaging in coursework at any location that has an internet connection.

Online courses are for enrichment purposes. District-offered online courses are reflected on the student's transcript, but do not count towards Harriton or Lower Merion High School departmental requirements, graduation requirements, GPA, or satisfy any other credit requirements for LMSD. These courses are identified on a student's transcript as online courses. Please note that AP exams in these courses will not be administered at Lower Merion or Harriton High Schools.

Students interested in taking an online course must have or make equivalent room in their schedule for the course. Online courses will not be added to an already full student schedule.

Interested students should contact their school counselor to see a list of available courses and to register.

NCAA Academic Eligibility Requirements

This section is taken from: <http://www.ncaa.org/>

Core Courses

NCAA schools require college-bound student-athletes to build a foundation of high school courses to prepare them for the academic expectations in college.

- [Find your high school's list of NCAA core courses](#)
- [Learn more about Division I academic requirements](#)
- [Learn more about Division II academic requirements](#)

What are core courses?

Not all high school classes count as NCAA core courses. Only classes in English, math (Algebra 1 or higher), natural or physical science, social science, world language, comparative religion, or philosophy may be approved as NCAA core courses. Remedial classes and classes completed through credit-by-exam are not considered NCAA core courses.

LMSD classes that are NCAA core courses include:

- English: All general education core English courses and Creative Writing elective.
- Math: All general education core and advanced math courses, all computer science courses (except Cybersecurity)
- Natural/Physical Science: All general education science courses with the exception of Landscape Architecture/Horticulture
- Social Science: All general education social studies courses
- World Language, Comparative Religion and Philosophy: Spanish 1-5, Intermediate Spanish, French 1-5, Latin 1-4, All AP/IB world language courses

If you take a high school class before you start ninth grade, the class may count for your 16 core courses if it is on your high school's list of approved core courses and is shown on your high school transcript with a grade and a credit.

Core Course GPA

The GPA used for certification by the NCAA Eligibility Center is calculated based only on the grades earned in NCAA approved core courses. Only the best grades from the required number of NCAA core courses will be used. For example, if a student took 18 classes that counted toward the 16 core classes, NCAA will count the 16 with the highest grades to meet the core-course distribution requirement. This ensures students get the highest GPA possible.

Generally, you receive the same number of credits from the NCAA for a core course that you receive from your high school for the class. One academic semester of a class counts for .5 of a core course credit. One academic trimester of a class counts for .34 of a core-course credit. One academic quarter of a class counts for .25 of a core-course credit. A one-year class taken over a longer period of time is considered one core course and is not awarded more than one credit.

[Calculate your core-course credits and GPA](#)

Test Scores for NCAA

NCAA Divisions I and II do not require standardized test scores. Check with the NCAA school you plan to attend regarding whether standardized test scores are necessary for admission or scholarship requirements.

For more information, visit [Do I need to submit a standardized test score to the NCAA?](#)

Curricular Pathways & Programs

Course Levels (College Prep, Honors, AP, IB, and DE)

Most courses in the Lower Merion School District Program Planning Guide are taught at more than one level of difficulty to provide an appropriate challenge for students. The designations below are used throughout the Program Planning Guide.

Course Designations:

- College Preparatory
- Honors (H)
- Advanced Placement (AP)
- International Baccalaureate (IB)
- Dual Enrollment (DE)

Grade Calculations:

For students in grade 12 in the 2026–2027 school year:

- **Grade Point Average (GPA)** is calculated at the end of each school year using final grades in the five major academic areas: English, Mathematics, Science, Social Studies, and World Languages.
- Honors, AP, IB, and DE level courses are calculated on a weighted 5.0 scale, and College Preparatory courses are calculated on a 4.0 scale. GPA is reported on a weighted 5.0 scale.

Course Levels with Weighted Scale for Grade 12		
Grade	College Prep	AP/IB/DE/ Honors
A+	4.00	5.00
A	4.00	5.00
A-	3.70	4.70
B+	3.30	4.30
B	3.00	4.00
B-	2.70	3.70
C+	2.30	3.30
C	2.00	3.00
C-	1.70	2.70
D+	1.30	2.30
D	1.00	2.00
D-	0.70	1.70
F	0.00	0.00

For students in grades 9–11 in the 2026–2027 school year:

- **Grade Point Average (GPA)** will be calculated at the end of each school year using final grades from **all** courses and **all** content areas.
- Honors is calculated on a 4.15 scale, and AP, IB, and DE courses are calculated on a 4.25 scale. College Preparatory courses are calculated on a 4.0 scale. GPA is reported on a weighted 4.00 scale.

Course Levels with Weighted Scale for Grades 9-11			
Grade	College Prep	Honors	AP/IB/DE
A+	4.00	4.15	4.25
A	4.00	4.15	4.25
A-	3.70	3.85	3.95
B+	3.30	3.45	3.55
B	3.00	3.15	3.25
B-	2.70	2.85	2.95
C+	2.30	2.45	2.55
C	2.00	2.15	2.25
C-	1.70	1.85	1.95
D+	1.30	1.45	1.55
D	1.00	1.15	1.25
D-	0.70	0.85	0.95
F	0.00	0.00	0.00

College Preparatory

Courses designated college preparatory level are designed to meet the needs of students as they prepare for success in post-secondary life, both college and career. This is the LMSD standard, default course level. Expectations for achievement are maintained at a challenging level for the typical academic student. Grades in College Preparatory level courses are not weighted.

Honors (H)

Courses designated honors level offer faster-paced instruction and expectations that are maintained at a highly rigorous level. Honors level courses often require a high degree of independent work and prepare students for challenges associated with AP and IB courses of study. Grades in honors level courses are weighted.

Advanced Placement (AP)

Courses designated Advanced Placement follow specific curriculum guidelines of the College Board's Advanced Placement Program. Advanced Placement serves students who wish to pursue college-level studies while still in high school.

Students who elect AP courses must be dedicated to increased work that is equivalent to college courses. Students are expected to take the College Board's Advanced Placement Exam at the end of an Advanced Placement course. Grades in AP level courses are weighted.

International Baccalaureate (IB)

The IB Diploma Program (DP) is a two-year curriculum that leads to an internationally recognized high school diploma that is highly respected by universities throughout the world. Additional information about the program is available on the following pages. Students who opt not to pursue the full Diploma Program are invited to enroll in IB elective courses, designated in this guide as "IB." IB classes are rigorous, focusing on the development of critical thinking skills within the content areas. All students enrolled in an IB class are expected to complete all IB assessments.

Dual Enrollment (DE)

Courses designated as dual enrollment provide credit towards high school graduation and earn credits at our partner colleges and universities. These courses are taught by our own high school teachers and are delivered at Lower Merion and Harriton high schools. The course syllabi are approved by the partner colleges and universities. As such, these are rigorous courses and are the equivalent of taking a college level course while in high school. As part of these courses, students will apply to the partner colleges or universities and will receive a transcript from the partner institutions. These transcripts can be requested through the colleges and universities to be shared with other institutions of higher learning and are often accepted as transfer credits.

International Baccalaureate Diploma Program (IB)

The IB Diploma Program is a district-wide offering available only at Harriton High School.

Designed initially for students who are internationally mobile, the IB Diploma offers access to universities throughout the world. Universities, including in the United States, regard the IB Diploma curriculum as outstanding preparation for college-level work. Students determine in their sophomore year if they wish to participate in IB, and they complete the program's requirements during junior and senior years.

Unlike AP courses, which are selected on an a-la-carte basis, IB courses are studied in the context of a unified, comprehensive diploma experience. Because the IB is a diploma program, students take courses in all disciplines: a literature course in their first language; a language acquisition course; a history course; an experimental science course; a mathematics course; and an elective chosen from Visual Arts, Music, Psychology, Economics, Theatre, or a second science. IB students seek a balanced education: a humanities-oriented student can craft an IB schedule that is rooted in the humanities, but he/she must still study math and sciences; likewise, a student deeply rooted in STEM subjects can craft a schedule that is very heavy in quantitative studies, but he/she must still study the humanities.

In addition to these six courses, students complete three "core elements" of the Diploma Program:

- CAS (creativity, activity, service), a student-designed suite of activities that engages students in endeavors that are creative, action-oriented, and provide service
- Extended Essay, a 4,000 word essay in original research
- Theory of Knowledge, a metacognitive course that engages the students in the evaluation of the nature of knowledge and how we come to understand the world around us.

The six subjects and the core are unified philosophically by the fundamental understanding that acquiring knowledge is a critical step toward the greater goal of critical thinking. IB teachers foster an environment conducive to the development of deep analytical skills, including long-term projects, active engagement of the students in seminar-type lessons, research tasks, and writing assignments.

Key Features of the IB Experience

- a rigorous curriculum taught in 150 countries
- an interdisciplinary study in which inter-curricular links are natural
- an emphasis on internationalism
- a cohort experience in which a common group of students studies a common set of subjects, fostering close ties among each other and their teachers
- an international flavor, as the program attracts students from throughout the world who seek an IB diploma to facilitate their university studies either back in their homeland or a future destination.

The Benefits of AP and IB courses

By taking college-level Advanced Placement (AP) or International Baccalaureate (IB) classes, you enter a world of knowledge and a learning environment that you might not otherwise experience in high school. By taking AP or IB exams, you have the opportunity to earn credit or advanced standing at many of the nation's colleges and universities.

The greatest benefit of AP and IB is the experience of taking academic courses in an enriched environment with classmates who are seeking intellectual challenge, are motivated to learn, and are committed to excellence. The courses offer students opportunities to delve more deeply into content, research in a scholarly fashion, and learn in a college-like inquiry-based manner.

Advanced Placement courses are college-level courses taught in high school. Most four-year colleges in the United States and colleges in more than 60 other countries give students credit, advanced placement, or both on the basis of AP Exam scores. International Baccalaureate courses are designed to be high school courses by an international standard, though universities throughout the United States consider them to be college-level courses by a US standard and therefore offer advanced placement and/or credit for scores earned on IB assessments. By entering college with AP or IB credits, students have time to move into upper-level courses, pursue a double-major, or study abroad. Students must take the AP or IB assessments to be eligible for college credit.

Additional information about AP is available from Student Services, the AP Coordinator (Dr. Korey Bell at Harriton, bellk@lmsd.org); or Mr. Jared Epler at Lower Merion High School, eplerj@lmsd.org or the [College Board's website](#).

Additional information about IB is available from Student Services, the IB Coordinator (Mr. Thomas O'Brien, obrient@lmsd.org), the [International Baccalaureate website](#), or [LMSD's IB documentation online](#).

Dual Enrollment (DE) Courses

Lower Merion School District has entered into a partnership with Gwynedd Mercy University as part of the District's commitment to provide juniors and seniors with opportunities for successful transition from high school to college. The Dual Enrollment Program is offered to Harriton and Lower Merion High School students. The Program allows students to take up to four college courses and earn up to twelve college credits upon successful completion. These courses are taught in our buildings, by LMSD teachers who have been approved as adjunct professors by the participating college/university.

The suggested course sequence is to take Introduction to Business Seminar and Principles of Marketing junior year and then Accounting and Principles of Management senior year. Exceptions to the suggested course sequence will be considered on a case-by-case basis.

Students are required to pay all tuition and course fees once admitted in order to be scheduled for the course(s). The projected tuition for each course is \$420.

Year 1

DE Introduction to Business Seminar (3 College Credits; offered semester 1)

- Length/credit: 1 semester / 0.5 credit
- Grades: 11, 12
- Course Number: 18090103

Course Description: This course explores the nature and scope of business, examines its component parts, and describes how business is organized and managed. It provides an integrated and balanced coverage of the foundations of business, economics, forms of business ownership, business ethics and social responsibility, human resource management, marketing, and the role of accounting in business.

DE Principles of Marketing (3 College Credits; offered semester 2)

- Length/credit: 1 semester - 0.5 credit
- Grade(s): 11, 12
- Course Number: 18090303

Course Description: This course explores many of the essential principles of marketing. Topics include the marketing mix, strategic planning, consumer behavior, segmentation, targeting, positioning, marketing research, market intelligence, marketing communication, digital marketing, as well as customer satisfaction, loyalty, and empowerment. Students will apply the concepts learned in class to create and present a comprehensive marketing analysis of an existing company of their choice.

Year 2

DE Accounting (3 College Credits; offered semester 1)

- Length/credit: 1 semester - 0.5 credit
- Grade(s): 11, 12
- Course Number: 18090203

Course Description: This course focuses on completing all steps of the accounting cycle for a business while following Generally Accepted Accounting Principles (GAAP). This includes understanding the accounting equation, analyzing transactions into debits and credits, journalizing, posting to a general ledger, cash control systems, preparation a worksheet with adjusting entries, preparation of financial statements (income statement, statement of owner's equity, balance sheet), recording closing entries and preparing a post-closing trial balance.

DE Principles of Management (3 College Credits; offered semester 2)

- Length/credit: 1 semester - 0.5 credit
- Grade(s): 11, 12
- Course Number: 18090403

Course Description: This course addresses the methods by which management can influence an organization. Topics include managing and performing, managerial decision making, external and internal organization environments and corporate culture, ethics, corporate responsibility and sustainability, strategic analysis and the strategic management process, organizational structure, human resource management, diversity in organizations and leadership. Students will expand their knowledge by conducting an extensive interview with a manager and sharing their findings with the class.

Central Montco Technical High School (CMTHS)

This section is taken in part from: www.cmths.org

The Lower Merion School District participates in programs that offer vocational-technical courses at the Central Montco Technical School. Courses are scheduled for a half-day—LMSD participates in the AM and PM programs. Students attend regular classes one-half day at Harriton High School or Lower Merion High School and one-half day at the Central Montco Technical School.

Central Montco Technical High School (CMTHS) provides a variety of educational programs that prepare students to enter the workforce or to continue their education at colleges, universities, and technical schools. In addition to occupation specific training, CMTHS promotes the development of civic responsibility, employability skills, leadership, and professionalism. All programs are competency based and designed to meet the needs, skills, interests, abilities, and preferences of the individual student.

CMTHS is also committed to serving the business and industry sector of the community by providing programs that assist in meeting local, state, and national workforce requirements. At CMTHS, caring and professionally certified staff share their skills while challenging and mentoring their students. Many of the instructors have established high profiles in their fields of experience prior to becoming teachers. Teachers serve as mentors and respond to individual needs as they extend their support and enthusiasm while preparing students for the future. Our students can obtain a variety of state and nationally recognized certifications and professional licenses.

To learn more about CMTHS programs of study, please visit www.cmths.org/programs

Technical Program of Study	Eligible Grade Levels
Allied Health (Honors Program)	Grade 12
Automotive Technology	Grades 10, 11, 12
Baking & Pastry Arts	Grades 10, 11, 12
Barbering	Grades 10, 11, 12
Building Trades	Grades 10, 11, 12
Collision Repair Technology	Grades 10, 11, 12
Cosmetology	Grades 10, 11, 12
Culinary Arts	Grades 10, 11, 12
Early Childhood Education	Grades 10, 11, 12
Healthcare Sciences	Grades 10, 11, 12
Landscape Design & Construction	Grades 10, 11, 12
Networking Technology	Grades 10, 11, 12
Public Safety (Fire, Police, EMS)	Grades 10, 11, 12
Secondary Education Academy	Grades 11, 12
Sports Medicine & Rehabilitation Therapy	Grades 10, 11, 12
Video, Sound, and Music Production	Grades 10, 11, 12
Visual Communications	Grades 10, 11, 12

How to Apply to CMTHS:

- Enrollment at CMTHS is limited. Therefore, each applicant is evaluated based on information provided in the application. Only complete applications will be reviewed, and admission will be granted until all openings in that program are filled. The remaining applicants are then placed on a waiting list for potential placement as openings occur in those programs.
- Since there are a limited number of openings each year, students should have their application on file at CMTHS by January 20 for the next school year. Applications submitted after the first round of application submissions will be considered on a space available basis.
- Interested students should go to www.cmths.org/prospective-students to apply. LMSD school counselors may support students in completing their applications, but do not have any impact on the admissions process or decisions.

Courses of Study

Art

All introductory art courses (i.e., all semester art courses) will be offered at the college preparatory level only.

9th Grade Art H

- Length/credit: 1 year - 1.0 credit
- Grade: 9
- Course Number: 06010903

Course Description: This year-long, rigorous Honors course introduces ninth graders to a deep dive into various materials and techniques—drawing, painting, sculpture, and digital media—while refining their artistic skills. Successful completion of this course will prepare ninth grade students for the Art Honors pathway.

Art 1 H

- Length/credit: 1 year - 1.0 credit
- Grade(s): 10, 11, 12
- Course Number: 06010303

Observation is key to learning to see like an artist. Students taking Art 1 H will sharpen their observation skills through hands-on drawing exercises that help them see the details and depth around them. Students will experiment with a range of materials, from traditional media to digital tools, building their portfolio along with artistic confidence. This foundational course prepares students for success in the Art Honors pathway.

Art 2 H

- Length/credit: 1 year - 1.0 credit
- Grade(s): 11, 12
- Prerequisite: Interested students must have successfully completed Art 1 H or obtain the recommendation of the Department Chair through a portfolio review.
- Course Number: 06010503

Course Description: This course builds on the observation and foundational skills honed in Art 1 H, embarking students on a journey into the dynamic world of color theory and application. Students taking Art 2H will work through a variety of engaging drawing and painting exercises to deepen their understanding of color relationships and continue to develop artistic techniques and voice. A variety of color media, including traditional and digital, are explored as students continue to develop a skillful portfolio and prepare for senior course work in Art 3H or AP Art & Design/AP Drawing.

Art 3 H

- Length/credit: 1 year - 1.0 credit
- Grade: 12

- Prerequisite: Interested students must have successfully completed Art 2 H.
- Course Number: 06010713

Course Description: This course centers on conceptual development and technical mastery to expand each student's capacity for personal expression. Students dive deeper into mixed media and digital innovation, engaging in projects that challenge creativity, encourage experimentation, and build a portfolio that demonstrates both growth and artistic identity. Collaboration, critique, and reflective practice foster a supportive, professional studio environment. Students also prepare for competitive opportunities, including juried exhibitions, scholarship applications, and college portfolio reviews.

Art 1 Studio

- Length/credit: 1 semester - 0.5 credit
- Grade(s): 9, 10, 11, 12
- Course Number: 06010200

Course Description: In this exciting, introductory art course, students will learn techniques of drawing, painting, color theory, sculpting, and discover 2-D and 3-D design. It is an introductory art class for students with little to no art experience to practice various art techniques and art media. Students will engage in creative art-making skills to further expand their creative confidence.

Art 2 Studio

- Length/credit: 1 semester - 0.5 credit
- Grade(s): 9, 10, 11, 12
- Prerequisite: Interested students must have successfully completed Art Studio 1
- Course Number: 06010412

Course Description: Art 2 Studio is intended for students who wish to further develop and expand their creative talents. Students enjoy the opportunity to pursue areas of interest and creative themes. Students will further enhance their creative knowledge by use of examples, exercises, critiques and creative projects. A variety of media are available for students' creative expression.

Art 3 Studio

- Length/credit: 1 year - 1.0 credit
- Grade: 10, 11, 12
- Prerequisite: Interested students must have successfully completed Art 2 Studio.
- Course Number: 06010600

Course Description: Students will start this year-long course with an opportunity to develop their own artistic theme. Students will work independently to enhance and create a diverse portfolio that expresses their creative voice and ambitions. As a culmination of the work begun in Art 1 Studio and Art 2 Studio, this course presents students with the opportunity to explore areas of artistic interest and develop ideas independently. Students interested in transitioning to the Art Honors pathway must schedule a portfolio review for appropriate placement. The purchase of a sketchbook is recommended for this course.

Ceramics 1

- Length/credit: 1 semester - 0.5 credit
- Grade(s): 9, 10, 11, 12
- Course Number: 06030100

Course Description: In this course, students work with clay to create functional and sculptural pieces. Hand-building construction includes pinch, coil, and slab techniques. Additionally, students also have the opportunity to explore alternative stamping and texture methods. . Additionally, students also have the opportunity to explore alternative stamping and texture methods. Students design, decorate, glaze and fire their work for permanency.

Ceramics 2

- Length/credit: 1 semester - 0.5 credit
- Grade(s): 9, 10, 11, 12
- Prerequisite: Interested students must have successfully completed Ceramics 1.
- Course Number: 06030200

Course Description: In Ceramics 2, students learn to use the potter's wheel and create a coil pot as well as have the opportunity to develop and create clay stamping techniques and more advanced hand-built projects. Students also gain a greater understanding of aesthetic qualities in ceramics and an appreciation of contemporary and historical ceramics.

Advanced Ceramics 3 H

- Length/credit: 1 year - 1.0 credit
- Grade(s): 10, 11, 12
- Prerequisite: Interested students must have successfully completed Ceramics 2.
- Course Number: 06030503

Course Description: In Advanced Ceramics 3 H, students design and create complicated clay works. Students have the opportunity to concentrate on or explore a combination of potter's wheel techniques, advanced glazing and advanced conceptual hand building assignments. In addition, students gain a greater understanding of aesthetic qualities in ceramics, an appreciation of contemporary and historical ceramics artists, develop and create advanced clay stamping techniques, and will begin to develop their own artistic voice.

Advanced Ceramics 4 H

- Length/credit: 1 year - 1.0 credit
- Grade(s): 11, 12
- Prerequisite: Interested students must have successfully completed Advanced Ceramics 3H.
- Course Number: 0603703

Course Description: In this advanced course, students continue to develop and advance their ceramic skills within their chosen concentrations while developing a portfolio of ceramic work. Students can also develop and create advanced clay stamping techniques. Students can also develop and create

advanced clay stamping techniques.

Advanced Ceramics 5 H

- Length/credit: 1 year - 1.0 credit
- Grade: 12
- Prerequisite: Interested students must have successfully completed Advanced Ceramics 4H.
- Course Number: 06030903

Course Description: In this course, students continue to develop and advance their ceramic skills within their chosen concentrations while developing a portfolio of advanced ceramic work. Students can also develop and create advanced clay stamping techniques. Students can also develop and create advanced clay stamping techniques.

Communication Design 1

- Length/credit: 1 semester - 0.5 credit
- Grade(s): 9, 10, 11, 12
- Course Number: 06100500

Course Description: Students explore a variety of digital media and artistic concepts, while being introduced to the process of design thinking and creative problem solving. Investigations in graphic design, illustration, motion graphics, multimedia, and/or interactive design allow students to build an understanding of the essential elements of visual design, and how those have an impact on their imagery. Through hands-on projects, students develop a strong foundation in digital design and build practical skills applicable to careers in advertising, marketing, branding, or the visual arts. No prior experience with digital platforms is needed but students should be open to working on the computer daily. Supported Software: Adobe Creative Cloud (Photoshop, Illustrator, etc), and more.

Communication Design 2

- Length/credit: 1 semester - 0.5 credit
- Grade(s): 9, 10, 11, 12
- Prerequisite: Interested students must have successfully completed Communication Design 1.
- Course Number: 06100600

In this course, students continue their creative exploration of Communication Design by building on the technical and visual design skills introduced in Level 1. Students explore advancing concepts and creative challenges, with a greater focus on the successful communication of intended meaning and message.

Communication Design 3 H

- Length/credit: 1 year - 1.0 credit
- Grade(s): 10, 11, 12
- Prerequisite: Interested students must have successfully completed Communication Design 2.

- Course Number: 06100303

Course Description: Students continue their study of Communication Design with the development of visual style and technique. Students begin to work collaboratively to design more complex communication across multiple platforms with a focus on addressing real-world challenges. More of an emphasis is placed on the design thinking and problem-solving skills of ideation, prototyping, and testing the success of their communication.

Communication Design 4/5 H

- Length/credit: 1 year - 1.0 credit
- Grade(s): 10, 11, 12
- Prerequisite: Interested students must have successfully completed Communication Design 3H.
- Course Number: 06100403

Course Description: At the advanced level of Communication Design students should have a strong technical and conceptual foundation that will enable them to create authentic and impactful designs and messages. Students use design thinking to develop and refine their work through a sequence of unique critique-centric and technical seminars. Student-driven projects create a unique point of view, engaging collaborative work, and individualized portfolios. Supported Software includes Adobe Creative Cloud (Photoshop, Illustrator, InDesign), iPads with Procreate and more.

Film-Photography 1

- Length/credit: 1 semester - 0.5 credit
- Grade(s): 9, 10, 11, 12
- Course Number: 06060100

Course Description: In this hands-on course, students will learn to capture stunning images and videos while experimenting with different techniques and tools. Bring your own vision to life using digital cameras and Adobe Creative Cloud programs, like Lightroom, Photoshop, and Premiere Pro. Whether a student is new to the craft or looking to build their skills, this class offers a fun and supportive space to explore your creativity and tell your unique story.

Film-Photography 2

- Length/credit: 1 semester - 0.5 credit
- Grade(s): 9, 10, 11, 12
- Prerequisite: Interested students must have successfully completed Film-Photography 1.
- Course Number: 06060200

Course Description: In this course, students will take their filmmaking and photography skills to the next level. This course builds on the basics, helping you expand your creative ideas and sharpen your technical skills. With engaging hands-on projects and creative challenges, this course is perfect for students ready to refine their techniques, and take on more ambitious projects.

Advanced Film-Photography 3 H

- Length/credit: 1 year - 1.0 credit

- Grade(s): 10, 11, 12
- Prerequisite: Interested students must have successfully completed Film-Photography 2 H.
- Course Number: 06060303

Course Description: Students will dive deeper into filmmaking and photography in this yearlong course. Students will learn essential lighting techniques while honing technical and creative skills through in-studio shoots. Learn various cinematography techniques in order to master visual storytelling while constructing short films. By continuing to explore advanced editing software and conceptual ideas, you'll develop a strong portfolio that showcases your growth as an artist. This is a perfect course for students looking to discover their artistic voice and create standout projects. By the end of the course, students will have developed a portfolio of photographs or films and an artist's statement.

Advanced Film-Photography 4 H

- Length/credit: 1 year - 1.0 credit
- Grade(s): 10, 11, 12
- Prerequisite: Interested students must have successfully completed Film-Photography 3 H.
- Course Number: 06060403

Course Description: In this course, students will discover how to explore creative lighting techniques and develop their ability to tell a story through various photographic/film and writing assignments. Students will learn to create compelling visual narratives and explore advanced editing and digital manipulation to enhance their work. By the end of the course, students will build a skillful portfolio that showcases artistic growth and creative vision in preparation for Level 5 or AP.

Advanced Film-Photography 5 H

- Length/credit: 1 year - 1.0 credit
- Grade(s): 10, 11, 12
- Prerequisite: Interested students must have successfully completed Film Photography 4 H.
- Course Number: 06060503

Course Description: In this course, students discover the varied ways in which the photographer/filmmaker can approach and interpret their own ideas, messages, and stories.. Students entering the Advanced Program should have a strong technical and conceptual foundation and define a body of work on which they plan to focus. Students develop and refine their work through a sequence of unique critique-centric and technical seminars while benefitting from the mentorship of a faculty advisor; studio workshops focused on digital literacy will aid students in more advanced editing and digital manipulation. The program culminates in a student exhibition, showcasing student growth and a fully realized portfolio of compelling visual narratives.

Metal Arts 1

- Length/credit: 1 semester - 0.5 credit
- Grade(s): 9, 10, 11, 12
- Course Number: 06020100

Course Description: Basic metalworking and jewelry-making techniques are covered in this introductory course. Explore the endless possibilities of crafting with copper, nickel, silver, and brass as students create unique wearable art and small metal sculptures, including bracelets, rings, mobiles, and earrings. Learn essential techniques like sawing, soldering, riveting, and finishing, all while discovering how to infuse personal artistic style into creations. This course is your gateway to transforming metal into art.

Metal Arts 2

- Length/credit: 1 semester - 0.5 credit
- Grade(s): 9, 10, 11, 12
- Prerequisite: Interested students must have successfully completed Metal Arts 1.
- Course Number: 06020502

Course Description: In this advanced course, students will refine techniques like sawing, soldering, riveting, and semi-independent torchwork while exploring stone setting and inlay. Students will work with copper, nickel, silver, and brass to craft stunning small metal objects and wearable art, including containers, mobiles, bracelets, neckpieces, rings, and more. This course emphasizes developing your unique artistic voice as you create bold and intricate designs that showcase your growing expertise.

Advanced Metal Arts 3 H

- Length/credit: 1 year - 1.0 credit
- Grade(s): 10, 11, 12
- Prerequisites: Interested students must have successfully completed Metal Arts 2.
- Course Number: 06020703

Course Description: Explore techniques such as advanced stone setting, hollow forms, hinge making, chain mail, and casting, while tackling projects that involve complex soldering, independent torchwork, and sophisticated design strategies.

In addition to working with metals like silver, copper, and brass, you'll experiment with alternative materials such as wood, plastic, and glass, broadening your artistic possibilities. This course emphasizes conceptual thinking and encourages you to refine your artistic voice as you create innovative, one-of-a-kind designs.

Advanced Metal Arts 4 H

- Length/credit: 1 year - 1.0 credit
- Grade(s): 11, 12
- Prerequisite: Interested students must have successfully completed Advanced Metal Arts 3H.
- Course Number: 06020903

Course Description: At this level, students further advance their metalworking skills through artmaking challenges that encourage personal expression. Students choose the advanced techniques they want to explore, such as stone setting, casting, and hinge making, while experimenting with new ideas and materials.

Through research, experimentation, and hands-on practice, students are expected to produce high-quality work and develop a comprehensive portfolio of Metal Arts artworks. This course empowers students to push their creative boundaries while refining their skills and artistic voice.

Advanced Metal Arts 5 H

- Length/credit: 1 year - 1.0 credit
- Grade: 12
- Prerequisite: Interested students must have successfully completed Advanced Metal Arts 4H.
- Course Number: 06021103

Course Description: At this level, students continue to refine their skills within their chosen metal concentrations while developing a portfolio of very advanced metal arts work. Students select the advanced techniques they wish to explore and are encouraged to experiment with new ideas and materials. Through research, experimentation, and hands-on practice, students are expected to produce high-quality work that reflects their growing expertise and artistic vision. This course challenges students to push their creative boundaries while building a diverse and impressive portfolio.

AP 2-D Art and Design

- Length/credit: 1 year - 1.0 credit
- Grade(s): 11, 12
- Prerequisites: It is required that interested students have successfully completed either Art 2H or Film & Photography 3H, or obtain the recommendation of the Department Chair through a portfolio review.
- Course Number: 06011004

Course Description: The AP 2-D Art and Design course is an inquiry-based approach to exploring and creating art. Students develop a portfolio focusing on photography, film, or a variety of 2-D materials including drawing, painting and mixed media. Students will curate a final portfolio showcasing their investigation of personally selected ideas and concepts, including completed artworks, process documentation, and written reflections. In May, students submit either an AP 2-D Art and Design or AP Drawing portfolio for evaluation, providing an opportunity to earn college credit based on their work and creativity.

AP 3-D Art and Design

- Length/credit: 1 year - 1.0 credit
- Grade(s): 11, 12
- Prerequisites: It is required that interested students have successfully completed either Advanced Metals 3H or Advanced Ceramics 3H, or obtain the recommendation of the Department Chair through a portfolio review.
- Course Number: 06011104

The AP 3-D Art and Design course offers an inquiry-based approach to creating and exploring art. Students develop a three-dimensional portfolio, focusing on a medium of their choice, such as metal arts, ceramics, or sculpture. The portfolio showcases their investigation of personally selected ideas

and concepts, including completed artworks, process documentation, and written reflections. In May, students submit their portfolios for evaluation, providing an opportunity to earn college credit based on their work and creativity.

International Baccalaureate Visual Arts Classes

It is not necessary to be a member of the IB Program to take the IB art classes. These courses are only offered at Harriton High School.

International Baccalaureate Visual Arts Class Sequence:

- IB Visual Arts SL-or- IB Visual Arts HL Part 1 (Year 1)
- IB Visual Art HL Part 2 (Year 2)

IB Visual Arts-SL (offered at Harriton High School only)

- Length/Credit: 1 year - 1.0 credit
- Grade(s): 11, 12
- Course Number: 06080105

Course Description: This course places creative exploration and art-making at its heart, empowering students to engage with ideas, transform their perspectives, and emerge as reflective artists and active contributors to their communities. Structured around three interconnected areas—Create, Connect, and Communicate—students develop key skills in creativity, critical thinking, and collaboration through dynamic, non-linear learning experiences.

At both Standard Level (SL) and Higher Level (HL), students undertake personal artistic inquiries, building portfolios that showcase their conceptual growth and technical expertise. They delve into the cultural and contextual dimensions of art-making, researching its impact and drawing meaningful connections between their work and that of other artists.

The course culminates in a cohesive body of resolved artworks, accompanied by visual and written reflections that celebrate each student’s artistic journey and evolving practice.

The assessment tasks for both Standard Level (SL) and Higher Level (HL) are closely aligned, with SL featuring a slightly reduced workload to reflect the shorter time frame. At Harriton, SL is offered as a one-year course, while HL spans two years, providing extended opportunities for deeper exploration and artistic development. All students enrolled in this class are required to complete the International Baccalaureate assessments.

IB Visual Arts-HL (Part 1) (offered at Harriton High School only)

- Length/Credit: 1 year - 1.0 credit
- Grade(s): 11, 12
- Course Number: 06080205

Course Description: This course places creative exploration and art-making at its heart, empowering students to engage with ideas, transform their perspectives, and emerge as reflective artists and active contributors to their communities. Structured around three interconnected areas—Create, Connect, and Communicate—students develop key skills in creativity, critical thinking, and collaboration through dynamic, non-linear learning experiences.

At both Standard Level (SL) and Higher Level (HL), students undertake personal artistic inquiries, building portfolios that showcase their conceptual growth and technical expertise. They delve into the cultural and contextual dimensions of art-making, researching its impact and drawing meaningful connections between their work and that of other artists.

The course culminates in a cohesive body of resolved artworks, accompanied by visual and written reflections that celebrate each student’s artistic journey and evolving practice.

The assessment tasks for both Standard Level (SL) and Higher Level (HL) are closely aligned, with SL featuring a slightly reduced workload to reflect the shorter time frame. At Harriton, SL is offered as a one-year course, while HL spans two years, providing extended opportunities for deeper exploration and artistic development.

This course is also suitable for advanced art students looking to build a portfolio for admission to art school or other higher education programs with an art focus. Non-IB students may take Part 1; however, scheduling Part 2 is not guaranteed. All students enrolled in this class are required to complete the International Baccalaureate assessments.

IB Visual Arts-HL (Part 2) (offered at Harriton High School only)

- Length/Credit: 1 year - 1.0 credit
- Grade(s): 12
- Course Number: 06080305

Course Description: This course places creative exploration and art-making at its heart, empowering students to engage with ideas, transform their perspectives, and emerge as reflective artists and active contributors to their communities. Structured around three interconnected areas—Create, Connect, and Communicate—students develop key skills in creativity, critical thinking, and collaboration through dynamic, non-linear learning experiences.

At both Standard Level (SL) and Higher Level (HL), students undertake personal artistic inquiries, building portfolios that showcase their conceptual growth and technical expertise. They delve into the cultural and contextual dimensions of art-making, researching its impact and drawing meaningful connections between their work and that of other artists.

The course culminates in a cohesive body of resolved artworks, accompanied by visual and written reflections that celebrate each student’s artistic journey and evolving practice.

The assessment tasks for both Standard Level (SL) and Higher Level (HL) are closely aligned, with SL featuring a slightly reduced workload to reflect the shorter time frame. At Harriton, SL is offered as a

one-year course, while HL spans two years, providing extended opportunities for deeper exploration and artistic development.

This course is also suitable for advanced art students looking to build a portfolio for admission to art school or other higher education programs with an art focus. Non-IB students may take Part 1; however, scheduling Part 2 is not guaranteed. All students enrolled in this class are required to complete the International Baccalaureate assessments.

Business, Computer, and Information Technology

Foundations of Business

- Length/credit: 1 semester - 0.5 credit
- Grade(s): 9, 10, 11, 12
- Course Number: 09010100

Course Description: Foundations of Business introduces students to the world of business, including the concepts, functions, and skills required to be successful in a twenty-first century business. Students will engage with a variety of topics including business management, entrepreneurship and business ownership, marketing fundamentals, accounting, and human resources. The course will allow students to develop business vocabulary while gaining a complete understanding and appreciation of how these fundamental aspects work together in business.

Entrepreneurship

- Length/credit: 1 semester - 0.5 credit
- Grade(s): 9, 10, 11, 12
- Course Number: 09010200

Course Description: The Entrepreneurship class helps students understand what it is like to be an entrepreneur and the risks involved in starting and operating a business enterprise. Active learning strategies are utilized in this course to provide students experience in applying their knowledge in the context of real-life business scenarios. This course allows students the latitude to explore their individual business interests by applying the content taught to develop a comprehensive business plan which includes description of business, marketing, management and finance sections for an innovative product or service of their choice. The course is a prerequisite and prepares students to implement a business plan in Advanced Entrepreneurship.

Advanced Entrepreneurship

- Length/Credit: 1 semester - 0.5 credit
- Grade(s): 9, 10, 11, 12
- Prerequisite: Entrepreneurship
- Course Number: 09010600

Course Description: The Advanced Entrepreneurship class provides students with the opportunity to implement a business plan and challenges them to start an entrepreneur venture while still in high school. The creative and problem-solving skills taught in the Advanced Entrepreneurship course

enhances the knowledge gained in the other business courses. Students have the opportunity to develop practical skill sets (i.e. marketing and advertising, communication, accounting, finance, and management) that will foster success in current and future ventures.

Sport and Entertainment Marketing

- Length/credit: 1 semester - 0.5 credit
- Grade(s): 9, 10, 11, 12
- Course Number: 09100400

Course Description: Sport and Entertainment Marketing takes students on a step-by-step journey through the world of marketing. Students encounter and learn about the key functions of marketing and how those functions are applied to sports and entertainment. Students develop a thorough understanding of the marketing concepts and theories that apply to sports and events. The course content is based on business and marketing topics including product/service management, pricing distribution, and promotional strategies. This course includes a business simulation directly related to sports and entertainment marketing.

Video Production

- Length/credit: 1 semester - 0.5 credit
- Grade(s): 9, 10, 11, 12
- Course Number: 09020400

Course Description: Students develop skills, knowledge, and an appreciation of video production. Students view films in class with an eye on proper shot composition and camera angles. Students incorporate what they have learned in their own work and complete hands-on video production and post-production editing with Adobe Premiere Rush. Students participate in activities such as planning, storyboarding, set design, filming, and editing to produce a variety of products including video montage, music videos, commercials, movie trailers, interviews and highlight films.

Advanced Video Production

- Length/credit: 1 semester - 0.5 credit
- Grade(s): 9, 10, 11, 12
- Prerequisite: Video Production
- Course Number: 09020500

Course Description: Advanced Video Production provides students with the opportunity to build upon the skills & knowledge gained throughout the video production course. This course allows students to develop advanced skills using Adobe Premiere Pro and Adobe After Effects as well as studio level equipment. Students incorporate these new skills, such as CGI, to create more advanced video projects. Students identify a particular area of interest i.e., documentary, short film, music video, and pursue it in greater detail.

Television Broadcasting

- Length/credit: 1 year - 1.0 credit
- Grade(s): 10, 11, 12

- Prerequisite: Advanced Video Production or by permission.
- Course Number: 09020600

Course Description: Television Broadcasting is a year-long course building upon the skills acquired in previous video production classes. Students enrolled in this course work collaboratively as members of production teams on numerous projects which will air on the Lower Merion School District's educational channel LMSDtv. These projects will focus on sports, student life, and entertainment. Students rotate assignments as camera operators, directors, talent, writers, and video editors. This course requires substantial responsibility on the part of the student.

Multimedia and Web Design

- Length/credit: 1 semester - 0.5 credit
- Grade(s): 9, 10, 11, 12
- Course Number: 09020200

Course Description: Students learn how to design and create spectacular web pages and web sites using web design software. Students learn basic HTML, and explore Adobe Dreamweaver to learn how to add content, structure, style, images, video, and social media to a webpage. Students are able to build effective and creative web pages while developing skills that are essential to achieve academic, business, and personal objectives.

Community Based Learning

Community Based Learning is a form of instruction that takes place in the "real world" and where a student learns by doing. This means that students can earn credit exploring careers and interests, working in a paid position, or doing community service. The student's individual experience serves as the primary content for Educational Field Experience, Cooperative Work Program, and Community Service Learning. All the Community Based Learning programs are excellent preparation and assistance for the senior project, as well as for future college and work opportunities. Students secure a service placement, internship, or a work position at a site with a supervisor. The program coordinator must approve any summer hours that the student might have an opportunity to complete, and that approval must be made in the spring prior to beginning the course.

Work Experience

- Length/credit: 1 year - 1 credit (requires 120 hours of work) or 0.5 credit (requires 60 hours of work)
- Grade(s): 10, 11, 12
- Course Number: 15110200

Course Description: This course is designed for students who want to use their jobs as a learning experience for academic credit. Major topics include forming healthy work relationships, personal integrity, ethics in the workplace, networking, interviewing, understanding your work environment, and career exploration. Students must also attend scheduled seminar meetings. The work program helps with college and career direction as well as contacts for your senior project. No summer hours are offered.

Important Facts:

- Work hours can be done during or after school time.
- Students must be actively on the job for most of each quarter in order to receive credit for that quarter.

Legal Provisions:

Students in the Cooperative Work Program are required to comply with the regulations established by the Commonwealth of Pennsylvania regarding employment. The rules are shown on the Application for Work Permit (PDE-4565).

Educational Field Experience

- Length: 1 semester - 0.5 credit (requires 60 hours of EFE)
- Grade(s): 10, 11, 12
- Course Number: 12020110

Course Description: This program offers an internship in the “real world” for academic credit. An internship (non-paid) is an opportunity to explore a career interest and have a unique and individualized high school experience. Non-paid internships are attractive to many professional settings, and they benefit the student by allowing the possibility of securing “hard to get” experiences. Completing an internship makes you more competitive in the college and job market. Students must also attend scheduled seminar meetings. This program often leads to contacts for your senior project.

Important Facts:

- Students may complete up to half of the required hours for the coming school year during the summer.
- Placements must be pre-approved in the spring for summer hours to count.
- During the school year hours can be done during or after school and/on weekends.

Educational Field Experience

- Length/credit: 1 year - 1.0 credit (120 hours)
- Grade(s): 10, 11, 12
- Course Number: 12020100

Course Description: This program offers an internship in the “real world” for academic credit. An internship is an opportunity for a student to explore a career interest and have a unique and individualized high school experience. Doing an internship makes a student more competitive in the college and job market. Students are required to participate in online academic activities as part of this course and must also attend scheduled seminar meetings. Seminar dates are posted on the student’s academic schedule. This program often leads to contacts for the senior project.

Important Facts:

- Students may complete up to half of the required hours for the coming school year during the summer.
- Placements must be pre-approved in the spring for summer hours to count.

- During the school year hours can be done during or after school time and on weekends.
- Students must meet with the coordinator either in seminars or individually.
- Attendance at seminars or individually scheduled meetings is mandatory.
- Job shadowing days are offered for hours.

Community Service Learning

- Length/credit: 1 year - 1.0 credit (120 hours) OR 1 semester - 0.5 credit (60 hours)
- Grade(s): 10, 11, 12
- Course Number: 12010110, 12010100

Course Description: How can one person make a difference in the world? How can a person learn more about the world outside of school? How can a student get involved in a service project? By signing up for the Community Service course, students have the opportunity to answer these and many other important questions while participating in a service project of choice. Students are required to participate in online academic activities as part of this course and must also attend scheduled seminar meetings. Seminar dates are posted on the student's academic schedule. Students use reflection, individual conferencing, and group discussions to facilitate learning. The program coordinator must approve all sites. This course may be taken twice for a total of one credit. It is offered Pass/Fail only.

Components of programs:

- Hours accumulated
- Seminar attendance
- Individual conferences
- Completion of assignments
- Evaluation of site supervisor
- Guest speaker opportunities

English

English Requirements

The English Department offers a program of study that enables all learners to acquire the knowledge and skills necessary to become productive, responsible citizens who have developed an understanding and appreciation of the role of critical thinking, reading, and writing in a rapidly changing and growing society. English 1 is required in the freshman year, and English 2 is required in the sophomore year. Junior and senior students have a choice of different courses among the following full-year English course options: Film and Literature; Heroes and Monsters: Classic British Literature; Modern and Contemporary Literature; Reading and Writing Non-Fiction; Sports in Literature and Non-Fiction; Voices in African American Literature; AP Language and Composition; or AP Literature and Composition. All courses include work in reading, writing, speaking, and listening. Every course option has common experiences to ensure continuity in skill development. A minimum

of one credit of English is required each year, and students may not take the same course more than once for credit.

When considering course levels, courses designated “honors” require students to hone their reading and writing skills with a higher degree of independence and with increasingly complex texts and tasks. In honors level courses, students are expected to demonstrate a greater level of analytical complexity in both their close reading and writing skills. The texts and assignments are also typically more challenging and expected to be completed with a higher degree of independence.

All full-year literature courses include a required summer reading component because the Department believes:

- Reading should be a part of every student’s daily life.
- Reading improves writing, deepens comprehension, builds background knowledge, and expands vocabulary.
- Summer provides time for students to enjoy uninterrupted reading.
- Summer reading allows students to thoughtfully digest the literary texts they will discuss during the opening weeks of school.

Students should be prepared both to write about summer reading selections and to discuss these texts in class during the opening weeks of school.

English 1

- Length/credit: 1 year - 1.0 credit
- Grade: 9
- Course Number: 01010202

Course Description: This course serves as a foundational approach to high school literacy, specifically reading, writing, speaking, and listening. This course introduces students to a variety of genres of fiction, drama, and poetry and their respective literary terms in preparation for further literature studies. Further, recognizing how history and language are impacted by social, cultural, and historic context, students learn to engage in critical reading and thinking skills to explore texts from representative authors across cultures and time periods. Through varied authorial and cultural experiences, students gain insight into their roles and responsibilities within a community in local and global contexts. Students examine how stories—through a variety of interpretations—reflect and shape communities. Critical thinking is a core tenet of the course, and students develop their capacity to read, write, speak, listen, and reflect. Through this course, students recognize the potential for impact one can have on the societies in which they live through writing, reading, speaking, listening, and reflecting.

English 1 H

- Length/credit: 1 year - 1.0 credit
- Grade: 9
- Course Number: 01010303

Course Description: This course serves as a foundational approach to high school literacy, specifically reading, writing, speaking, and listening. This course introduces students to a variety of genres of fiction, drama, and poetry and their respective literary terms in preparation for future literature studies. Further, recognizing how this course explores how story and language are impacted by social, cultural, and historic context, students learn to engage in critical reading and thinking skills to explore texts from representative authors across cultures and time periods. Through varied authorial and cultural experiences, students gain insight into their roles and responsibilities within “a community”, locally and globally. Students examine how stories—through a variety of interpretations—reflect and shape communities and highlights a responsibility to advocate for oneself and for others. Critical thinking is a core tenet of the course, and students develop their capacity to read, write, speak, listen, and reflect. Additionally, through this course, students are encouraged to recognize the potential impact one can have on the societies in which they live through writing, reading, speaking, listening, and reflecting. At the honors level, a high degree of inferencing is required. Due to the demands of reading and writing independently, students should have strong motivation, and the maturity to discuss literature on an abstract, figurative, and critical level.

English 2

Length/credit: 1 year - 1.0 credit

Grade: 10

Course Number: 01020202

Course Description: This course focuses on the study of canonical and contemporary American literature and the rhetorical analysis of non-fiction texts by American authors. The course is guided by three central questions: What is American literature? How does American literature reflect and challenge ideas about American identity? How does American literature reflect and challenge evolving definitions of the American Dream? As is the case in English 1, writing as an act of thinking is a core tenet of the course and learners are expected to hone their writing, reading, and thinking rather than merely completing assignments.

***The Keystone Literature Exam is given every May. Students enrolled in English 2 or English 2 Honors take the Keystone Literature Exam at that time.*

English 2 H

- Length/credit: 1 year - 1.0 credit
- Grade: 10
- Course Number: 01020302
- Prerequisites: It is recommended that interested students have grades of “A” or “B” in the previous year’s Honors English course assessments or an “A” in the previous year’s College Preparatory English course assessments.

Course Description: This course focuses on the study of canonical and contemporary American literature and the rhetorical analysis of non-fiction texts by American authors. The course is guided by three central questions: What is American literature? How does American literature reflect and challenge ideas about American identity? How does American literature reflect and challenge evolving definitions of the American Dream? As is the case in English 1, writing as an act of thinking is a core

tenet of the course and learners are expected to hone their writing, reading, and thinking rather than merely completing assignments. Students should have strong motivation, highly developed organizational and study skills, and the maturity to discuss literature on an abstract, figurative, and critical level. Students should be prepared for in-depth study, both independently and cooperatively. Students should be aware that the Honors-level course involves significantly more independent reading, both in terms of volume and pace. Students who are likely to be successful in this class will be motivated readers and writers.

***The Keystone Literature Exam is given every May. Students enrolled in English 2 or English 2 Honors take the Keystone Literature Exam at that time.*

Film and Literature or

Film and Literature H

- Length/credit: 1 year - 1.0 credit
- Grade(s): 11, 12
- Prerequisite for Honors: It is recommended that interested students have grades of “A” or “B” in the previous year’s Honors English course assessments or an “A” in the previous year’s College Preparatory English course assessments.
- Course Number: 01071002
- Course Number H: 010710003

Course Description: This course is centered between the study of film and the study of literature. This course focuses on developing an understanding of and appreciation for film techniques as well as honing close reading skills for analyzing an author’s craft in literature. Students analyze multiple versions of a story and evaluate how a film version interprets a literary text. Students also consider various conventions, genre expectations and historical/cultural contexts for both the films and literature studied in the course. The course relies heavily on both collaboration and independent work that students are expected to complete outside of school. Students who take this course at the honors level are expected to demonstrate exceptional performance in written and oral expression, critical thinking, and inferencing skills. Additionally, students should have strong motivation, highly developed organizational and study skills, and the maturity to discuss literature on an abstract, figurative, and critical level as well as the ability to engage with challenging texts independently and critically. Parents will be asked to sign permission forms for films that contain mature content.

Heroes and Monsters: Classic British Literature or

Heroes and Monsters: Classic British Literature H

- Length/credit: 1 year - 1.0 credit
- Grade: 11, 12
- Prerequisite for Honors: It is recommended that interested students have grades of “A” or “B” in the previous year’s Honors English course assessments or an “A” in the previous year’s College Preparatory English course assessments.
- Course Number: 01049102
- Course Number H: 01049103

Course Description: This course explores British literature's most profound, timeless, and engaging texts. Students analyze and discuss how heroes experience both courage and weakness when tested by external and internal "monsters." Students also examine cultural and historical influences on authors as well as trace the development of the English language over time. The journey begins in the 11th century and ends in contemporary times. The course challenges students to read and write critically and to pursue their personal curiosity through inquiry. Students who take this course at the honors level are expected to demonstrate exceptional performance in written and oral expression, critical thinking, and inferencing skills. Additionally, students should have strong motivation, highly developed organizational and study skills, and the maturity to discuss literature on an abstract, figurative, and critical level as well as the ability to engage with challenging texts independently and critically.

Modern and Contemporary Literature or

Modern and Contemporary Literature H

- Length/credit: 1 year - 1.0 credit
- Grade: 11, 12
- Prerequisite for Honors: It is recommended that interested students have grades of "A" or "B" in the previous year's Honors English course assessments or an "A" in the previous year's College Preparatory English course assessments
- Course Number: 01040222
- Course Number H: 01040223

Course Description: This course examines modern, worldwide literary texts drawn from a culturally and ethnically diverse collection of texts to gain insight into the role of literature as an expression of a society's values or as a challenge to the status quo. In addition to the major works covered, students will also read poetry, short stories, and independent texts. The teaching of writing is incorporated into the content. Students who take this course at the honors level are expected to demonstrate exceptional performance in written and oral expression, critical thinking, and inferencing skills. Additionally, students should have strong motivation, highly developed organizational and study skills, and the maturity to discuss literature on an abstract, figurative, and critical level as well as the ability to engage with challenging texts independently and critically.

Reading and Writing Non-Fiction or

Reading and Writing Non-Fiction H

- Length/credit: 1 year - 1.0 credit
- Grade: 11, 12
- Prerequisite for Honors: It is recommended that interested students have grades of "A" or "B" in the previous year's Honors English course assessments or an "A" in the previous year's College Preparatory English course assessments.
- Course Number: 01040232
- Course Number H: 01040233

Course Description: Students in this course read and carefully analyze a challenging range of nonfiction prose selections, as well as digital and visual texts, to deepen their awareness of rhetoric,

argument, and linguistics. Specific genres studied include memoir, literary nonfiction, social commentary and extended argument, and audiovisual documentaries. Through close reading and writing in diverse modes, including a research project, students develop their ability to understand texts with a greater awareness of audience, purpose, and strategy, while strengthening their own composition skills. Students learn to apply these strategies to visual and digital texts. Students who take this course at the honors level are expected to demonstrate exceptional performance in written and oral expression, critical thinking, and inferencing skills. Additionally, the honors class requires strong motivation, highly developed organizational and study skills, and the maturity to discuss literature on an abstract, figurative, and critical level as well as the ability to engage with challenging texts independently and critically.

Sports in Literature and Non-Fiction or

Sports in Literature and Non-Fiction H

- Length/credit: 1 year - 1.0 credit
- Grade(s): 11, 12
- Prerequisite for Honors: It is recommended that interested students have grades of “A” or “B” in the previous year’s Honors English course assessments or an “A” in the previous year’s College Preparatory English course assessments.
- Course Number: 01070802
- Course Number H: 01070803

Course Description: This literature-based and inquiry-focused course explores the ways that sports shape culture as well as how culture shapes the perception and reality of sports. Students explore works of literature as well as non-fiction pieces focused on high interest, self-selected and teacher-selected topics. Students are encouraged to make interdisciplinary connections in response to the literary texts and literature they study. Students who take this course at the honors level are expected to demonstrate exceptional performance in written and oral expression, critical thinking, and inferencing skills. Additionally, students should have strong motivation, highly developed organizational and study skills, and the maturity to discuss literature on an abstract, figurative, and critical level as well as the ability to engage with challenging texts independently and critically.

Voices in African-American Literature or

Voices in African-American Literature H

- Length/credit: 1 year - 1.0 credit
- Grade(s): 11, 12
- Prerequisite for Honors: It is recommended that interested students have grades of “A” or “B” in the previous year’s Honors English course assessments or an “A” in the previous year’s College Preparatory English course assessments.
- Course Number: 01070902
- Course Number H: 01070903

Course Description: Students in this course study works by African American authors through the lens

of contemporary issues related to race, culture, and identity in literature. This includes topics such as how literary characters and themes in African American literary works are shaped by gender, race, and/or class experiences and expectations. It also includes opportunities for students to consider how their lived experiences impact the reading of course text as well as how the lived experiences of African American authors influence the writing of text. Students who take this course at the honors level are expected to demonstrate exceptional performance in written and oral expression, critical thinking, and inferencing skills. Additionally, students should have strong motivation, highly developed organizational and study skills, and the maturity to discuss literature on an abstract, figurative, and critical level as well as the ability to engage with challenging texts independently and critically.

AP English Language and Composition

- Length/credit: 1 year - 1.0 credit
- Grade: 11, 12
- Prerequisite: It is recommended that interested students have grades of “A” or “B” previous Honors English course assessments and recommendation of the 10th grade teacher.
- Course Number: 01030404

Course Description: Advanced Placement Language and Composition uses close analysis of language, rhetorical strategy, and literary method to elevate reading and writing to a level expected in many first-year college courses. The curriculum examines prose from diverse periods and contexts and helps students grow in their understanding of the interplay between audience, purpose, and the resources of language and argument. The reading focuses mostly on non-fiction prose but does include analysis of literary and visual texts. Students write for diverse purposes, with increased attention to the role of research and synthesis in composing arguments. Timed in-class writing is a prominent but not a controlling aspect of the class. Students must be highly motivated and self-directed learners who are able to navigate complexity and to infer meaning with independence. Finally, the course assumes that students have control of standard written grammar, usage, and stylistic norms; this foundation is necessary for the advanced study of language that can help students progress towards stylistic maturity in their prose.

AP English Literature and Composition

- Length/credit: 1 year - 1.0 credit
- Grade: 11, 12
- Prerequisite: It is recommended that interested students have grades of “A” or “B” in all previous 9th, 10th, 11th grade Honors English course assessments or a grade of “A” or “B” in previous AP course assessments and a recommendation from the sending teacher.
- Course Number: 01040404

Course Description: Advanced Placement English Literature and Composition engages students in the careful, deliberate reading and critical analysis of imaginative literature. Through the close reading of selected texts, students deepen their understanding of the ways fiction writers and poets use language to provide both meaning and stylistic appreciation. Students examine style, structure, and themes as well as the use of figurative language and inferences leading to interpretive conclusions

about a work's meaning and value. Writing is an integral part of the course, and students focus on the critical analysis of literature including expository, analytical, and argumentative essays. The goal of writing in AP Literature is to increase a student's ability to explain clearly, cogently, even elegantly, what they understand about literary works and why they interpret them as they do. This course is taught at the college level and is designed to give students a critical and scholarly perspective in the analysis of challenging literature. Advanced Placement English Literature examines concurrent themes in a selection of world literature as determined by the AP canon. Timed in-class writing is a prominent but not controlling aspect of the class.

English Electives

Students may select from the following elective English courses in addition to required English courses.

Creative Writing or Creative Writing H

- Length/credit: 1 semester - 0.5 credit
- Grade(s): 10, 11, 12
- Prerequisite for Honors: It is recommended that interested students have a grade of "A" or "B" in previous Honors English courses, an "A" in previous College Preparatory English courses and current teacher recommendation.
- Course Number: 01050102
- Course Number H: 01050203

Course Description: Creative writing explores various creative literary forms including the short story, poem, essay, and script, stressing the development of a student's individual style. Students study various authors' methods and examine such techniques as plot progression, theme development, and creation of mood and atmosphere. Students explore the rich legacy of writers before them as they develop or increase their awareness of image, voice, character, setting, and story. Students read extensively from other writers as they apply that awareness in writing in a variety of forms. Students work closely in a workshop atmosphere, exchanging and critiquing the work of all group members. This course can be taken for college preparatory or honors credit. Assessments are designed accordingly.

Journalism or Journalism H

- Length/credit: 1 semester - 0.5 credit
- Grade(s): 10, 11, 12
- Course Number: 01050302
- Course Number H: 01050403

Course Description: Students learn writing styles and skills required in journalism. Classroom activities and assignments focus on writing for news, sports, feature opinion/editorial, and arts and entertainment pages. Along with learning the skills required to research and report news, students also study the history of the media and journalistic ethics. Students learn about the commercial and economic dynamics of the news media. The course examines the continual growth of electronic media and how technology affects the content and delivery of information. This course can be taken

for college preparatory or honors credit. Assessments will be designed accordingly.

IB Theatre SL (offered at Harriton High School only)

- Length/credit: 3 periods per cycle, 1 year - 1.0 credit
- Grade(s): 11, 12
- Course Number: 01061005

Course Description: This IB Theatre course consists of a multifaceted curriculum that engages students in the processes of creating, researching, presenting, and critically reflecting on theatre as participants and audience members. Through the study of theatre, students become aware of their own personal and cultural perspectives, developing an appreciation of the diversity of theatre practices and their processes. The course promotes international mindedness and enables students to discover and engage with different forms of theatre across time, place, and culture. The theatre core syllabus for IB Theatre HL and IB Theatre SL consist of three interrelated areas: Theatre in Context, which explores the various contexts of theatre and how they inform practice; Theatre Processes, in which students engage in the processes of transforming ideas into action; and Presenting Theatre, where students develop and apply theatre production, presentation and performance skills, working both independently and collaboratively. Assessment pieces include examining a play text, creating original theatre, and exploring performance practices from around the world. This course may also be taken by non-IB students. All students enrolled in this class are required to complete all International Baccalaureate assessments.

IB Theatre HL (Part 1) (offered at Harriton High School only)

- Length/credit: 3 periods per cycle, 1 year - 1.0 credit
- Grade(s): 11, 12
- Course Number: 01061105

Course Description: This is the first year of the two-year IB Theatre HL course. The IB Theatre course consists of a multifaceted curriculum that engages students in the processes of creating, researching, presenting, and critically reflecting on theatre as participants and audience members. Through the study of theatre, students become aware of their own personal and cultural perspectives, developing an appreciation of the diversity of theatre practices and their processes. The course promotes international mindedness and enables students to discover and engage with different forms of theatre across time, place, and culture. The theatre core syllabus for IB Theatre HL and IB Theatre SL consists of three interrelated areas: Theatre in Context, which explores the various contexts of theatre and how they inform practice; Theatre Processes, in which students engage in the processes of transforming ideas into Action; and Presenting Theatre, where students develop and apply theatre production, presentation, and performance skills, working both independently and collaboratively. Assessment pieces include examining a play text, creating original theatre, and exploring performance practices from around the world. This course may also be taken by non-IB students. All students enrolled in this class are required to complete all International Baccalaureate assessments.

IB Theatre HL (Part 2) (offered at Harriton High School only)

- Length/credit: 3 periods per cycle, 1 year - 1.0 credit
- Grade(s): 11, 12
- Prerequisite: Theatre HL (Part 1)
- Course Number: 01061205

Course Description: This is the second year of the two-year IB Theatre HL course. The IB Theatre HL course consists of a multifaceted curriculum that engages students in the processes of creating, researching, presenting, and critically reflecting on theatre as participants and audience members. Through the study of theatre, students become aware of their own personal and cultural perspectives, developing an appreciation of the diversity of theatre practices and their processes. The course promotes international mindedness and enables students to discover and engage with different forms of theatre across time, place, and culture. The theatre core syllabus for IB Theatre HL and IB Theatre SL consist of three interrelated areas: Theatre in Context, which explores the various contexts of theatre and how they inform practice; Theatre Processes, in which students engage in the processes of transforming ideas into action; and Presenting Theatre, where students develop and apply theatre production, presentation and performance skills, working both independently and collaboratively. Assessment pieces include examining a play text, creating original theatre, and exploring performance practices from around the world. This course may also be taken by non-IB students. All students enrolled in this class are required to complete all International Baccalaureate assessments.

Literacy Support Courses

This reading curriculum is designed for students who benefit from additional support in their comprehension and analysis of text. This curriculum includes services that support the development of students' literacy practices within and across academic contexts, providing them the support they need to develop as readers and writers. These courses are taken concurrently with the student's English course.

Literacy Lab

- Length/credit: 1 year (1 or 2 times per cycle) 0.33 credit
- Grade(s): 9
- Course Number: 14070100

Course Description: This course provides a small group setting in which students gain enrichment and reinforcement in analytical reading and writing skills to assist them in meeting literacy expectations across the curriculum. Students are recommended based on performance data (including but not limited to PSSA, Keystone, DRP) and teacher recommendation.

Literature Lab

- Length/credit: 1 year (1 time per cycle) 0.33 credit
- Grade: 10
- Course Number: 14070200

Course Description: This course provides a small group setting in which students gain enrichment and reinforcement in analytical reading and writing skills for mastery of common core literacy standards and success on the Keystone Literature Exam. Students are recommended based on performance data (including but not limited to PSSA, Keystone, DRP) and teacher recommendation.

Keystone Literature Lab

- Length/credit: 1 year (1 time per cycle) 0.33 credit
- Grade: 11
- Course Number: 14070300

Course Description: This course is designed to support students who may benefit from extra, individualized support to achieve or surpass literacy standards. Students engage in skill remediation as they prepare to retake the Keystone Literature Exam.

English Language Development (ELD)

The English Language Development (ELD) program is offered to students identified with Limited English Proficiency (LEP). The ELD curriculum is aligned with PA English Language Development Standards (ELDS) and courses are based on the proficiency levels and needs of the learners in the program with a focus on developing reading, writing, speaking, and listening skills. Instruction enables social, cultural, and academic discourse using oral and written English language. Student progress is monitored by formative and summative assessments and the annual WIDA ACCESS test until Pennsylvania State mandated reclassification criteria is met.

English Language Development 1 (ELD 1)

- Length/credit: 1 year - 1 credit
- Grade(s): 9, 10, 11, 12
- Prerequisite: ELD assessment and staff recommendation.
- Course Number: 13010100

Course Description: ELD 1 focuses on developing oral and written communication skills while building general and academic vocabulary. The course is offered for one or two sets and the placement is determined by student proficiency level, PDE guidelines, and need as recommended by the ELD Specialist.

English Language Development 2 (ELD 2)

- Length/credit: 1 year - 0.33 credit, 0.667 credit, or 1 credit
- Grade(s): 9, 10, 11, 12
- Prerequisite: ELD 1 and/or staff recommendation and an ELD assessment.
- Course Number: 13010200

Course Description: ELD 2 students understand and speak conversational English but continue to require support to meet grade level expectations for content courses. The ELD 2 curriculum is based on the learners' needs with a focus on developing academic language and skills like vocabulary, syntax, and grammar necessary for understanding content class materials. The course is offered for

one or two sets and placement is determined by student proficiency level, PDE guidelines, and need as recommended by the ELD Specialist.

English Language Development 3 (ELD 3)

- Length/credit: 1 year - 0.33 credit, 0.667 credit, or 1 credit
- Grade(s): 9, 10, 11, 12
- Prerequisite: ELD 2 and/or staff recommendation and an ELD assessment.
- Course Number: 13010400

Course Description: ELD 3 students are nearing proficiency in the four domains of English language development: reading, writing, listening, and speaking. The ELD 3 curriculum focuses on mastering academic language so students can access content class material with minimal support to help prepare them for reclassification upon reaching the exit criteria required by PDE. Students may be enrolled in this course 1-3 letter days per cycle and placement is determined by English proficiency level, PDE guidelines, and need as recommended by the ELD specialist.

Family and Consumer Science

Foods and Nutrition 1

- Length/credit: 1 semester - 0.5 credit
- Grade(s): 9, 10, 11, 12
- Course Number: 11020100

Course Description: This course focuses on students making food choices that ensure good nutrition according to the “MyPlate” food guide. Students will learn safe and sanitary food handling practices, proper storage, and cooking techniques while preparing food from the five parts of the plate: grains, vegetables, fruits, dairy, and meats/protein. Students learn the fundamentals of baking, including proper measuring and the function of ingredients. This course is focused on a hands-on approach in the food lab.

Foods and Nutrition 2

- Length/credit: 1 semester - 0.5 credit
- Grades: 9, 10, 11, 12
- Prerequisite: Foods and Nutrition 1
- Course Number: 11020300

Course Description: This course builds on the foundation from Foods and Nutrition 1. Students prepare a variety of recipes including appetizers, soups, stocks, salads, entrees, and desserts to further explore food preparation techniques. Students experiment with altering recipes in cooking and baking to enhance the nutrient profile of the dish. Students also explore current food trends and the impact of food in our rapidly changing world.

Baking and Confections

- Length/credit: 1 semester - 0.5 credit
- Grade(s): 9, 10, 11, 12

- Course Number: 11020400

Course Description: This course is intended for students who wish to further their exploration of baking and candy making techniques. Students are given the opportunity to examine the science behind various baking methods to learn that baking is as much a science as an art. Baking and Confections encourages students to use their artistic and imaginative skills to individualize food products through decorating, plating, and garnishing. Recipes include selections from: quick and yeast breads, cakes/cupcakes, icings, candy and chocolate, pies and tarts, cookies, custards, fruit desserts, frozen desserts, and dessert sauces. Lecture, assignments, student cooking labs, streaming tutorials, and teacher demonstrations provide for an introduction to the pastry kitchen.

Global Foods

- Length/credit: 1 semester - 0.5 credit
- Grade(s): 9, 10, 11, 12
- Prerequisite: Foods and Nutrition 1 or Baking and Confections
- Course Number: 11020200

Course Description: This course is primarily a study of regional and international cuisine. Students learn safe and sanitary food handling practices, proper storage, and cooking techniques while preparing dishes from around the world. This course is focused on a hands-on approach in the food lab.

Textiles and Clothing

- Length/credit: 1 semester - 0.5 credit
- Grade(s): 9, 10, 11, 12
- Course Number: 11040100

Course Description: Students develop an understanding of the characteristics of fibers and fabrics. Students will construct and alter textile products and apparel. Projects are selected based on student's preferences and levels of proficiency.

Advanced Textiles and Clothing

- Length/credit: 1 semester - 0.5 credit
- Grade(s): 9, 10, 11, 12
- Prerequisite: Textiles and Clothing
- Course Number: 11040200

Course Description: In this course, students further develop skills from the Textiles and Clothing course by creating custom designed projects. They develop an understanding of the basic components of fashion merchandising and retailing.

Child Development

- Length/credit: 1 semester - 0.5 credit
- Grade(s): 9, 10, 11, 12
- Course Number: 11030100

Course Description: In this course students experience a comprehensive study of children from birth to age 5. Emphasis is placed on the physical, social, emotional, and cognitive development of children in a local day care. A major emphasis is placed on brain development, learning environments, health concerns and positive interaction with children. Students visit an off-campus nursery school each week, develop projects for class and the day care center plus participate in class discussions.

Health and Physical Education

Health

- Length/credit: 1 semester - 0.5 credit
- Grade(s): 10, 11, 12
- Course Number: 08050100

Course Description: In this required course for all students in 10th grade, emphasis is placed on conceptual learning in the areas of personal health and wellness. The areas of study are an introduction to health, personality development, human development, effects of narcotics/alcohol/tobacco, addictions, AIDS, sexually transmitted diseases, nutrition, human sexuality, mental and emotional health, and values/decision making. The purpose of the course is to help students recognize the mental, social, and physical health issues they face during life and to promote strong, positive attitudes toward self and others and good health decisions.

Sports Medicine

- Length/credit: 1 semester - 0.5 credit
- Grade(s): 10, 11, 12
- Course Number: 08100102

Course Description: Students learn to assess injuries and apply injury management techniques to assist the healing of body tissues. Some of the class time will be spent in the athletic training room to explore different rehabilitation modalities and treatments.

9th Grade Physical Education

- Length/credit: 2 semesters per year; one per semester - 0.167 - 0.33 credit (must take for one year)
- Grade: 9
- Course Numbers: 08110100, 08110200

Course Description: This course is designed for students in 9th grade as an overview of the activities that are offered in the upper levels. It focuses on both individual and team games and sports. Students receive instruction in basic skills and strategies. In addition, this course focuses on teaching personal and social responsibility by emphasizing sportsmanship, leadership, and teamwork.

Physical Education 10

Physical Education 11

Physical Education 12

- Length/credit: 6 semesters (2 semesters per year-one per semester) - 0.167 - 0.33 credit (must take for three years)
- Grades: 10, 11, 12 select from the activities below.

Course Description: The purpose of physical education is to develop motor fitness, skill experiences, and knowledge that assist in improving and prolonging students' physical health. Students have the opportunity to participate in strength training, conditioning exercises as well as numerous team and individual activities. The fundamental goals are to help students improve their physical condition, to develop life-long habits of participation in physical activity, and to learn principles of physical conditioning. All students are required to schedule Physical Education each year.

Physical Education Electives

*The following courses are available to students in grades 10-12.

First Aid and C.P.R.

- Course Number for Fall Session: 08010280
- Course Number for Spring Session: 08010380

Course Description: This course is open to any student who is interested in a complete first aid course, which includes cardiopulmonary resuscitation. American Red Cross certification is granted to those who complete the course successfully. A nominal fee may be collected from each student to offset the cost of materials.

Yoga/Pilates

- Course Number for Fall Session: 08010260
- Course Number for Spring Session: 08010360

Course Description: Designed to introduce students to the basic postures, breathing techniques, and relaxation methods of yoga and Pilates. Students begin to practice and experience the benefits of stretching, movement, and breath in an effort to practice these skills and learn to relax, relieve stress and improve their personal fitness.

Racquet Sports

- Course Number for Fall Session: 08010270
- Course Number for Spring Session: 08010370

Course Description: Designed for students to learn and participate in skills and activities used for paddle and racquet games. Students begin by learning the basic skills needed to strike an object using paddles and racquets. As the students become more skilled, they begin incorporating the skills and strategies into team play to accomplish goals set by themselves and the teacher at the beginning of the course. The skills learned in this course are skills that can be incorporated in activities throughout

their lifetime. Games such as tennis, racquetball, badminton, pickleball, and table tennis are all games that require the skills and strategies that are taught throughout this course.

Self Defense

- Course Number for Fall Session: 08010230
- Course Number for Spring Session: 08010330

Course Description: You may only take this course one time during your four years. Designed to make you more aware, prepared, and ready for any situation that you may need to protect yourself. Students learn self-protection, evading and escaping techniques. This course is designed to teach empowerment, so each of the students has the confidence to protect and to defend him/herself. The nature of self-defense should be calming and reassuring.

Strength Training

- Course Number for Fall Session: 08010240
- Course Number for Spring Session: 08010340

Course Description: Weight training or resistance training is an exercise that utilizes progressive resistance movements, typically with free weights or weight machines, to build strength or muscle endurance. Body weight, resistance band, kettlebell exercises are also taught throughout the semester. Students assess their individual fitness level and use the results to develop a goal-oriented fitness program to follow throughout the semester.

Team Sports

- Course Number for Fall Session: 08010250
- Course Number for Spring Session: 08010350

Course Description: Designed for students who wish to participate in an advanced physical education experience that will focus specifically on team games and sports. Students receive instruction in advanced skills and strategies to participate in invasion games, such as flag-football, basketball, Tchoukball, ultimate frisbee, and floor hockey, and striking games, such as whiffle ball, and soccer. In addition, this course will focus on teaching personal and social responsibility by emphasizing sportsmanship, leadership and teamwork.

Fall Semester – Football, Basketball, and Tchoukball.

Spring Semester – Ultimate Frisbee, Soccer, Floor Hockey, Wiffleball/Harriton Ball and 4-way.

Partners in Adaptive Physical Education

- Length/credit: 2 semesters per year - 0.167 credit per semester
- Grade(s): 10, 11, 12
- Course Numbers: 08090500, 08090600, 08090700, 08090510, 08090610, 08090710

Course Description: The purpose of this course is to allow students the opportunity to serve as peer trainers, peer coaches, peer leaders, and most importantly “peer partners” to our special needs’ population. As classmates and teammates, students without disabilities can take a leadership role

and support students who need assistance with skills as mentors, but in a non-hierarchical environment of equality where they know that they can learn from those students as well. Students have the opportunity to adapt physical education activities/skills and develop excellent interpersonal communication skills, while working closely with a Physical Education Teacher. If you enjoy the Best Buddies program, you will love this class. Expect to learn patience, develop friendships, and care for others.

Aquatics Courses at Lower Merion High School

Swimming Instruction (Aquatics) - offered at Lower Merion High School only

- Length/credit: 1 semester - 0.125 credit
- Grade(s): 10, 11, 12
- Course Number: 08070110

Course Description: This course is open to all students. The course offers the opportunity to engage in a wide range of aquatic experiences. Students can learn to swim or improve their present swimming ability. Students may work on fitness swimming, creating individualized workouts. Kayaking skills are taught to those interested. Students can learn basic diving skills and apply those the skills to the one-meter springboard. There are opportunities to work on your own teaching skills. Many students use the course to prepare for Lifeguard Training. Students can learn water polo skills and other aquatic games.

Lifeguard Training - offered at Lower Merion High School only

- Length/credit: 1 semester - 0.125 credit
- Grade(s): 10, 11, 12
- Course Number: 08080110

Course Description: The primary purpose of the course is to provide participants with the knowledge and skills needed to: (1) prevent, recognize and respond to emergencies (2) provide professional-level care for breathing and cardiac emergencies, injuries and illnesses until more advanced care takes over. Students should be competent swimmers. Pursuing certification is limited to those who meet the minimum age requirement (15 by the end of the course) and have successfully completed the prerequisite swimming skills evaluation.

Mathematics

Course Sequences in Mathematics

While three credits of math at the high school level are required for graduation, students are recommended to enroll in math courses during all four years of high school as part of a well-rounded education in preparation for college and careers. A variety of math courses at the College Prep, Honors, AP, and IB level are offered to students. In addition, a number of support courses are offered to provide students with intervention and/or remediation in mathematics.

Courses labeled H (Honors) require that students be able to operate in an environment where both

high degrees of independence and thoughtful collaboration are necessary. A prior demonstration of advanced mathematical reasoning and insight through a variety of measures and a record of high levels of achievement are indicators that a student is sufficiently prepared for the rigors of Honors level work. Appropriate formal mathematical and scientific language are used extensively.

Calculator Philosophy

The mathematics department is committed to using graphing calculators and other forms of technology to enhance and facilitate student learning. Calculator usage is incorporated into the curriculum when such usage is appropriate and supportive of mathematical concept and/or skill development. Graphing calculators are used to compare and contrast the symbolic, numeric, and graphic nature of mathematical concepts and to solve more complex problems. Courses where calculators are used more frequently are clearly indicated in the course descriptions. Students enrolled in these courses will need a graphing calculator. The TI-84 family of calculators are strongly recommended.

Integrated Math 1

- Length/credit: 1 year - 1.0 credit
- Grade(s): 9, 10, 11, 12
- Course Number: 03150102

Course Description: This course is the first in a series of three integrated math courses and is designed to combine some of the basic principles of Algebra, Geometry, and Statistics. Students deepen and extend their understanding of linear relationships and are introduced to exponential functions, modeled through data. Students use properties and theorems involving congruent figures to expand and broaden understanding of geometric knowledge. Students experience mathematics as a coherent, useful, and logical subject that draws on their ability to make sense of problem situations and develop the ability to explore and solve mathematical problems, think critically, work cooperatively with other students, and communicate mathematical ideas clearly.

Integrated Math 2

- Length/credit: 1 year - 1.0 credit
- Grade(s): 9, 10, 11, 12
- Prerequisite: Successful completion of Integrated Math 1.
- Course Number: 03150202

Course Description: This course is the second in a series of three integrated math courses and is designed to develop an intermediate understanding of the principles of Algebra, Geometry, and Statistics. Students connect and extend topics from Integrated Math 1 and are introduced to Quadratic Functions, Similarity and Congruence, Circles, Basic Trigonometric Functions and Probability. Students experience mathematics as a coherent, useful, and logical subject that draws on their ability to make sense of problem situations, and further develop the ability to explore and solve mathematical problems, think critically, work cooperatively with other students, and communicate mathematical ideas clearly.

**The Keystone Algebra exam will be given annually. Students enrolled in Integrated Math 2 will take the Keystone exam.

Integrated Math 2 H

- Length/credit: 1 year - 1.0 credit
- Grade(s): 9, 10, 11, 12
- Prerequisite: Recommended “A” or “B” on assessments in Integrated Math 1.
- Course Number: 03150403

Course Description: This course is a faster-paced version of the second in a series of three integrated math courses and is designed to develop an intermediate understanding of the principles of Algebra, Geometry, and Statistics. Students connect and extend topics from Integrated Math 1 and are introduced to Quadratic Functions, Similarity and Congruence, Circles, Basic Trigonometric Functions and Probability. This version of the course will delve significantly deeper into the various topics and includes additional extension topics that are not part of the college preparatory version of Integrated Math 2. Students experience mathematics as a coherent, useful, and logical subject that draws on their ability to make sense of problem situations, and further develop the ability to explore and solve mathematical problems, think critically, work cooperatively with other students, and communicate mathematical ideas clearly.

**The Keystone Algebra exam will be given annually. Students enrolled in Integrated Math 2 will take the Keystone exam.

Integrated Math 3

- Length/credit: 1 year - 1.0 credit
- Grade(s): 9, 10, 11, 12
- Prerequisite: Successful completion of Integrated Math 1 and 2.
- Course Number: 03150302

Course Description: This course completes the three-course series of integrated mathematics and is designed to extend and apply the principles of Algebra, Geometry, and Statistics learned in the previous two courses to more complex mathematical scenarios. Students expand earlier knowledge of linear, exponential, and quadratic functions to polynomials, rational functions, and trigonometric functions. Students also extend their previous work with circles to other conic sections, their understanding of trigonometry to all triangles, and experiences with data as they solve more sophisticated problems. Students experience mathematics as a coherent, useful, and logical subject that draws on their ability to make sense of problem situations, and further develop the ability to explore and solve mathematical problems, think critically, work cooperatively with other students, and communicate mathematical ideas clearly.

Integrated Math 3 H

- Length/credit: 1 year - 1.0 credit
- Grade(s): 9, 10, 11, 12
- Prerequisite: Recommended “A” on assessments in Integrated Math 2 or “B” on assessments in Integrated Math 2 H.

- Course Number: 03150503

Course Description: This course is a faster-paced version of the final course in the three-course series of integrated mathematics and is designed to extend and apply the principles of Algebra, Geometry, and Statistics learned in the previous two courses to more complex mathematical scenarios. Students expand earlier knowledge of linear, exponential, and quadratic functions to polynomials, rational functions, and trigonometric functions. Students also extend their previous work with circles to other conic sections, their understanding of trigonometry to all triangles, and experiences with data as they solve more sophisticated problems. This version of the course will delve significantly deeper into the various topics and includes additional extension topics that are not part of the college preparatory version of Integrated Math 3. Students experience mathematics as a coherent, useful, and logical subject that draws on their ability to make sense of problem situations, and further develop the ability to explore and solve mathematical problems, think critically, work cooperatively with other students, and communicate mathematical ideas clearly.

Math Support Courses

Algebra Lab

- Length/credit: 1 year (1 time per cycle) 0.33 elective credit
- Grade(s): 9, 10, 11, 12
- Pass/Fail
- Course Number: 03010000

Course Description: The purpose of this course is to provide once a cycle support to students in their study of mathematics as an intervention and preventative measure. It is a supplement to their regular Integrated Math class. Students are enrolled in Algebra Lab based on a variety of measures, including their most recent math PSSA results, benchmark assessment results, Keystone Algebra Exam results, overall grades in recent math courses, and teacher input/recommendation.

Advanced Mathematics Courses

Pre-Calculus

- Length/credit: 1 year - 1.0 credit
- Grade(s): 10, 11, 12
- Prerequisite: Students should have an assessment grade of C or better in a completed Integrated Math 3 or Integrated Math 3 H course.
- Course Number: 03030102

Course Description: This course includes extensive work with polynomial, rational, exponential, inverse, and logarithmic functions. Fundamental ideas of trigonometric functions (triangular and circular), trigonometric identities and formulas are developed. The processes involved in interpreting and evaluating functions are explored algebraically, graphically and with technology. Connections are made between functions and their practical applications throughout the course. **A TI-84 graphing calculator is required.**

Pre-Calculus H

- Length/credit: 1 year - 1.0 credit
- Grade(s): 10, 11, 12
- Prerequisite: It is recommended that students have a grade of “A” or “B” on assessments in Integrated Math 3 H.
- Course Number: 03030203

Course Description: This course includes extensive work in mathematical induction, trigonometry, circular, exponential, logarithmic and inverse functions, series, combinatorics, limits and derivatives. Calculus concepts are developed theoretically and include applications. Modeling is used extensively throughout the course. The algebraic, numeric, and graphic nature of topics are compared and contrasted to enhance and broaden comprehension. Group collaboration outside of the class is an essential part of the course. Successful completion of this course prepares students for Advanced Placement Calculus (BC or AB). **A TI-84 graphing calculator is required.**

Financial Algebra

- Length/credit: 1 year - 1.0 credit
- Prerequisite: Students must have successfully completed Integrated Math 2.
- Grade(s): 11, 12
- Course Number: 03140102

Course Description: In Financial Algebra, students refine mathematical skills developed in previous courses in the context of financial topics. Mathematical skills include linear and quadratic equations, systems of equations, exponential and logarithmic functions, piecewise functions, descriptive statistics, probability, regression, and correlation. These mathematical skills are modeled through such topics as stock market, business applications, banking services, retirement planning, preparing a budget, and consumer credit. **A TI-84 graphing calculator is required.**

Statistics

- Length/credit: 1 year - 1.0 credit
- Grade(s): 11, 12
- Prerequisite: Students must have successfully completed Integrated Math 2 or Integrated Math 2 H.
- Course Number: 03050102

Course Description: This is a first course in statistics with an emphasis on both descriptive and inferential statistics, counting techniques, and probability. Experimental design along with correlation/regression techniques are also studied. Please note that this course may be taken concurrently with other advanced math courses following the successful completion of Integrated Math 2 or Integrated Math 2 H. **A TI-84 graphing calculator is required.**

AP Statistics

- Length/credit: 1 year - 1.0 credit
- Grade(s): 10, 11, 12

- Prerequisite: It is recommended that students have a grade of “A” or “B” on assessments in Integrated Math 3H or a grade of “A” on assessments in Integrated Math 3.
- Course Number: 03050204

Course Description: This course is designed to prepare the student for the College Board’s AP Statistics exam. Major themes include exploratory data analysis, planning a study, probability, and statistical inference. Students should have an independent approach to learning with minimal need for guidance and assistance. Please note that this course may be taken concurrently with other advanced math courses, following the successful completion of Integrated Math 3 or Integrated Math 3H with the recommended grade. **A TI-84 graphing calculator is required.**

Calculus

- Length/credit: 1 year – 1.0 credit
- Grade(s): 10, 11, 12
- Prerequisite: Successful completion of Pre-Calculus or Pre-Calculus H.
- Course Number: 03060102

Course Description: This course is designed as a college preparatory course in the calculus of one variable. It begins with a review of functions and their graphs and continues with the study of limits, derivatives and their applications, Riemann sums, integration, and applications of the definite integral. **A TI-84 graphing calculator is required.**

AP Calculus AB

- Length/credit: 1 year – 1.0 credit
- Grade(s): 11, 12
- Prerequisite: It is recommended that students have a grade of “A” or “B” on assessments in Pre-Calculus CP or a “C” or better on assessment in Pre-Calculus H.
- Course Number: 03060204

Course Description: This course is the equivalent of a first semester college calculus course and prepares students to take the AP Calculus AB exam. Students who enroll in this class should be prepared for high levels of independent work and group collaboration outside of class. This course includes theory of limits, derivatives, the Fundamental Theorem of Calculus, definite and indefinite integrals and their applications. **A TI-84 or higher graphing calculator is required.**

AP Calculus BC

- Length/credit: 1 year - 1.0 credit
- Grade(s): 11, 12
- Prerequisite: It is recommended that students have a grade of “A” on assessments only in Pre-Calculus H or have successfully completed AP Calculus AB.
- Course Number: 03060304

Course Description: This course is planned for students who wish to complete a rigorous calculus course equivalent to that of the most competitive university level courses. Students who enroll in AP

Calculus BC should have mastery of skills developed in Pre-Calculus H; an independent approach to learning, and a healthy appetite and intellectual curiosity for exploring rigorous college level math in high school. Topics include theory and applications of differential and integral calculus, infinite series, and differential equations as related to science, history, the arts, and the natural world. **A TI-84 or higher graphing calculator is required.**

Mathematics Seminar H – Post AP Calculus BC

- Length/credit: 1 year - 1.0 credit
- Grade: 11, 12
- Prerequisite: It is recommended that students have a grade of “A” or “B” in AP Calculus BC.
- Course Number: 03080103

Course Description: This course is designed for exceptionally capable students of mathematics who have completed the AP Calculus BC course. Some of the great theorems and ideas of mathematics will be studied. Additional topics will be selected from among the following: formal logic, math history, statistics theory, differential equations, linear algebra, complex numbers, as well as others. While some time will be spent in formal instruction, a significant portion of time will include student independent study and research. Students will explore topics and report their findings.

Advanced Topics in Linear Algebra & Discrete Mathematics H

- Length/credit: 1 year - 1.0 credit
- Grade(s): 11, 12
- Prerequisite: Students must have successfully completed Calculus or AP Calculus.
- Course Number: 03130103

Course Description: Topics include linear algebra, combinatorics, probability and expected value, logic and critical argument. Students complete a mathematical exploration fusing current and past mathematical content resulting in an opportunity for independent research.

Computer Science

All computer science courses are offered at the Honors and AP level.

Computer Science 1 H

- Length/credit: 1 semester - 0.5 credit
- Grade(s): 9, 10, 11, 12
- Prerequisite: Integrated Math 1
- Course Number: 03070103

Course Description: Computer Science 1 H is an introduction to the principles of computer science. Students use the Java programming language to study foundational topics including declaring and using variables, input and output, type conversion, control statements and repetition statements. The course places a heavy emphasis on problem solving and abstract thinking as students develop skills that will provide direct benefits across curriculums.

Computer Science 2 H

- Length/credit: 1 semester - 0.5 credit (offered Spring Semester only)
- Grade(s): 9, 10, 11, 12
- Prerequisite: Computer Science 1 H
- Course Number: 03070203

Course Description: Students build upon the understanding of the Java programming language that was developed in Computer Science 1 H and further explore the foundational concepts introduced in that course. Content includes user-defined methods, arrays, reading from and writing to files, designing classes and graphics. Emphasis is placed on the student's ability to run, debug, and troubleshoot a program. It is recommended that students sign up for Comp Sci 1H or 2H so they get a seamless full year experience.

AP Computer Science Principles

- Length/credit: 1 year - 1.0 credit
- Grade(s): 9, 10, 11, 12
- Prerequisite: Integrated Math 1
- Course Number: 03070804

Course Description: This course introduces students to programming and coding along with various computer science applications including a multi-disciplinary approach to teaching the underlying principles of computation. The course introduces students to the creative aspects of programming, abstractions, algorithms, large data sets, the Internet, cybersecurity concerns and computing impacts. AP Computer Science Principles also gives students the opportunity to use current technologies to create computational artifacts for self-expression and problem solving.

AP Computer Science A

- Length/credit: 1 year - 1.0 credit
- Grade(s): 10, 11, 12
- Prerequisite: It is recommended that students have a grade of "A" or "B" in Computer Science 2 H or AP Computer Science Principles.
- Course Number: 03070304

Course Description: AP Computer Science A prepares students to take the Advanced Placement examination in computer science. In the class, students learn object-oriented programming using Java. The topics include program design and definition, data types, algorithm development, modularization, methods, arrays, sorting and searching, classes, abstractions, and the AP Computer Science Case Study. Emphasis will be placed on problem solving, algorithm methodology, and the ability to debug and troubleshoot.

Artificial Intelligence and Machine Learning H

- Length/credit: 1 semester - 0.5 credit
- Grade(s): 10, 11, 12
- Prerequisite: Successful completion of AP Computer Science A.

- Course Number: 03070603

Course Description: This one semester elective course fosters students' creativity and innovation by presenting opportunities to design, implement and present meaningful programs such as machine learning. This course provides a broad introduction to machine learning, datamining, and statistical pattern recognition. The course draws from numerous case studies and applications, so students learn how to apply learning algorithms to text understanding (web search, anti-spam), computer image detection, audio, datamining, and other areas. Students collaborate with one another, mentors from the community, and their instructor to solve the problems presented in the course.

Cybersecurity H

- Length/credit: 1 semester - 0.5 credit
- Grade(s): 10, 11, 12
- Prerequisite: Successful completion of AP Computer Science A.
- Course Number: 03070703

Course Description: This one semester elective course provides learners with principles of data and technology that frame and define cybersecurity. Learners gain insight into the importance of cybersecurity and the integral role of cybersecurity professionals. The course provides a dynamic learning experience where users explore foundational cybersecurity principles, cryptography, security architecture, risk management, attacks, incidents, and emerging IT and IS technologies as well as explore and correct computer security vulnerabilities.

Computer Science Seminar H

- Length/credit: 1 year - 1.0 credit
- Grade(s): 10, 11, 12
- Prerequisite: Successful completion of AP Computer Science A.
- Course Number: 03070503

Course Description: Students study advanced programming concepts including data structures such as stacks, hash tables and trees, application development using the Swift programming language, database design, and implementation of Graphical User Interfaces. Students are also given the opportunity to work collaboratively to explore other programming concepts that are of interest. This course fosters student creativity and innovation by presenting opportunities to design, implement, and present meaningful programs. Students collaborate with one another and their instructor to solve the problems presented throughout the course. Through data analysis, students identify task requirements and use computer science concepts to access, analyze, and evaluate information needed to solve problems. Students learn digital citizenship by researching current laws and regulations and by practicing integrity and respect.

Music

All students have the opportunity to continue to develop their music skills in an array of music courses designed for students at all levels of talent and ability. All Instrumental and Vocal music courses are major subjects for which students receive a full credit. By individual arrangement, music

students at all levels may arrange individual and/or small group practice periods during their frees or study halls. Please see your music teacher and counselor to schedule individually.

Concert Choir H

- Length/credit: 1 year - 1.0 credit
- Grade(s): 9, 10, 11, 12
- Prerequisite: It is recommended that interested students obtain the signature of the high school instructor.
- Course Number:
 - Concert Choir H A - 07010202
 - Concert Choir H - 07010203

Course Description: This is an advanced course designed for the student who wishes to further develop vocal and music skills and to deepen understanding through the study and performance of choral music of various historical periods and genres. Through class rehearsals and performances, students will acquire technical proficiency in vocal technique; tonal and rhythm skills; elements of basic musicianship; and understanding of how all of these relate to style. Students must attend all dress rehearsals and all public performances of the group. Concert choir students may audition for PMEA District 11. Independent Study is not possible for a group performance class.

Concert Band H

- Length/credit: 1 year - 1.0 credit
- Grade(s): 9, 10, 11, 12
- Prerequisite: It is recommended that interested students obtain the signature of the high school instructor.
- Course Number: 07020203

Course Description: This course is a performance course for students who play woodwind, brass, and percussion instruments. Students will study and perform various genres of band repertoire by many different composers. Daily class rehearsals and culminating performances will allow students to continue the development of technique and ability on their respective instrument; tonal and rhythm skills; elements of basic musicianship; and an understanding of how all of these relate to style. Students are expected to attend all dress rehearsals and all public concert performances, including school functions and community events. The course is open to all students who want to pursue a collaborative high school band experience. Students are evaluated based on the PMEA (Pennsylvania Music Educators Association) District 11 Band/Orchestra audition material. Independent Study is not possible for a group performance class.

Symphony Orchestra H

- Length/credit: 1 year - 1.0 credit
- Grade(s): 9, 10, 11, 12
- Prerequisite: It is recommended that interested students obtain the signature of the high school instructor. An audition is required (LMHS only).
- Course Numbers:

- Symphony Orchestra H - Winds A - 07030201
- Symphony Orchestra H - Strings A - 07030202
- Symphony Orchestra H - Strings - 07030203

Course Description: In this class, students' study and perform orchestral repertoire of various historical periods and genres. Daily class rehearsals allow students to continue the development of technique and ability on their respective instrument; tonal and rhythm skills; elements of basic musicianship; and an understanding of how all of these relate to style. This course is open to students who want to pursue a collaborative high school orchestra experience. Students are expected to attend all dress rehearsals and all public concert performances and perform for selected school functions and local community events. Students are evaluated based on the PMEA (Pennsylvania Music Educators Association) District 11 Band/Orchestra audition material. Independent Study is not possible for a group performance class. Harriton only: this course is for string players only.

Music and Modern Culture

- Length/credit: 1 semester - 0.5 credit
- Grade(s): 9, 10, 11, 12
- Course Number: 07040100

Course Description: This one semester course offers students opportunities from musical trends from Ragtime to Rap and their impact on the development of modern American culture. The course will study the main ideas that form the movements and the major musicians who have contributed to our current aesthetics. The course will also look at the influence musicians have had on other musicians. No musical training is necessary for this course.

Electronic Piano Lab

- Length/credit: 1 semester - 0.5 credit
- Grade(s): 9, 10, 11, 12
- Course Number: 07070200

Course Description: While this course is designed for beginning students with limited or no musical background, intermediate and advanced pianists may also take this course to further their piano technique and musical approach. Treble and bass clef note reading, chord realization and proper hand positions will be covered and individually monitored. Full-sized electronic keyboards (with headsets) and computer stations are provided for each student.

Music Technology and Production 1

- Length/credit: 1 semester - 0.5 credit
- Grade(s): 9, 10, 11, 12
- Course Number: 07070100

Course Description: Music Technology & Production seeks to give students a basic understanding of concepts in music technology. The course covers musical topics such as song form, piano skills, rhythm, melody, chord progressions, and provides ample opportunity for students to compose. From a technological standpoint, the class starts at the basics of functioning in a Digital Audio Workstation

(DAW) and progresses through audio manipulation, quantization, microphone usage and technique, automation, and synthesizers. Students will put themselves in the roles of mixing engineers, film score composers, and recording artists throughout the course of the class in simulated experiences in the music technology field.

Music Technology & Production 2

- Length/credit: 1 semester - 0.5 credit
- Grade(s): 9, 10, 11, 12
- Course Number: 07070300

Course Description: Music Technology & Production 2 seeks to expand on topics addressed in the first level of the course sequence as well as introduce new, more advanced subjects in the music technology realm. Musically, students will continue to compose music with the involvement of various analog and digital instruments and use digital signal processing to enhance their musical performances. This course will have students working with advanced programming within the Digital Audio Workstation (DAW) and learn to manipulate and effectively employ these tools. Students will continue to advance their experiences in the roles of mixing engineers, film score composers, and recording artists throughout the course of the class in simulated experiences in the music technology field.

Music Technology & Production 3 H

- Length/credit: 1 year – 1.0 credit
- Grade(s): 10, 11, 12
- Course Number: 07070400

Course Description: Music Technology & Production 3 seeks to expand on prior levels of this course sequence and focus more heavily on the recording process over the course of a full year. Students will, by the end of this class, have the knowledge to execute a high-quality recording session as both a recording engineer and producer. Using a wide range of tools, this course provides students the opportunity to find their own voice as a musician, producer, and artist. Students will continue to advance their experiences in real-world music industry scenarios as session engineers, podcasters, mixers/producers, composers, as well as vocal and instrumental recording technicians.

Music Technology & Production 4 H

- Length/credit: 1 year – 1.0 credit
- Grade(s): 11, 12
- Course Number: 07070503

Course Description: Music Technology & Production 4 continues to expand on topics addressed in prior levels in this course sequence and will focus on sound synthesis as well as post-production. Students will be working with studio-level audio processing software in order to shape their music in a more professional manner. In this class, students will also learn about the world of synthesized sound and will be using both analog and digital tools to create their own unique sounds. Students will encounter highly-complex topics in the music industry in regards to mixing and mastering, audio repair, sound synthesis, and sampling.

Music Major H

- Length/credit: 1 year - 1.0 credit
- Grade(s): 10, 11, 12
- Prerequisite: It is recommended that interested students have the basic knowledge of elementary music principles through at least one year of high school instrumental or vocal training. Signature of the instructor is required.
- Course Number: 07050113

Course Description: This course is designed for the student who wishes to engage in an intensive study of the fundamentals of music. It is especially recommended for students who plan to pursue music, either vocationally or recreationally. The course includes theory, ear-training, sight-singing, composition, analysis, and historical perspective. Access to a keyboard instrument or willingness to schedule personal time on school pianos is required.

AP Music Theory

- Length/credit: 1 year - 1.0 credit
- Grade(s): 11, 12
- Prerequisite: Interested students should obtain the signature of the instructor.
- Course Number: 07050204

Course Description: This course offers the serious student an opportunity to study music in a course that is accepted by many colleges for credit. The course content follows the syllabus for the College Board Advanced Placement Program. Students are expected to develop advanced skills in aural theory, sight singing, composition and analysis. These areas are developed through listening, performance, writing, as well as creative and analytical exercises.

IB Music-SL - offered at Harriton High School only

- Length/credit: 1 year - 1.0 credit
- Grade(s): 11, 12
- Course Number: 07060105

Course Description: The Standard Level IB Music course is designed for those with a strong interest in music. The students' passion for music is fostered through four main areas of inquiry: 1) Music for sociocultural and political expression, 2) Music for listening and performance, 3) Music for dramatic impact, movement and entertainment, 4) Music technology in the electronic and digital age. Flexibility is given for students to pursue their own musical path while exploring the different elements of what it is to be a researcher, creator, and performer (a well-rounded musician). Students access their musical experiences from personal, local, and global contexts. Digital uploads of selected portfolio segments are required as evidence of student coursework, based on International Baccalaureate guidelines. This course is also available to non-IB students. All students enrolled for the course are required to complete all IB assessments.

IB Music-HL (Part 1) - offered at Harriton High School only

- Length/credit: 1 year - 1.0 credit
- Grade(s): 11

- Course Number: 07060205

Course Description: This course is the first year of the two-year Higher Level IB Music course. Designed for those with a strong interest in music, the students' passion for music is fostered through four main areas of inquiry: 1) Music for sociocultural and political expression, 2) Music for listening and performance, 3) Music for dramatic impact, movement and entertainment, 4) Music technology in the electronic and digital age. Flexibility is given for students to pursue their own musical path while exploring the different elements of what it is to be a researcher, creator, and performer (a well-rounded musician). Students access their musical experiences from personal, local, and global contexts, while gathering and maintaining evidence of their coursework through an electronic portfolio. This course is also available to non-IB students. All students enrolled for the course are required to complete all IB assessments.

IB Music-HL (Part 2) - offered at Harriton High School only

- Length/Credit: 1 year - 1.0 credit
- Grade(s): 12
- Prerequisite: IB Music HL (Part 1)
- Course Number: 07060305

Course Description: This course is the continuation of IB Music-HL (Part 1), fostering a greater awareness and understanding of both the power and variety of musical experiences. The focus of the course continues to tap into the students' passion for music through four main areas of inquiry (see HL Music Part 1). Existing electronic portfolios continue to be developed, maintained, and refined. The final outcome is a collaborative project, inspired by real life practices in contemporary music-making. Combining the roles and skills of researcher, creator and performer, students will design, develop, and implement a modern music experience, documented in a 15-minute multimedia summary presentation. Digital uploads of selected portfolio segments as well as The Contemporary Music Maker project are required as evidence of student coursework, based on International Baccalaureate guidelines. This course is also available to non-IB students. All students enrolled for the course are required to complete all IB assessments.

Science, Technology, and Engineering

Courses in Science, Technology, and Engineering

While three credits of science at the high school level are required for graduation, students are recommended to enroll in science, technology, and engineering courses during all four years of high school as part of a well-rounded education in preparation for college and careers. A variety of science, technology, and engineering courses at the college prep, honors, and AP level are offered to students. It is recommended that all students planning to attend college (including technical, 2 year, or 4 year programs) take Biology, Chemistry, and Physics as a foundation; as well as any other science, technology, or engineering course of interest.

Biology Courses

Biology

- Length/credit: 1 year - 1.0 credit
- Grade: 9
- Course Number: 04010202

Course Description: This course engages students in the study of biology, aligned to the PA STEELS Keystone Biology Standards, through concept development, discussions, modeling, projects, and collaborative lab experiments. Students enrolled in this course are required to take the Biology Keystone Exam at the end of the year.

**The Keystone Biology exam will be given every May. Students enrolled in Biology will take the Keystone exam at that time.

Biology H

- Length/credit: 1 year - 1.0 credit
- Grade: 9
- Prerequisite: It is recommended that students have earned a grade of "A" or "B" on assessments in 8th grade Science.
- Course Number: 04010303

Course Description: This course engages students in the study of biology, aligned to the PA STEELS Keystone Biology Standards, through concept development, discussions, modeling, projects, and collaborative lab experiments. The course is designed to provide the students with opportunities for strategic and extended thinking regarding the major biological principles, concepts, and ideas. Students enrolled in this course are required to take the Biology Keystone Exam at the end of the year.

**The Keystone Biology exam will be given every May. Students enrolled in Biology will take the Keystone exam at that time.

AP Biology

- Length/credit: 1 year - 1.0 credit
- Grade(s): 11, 12
- Prerequisite: Students must have successfully completed Biology Honors and Chemistry Honors. It is recommended that students have earned a grade of "A" or "B" on assessments in these courses.
- Course Number: 04010404

Course Description: The Advanced Placement Biology course is designed to prepare the student for both the AP Biology Examination as well as future courses in the biological sciences at the college level. Students are encouraged to take the AP exam. Over the course of the year, the students are exposed to a wide variety of topics which include, but are not limited to, cell and molecular biology, classical and molecular genetics, evolution, anatomy and physiology, basic aspects of organic and

biochemistry, and ecology. These topics will be studied through lecture, discussion, and laboratory activities, and the analysis of assigned readings. Please be advised that the depth and rate at which material is studied in this course requires the student to be highly motivated and willing to devote additional time out of the classroom in order to prepare for regular assessments such as weekly quizzes and multi- chapter examinations. The assessments are designed to challenge the student to apply his or her knowledge to tasks such as data interpretation and critical analysis.

Human Anatomy and Physiology

- Length/credit: 1 year - 1.0 credit
- Grade(s): 10, 11, 12
- Prerequisite: Students must have successfully completed Biology. It is recommended that students have earned an A or B on assessments in Biology.
- Course Number: 04010802

Course Description: Human Anatomy and Physiology is a full-year course that introduces students to the anatomy, physiology, and related pathologies of the human body. The course begins with an introduction to medical terminology, tissue types, and an overview of the organ systems. We then study the organ systems, learning the structure and function of each, as well as examples of related pathologies for each system. **NOTE: This course contains a strong lab component, which will include dissections of mammalian specimens.** Anatomy and Physiology course is targeted for students with a wide range of interests, abilities, and backgrounds who are interested in learning about the human body either out of curiosity or to pursue certain types of health-related careers.

Human Anatomy and Physiology H

- Length/credit: 1 year - 1.0 credit
- Grade(s): 10, 11, 12
- Prerequisite: Students must have successfully completed Biology. It is recommended that students have earned an “A” or “B” on assessments in Biology Honors or an A on assessments in Biology College Prep. Students must have successfully completed Chemistry or be taking Chemistry concurrently.
- Course Number: 04010803

Honors Human Anatomy and Physiology is a full-year course focused on a detailed study of the anatomy, physiology, and related pathologies of the human body. The course begins with an introduction to medical terminology, tissue types, and an overview of the organ systems. We then study the structure and function of the organ systems in detail, as well as evaluating current research for related pathologies. Students will gain an understanding and appreciation for patient care throughout the course. **NOTE: This course contains a strong lab component, which will include dissections of mammalian specimens.** The Honors level course is aimed at students currently taking Honors or AP sciences and who are interested in an intensive study of the human body, possibly to prepare for a pre-med college program or a career in the health sciences.

Genetics H

- Length/credit: 1 year - 1.0 credit
- Grade(s): 10, 11, 12

- Prerequisite: Students must have successfully completed Biology. Students must have successfully completed Chemistry or be concurrently taking Chemistry.
- Course Number: 04011003

Course Description: This elective course has been designed to provide the student with a more in-depth understanding of how the many classical discoveries of the past have served to define both our present understanding of genetics as well as the direction of future research in this discipline. The topics covered during this year-long course will include, but not be limited to, the molecular attributes of the cell, the classical aspects of inheritance, the Chromosomal Theory of Inheritance, the biochemical attributes of gene expression, the molecular basis of disease, gene therapies, the molecular aspects of bacterial and viral genetics, cloning and genetic engineering, and the theory of evolution. This course is being offered in the large group lecture format (two meetings per cycle) so as to replicate the learning environment being employed at some universities. The material presented in these lectures are reinforced during separate recitation sections (one meeting per cycle). This course also features a laboratory component that allows the students to explore genetics by utilizing some of the same techniques employed in the more classical areas of genetics (e.g. fruit fly crosses, blood group simulations, etc.) as well as those molecular techniques often associated with such fields as the forensic sciences (e.g. gel electrophoresis, DNA extraction, etc.). Computer simulations, lectures, assigned readings from popular texts (e.g., *The Beak of the Finch*), assigned readings from primary sources, and classroom discussions are all employed in order to help reinforce classroom concepts.

Chemistry Courses

Chemistry

- Length/credit: 1 year - 1.0 credit
- Grade(s): 10, 11, 12
- Course Number: 04020202
- Prerequisite: Students must have successfully completed Biology and Integrated Math 1. It is recommended that students have successfully completed or be concurrently taking Integrated Math 2.

Course Description: This course covers the core of topics and activities necessary to give students a solid foundation in understanding chemistry concepts. Topics include measurement, matter and energy, elements, compounds, nomenclature, chemical reactions and their balancing, chemical quantities and their composition, and the composition of the atom. Students regularly engage in investigations that reflect the topic studied.

Chemistry H

- Length/credit: 1 year - 1.0 credit
- Grade(s): 10, 11, 12
- Prerequisite: Students must have successfully completed Biology. It is recommended that students have earned an "A" or "B" on assessments in Biology College Prep or Honors. It is recommended that students have successfully completed or be concurrently taking Integrated

Math 2 Honors.

- Course Number: 04020303

Course Description: This course is designed to engage students with a conceptually challenging presentation of chemistry topics that require a strong understanding of prerequisite math skills. Content is supported with rigorous mathematical applications including unit conversions, solving for unknown variables, graphing data, and identifying mathematical relationships in data. Topics studied include states of matter, atomic structure, periodicity, chemical bonding, kinetics, chemical reactions, nomenclature, acid-base theory, stoichiometry, electrochemistry solutions, thermochemistry, and equilibrium. Each student performs and writes formal reports for laboratory activities each quarter which reflect the topic studied. Student involvement through “hands-on” experiences, teacher demonstrations, and classroom discussion will enable him/her to gain a thorough understanding of the concepts presented.

AP Chemistry

- Length/credit: 1 year - 1.0 credit
- Grade(s): 11, 12
- Prerequisite: Students must have successfully completed Chemistry; Chemistry Honors is recommended. It is recommended that students have earned an “A” or “B” on assessments in Chemistry Honors, or an “A” on assessments in Chemistry College Prep. Students must have successfully completed Integrated Math 3. It is recommended that students have earned an “A” or “B” on assessments in Integrated Math 3.
- Course Number: 04020504

Course Description: The Advanced Placement Chemistry course has been designed to prepare the student for both the AP Chemistry Examination as well as future chemistry courses at the college level. The core of the program covers structures of the atom, periodicity, molecular structure, solution, acid-base, kinetics, equilibrium, solubility, thermodynamics, and redox. The lab stresses both quantitative and qualitative analysis and each student will perform and write formal reports for multiple laboratory activities each quarter.

Organic Chemistry H - Saturdays 8:00 a.m. to 12:00 p.m.

- Length/credit: 1 year - 1.0 credit
- Grade(s): 11, 12
- Prerequisite: Students must have successfully completed Chemistry. It is recommended that students have earned a grade of “A” or “B” on assessments in Chemistry or Chemistry H.
- Course Number: 04020403

Course Description: This is a lab-oriented course with emphasis placed on the role of the organic chemist in society. Technique is stressed in both laboratory situations and practical applications. Students are introduced to the course by performing routine purifications and separations. Later they perform experiments in which they gain experience with sequential synthesis. Students keep a log of their experiments and report their findings to the instructor for evaluation. Note: This course is scheduled on Saturdays from 8:00 a.m. - 12:00 p.m. Students schedule it as an extra course with the approval of the instructor.

Physics Courses

Physics

- Length/credit: 1 year - 1.0 credit
- Grade(s): 10, 11, 12
- Prerequisite: It is recommended that students have successfully completed Integrated Math 2.
- Course Number: 04030202

Course Description: This course is designed to provide students with a broad-based knowledge of physical phenomena with an emphasis on application of principles learned in class through experimentation and real-life scenarios. It is intended mainly for students whose major interests lie in fields other than science or mathematics, but it will give a foundation for those who wish to explore future study in science. This course aligns with Pennsylvania's STEELS standards. Topics studied include most of those in the Physics H course but are presented in a less mathematical manner. Electricity and magnetism are presented only if time permits.

Physics H

- Length/credit: 1 year - 1.0 credit
- Grade(s): 10, 11, 12
- Prerequisite: Students must have successfully completed Integrated Math 2. It is recommended that students have earned a grade of "A" or "B" on assessments in Integrated Math 2.
- Course Number: 04030303

Course Description: This course engages students in the study of physics through concept development, problem solving exercises, computer-based activities, projects, and collaborative lab experiments. It is designed for physics students developing algebraic reasoning, data literacy, and scientific modeling skills. The curriculum balances conceptual understanding with mathematical modeling and aligns with Pennsylvania's STEELS standards. Honors students have higher expectations in the scope of mathematical skills, analytical skills, and pace of learning.

AP Physics 1

- Length/credit: 1 year - 1.0 credit
- Grade(s): 10, 11, 12
- Prerequisite: Students must have successfully completed Chemistry; Honors Chemistry is recommended. It is recommended that students have earned grades of "A" on assessments in Chemistry CP or grades of "A" and "B" on assessments in Chemistry H.
- Course Number: 04030414

Course Description: AP Physics 1 is an algebra-based, introductory college-level physics course in which students explore principles of Newtonian mechanics (including rotational motion); work, energy, and power; mechanical waves and sound; and introductory, simple circuits. The course is based on six Big Ideas, which encompass core scientific principles, theories, and processes that cut across traditional boundaries and provide a broad way of thinking about the physical world. Students establish lines of evidence and use them to develop and refine testable explanations and predictions

of natural phenomena. About twenty-five percent of instructional time will be devoted to hands-on laboratory work with an emphasis on inquiry-based investigations. Investigations require students to ask questions, make observations and predictions, design experiments, analyze data, and construct arguments in a collaborative setting, where they direct and monitor their progress.

AP Physics C: Mechanics

- Length/credit: 1 year - 1.0 credit
- Grade(s): 11, 12
- Prerequisite: Successful completion or co-enrollment in Precalculus H or Calculus is required; AP Calculus is recommended.
- Course Number: 04030504

Course Description: AP Physics Mechanics is a calculus-based course for students who have a high interest in science along with a strong mathematical background. Topics include kinematics, Newton's Laws, momentum, energy, rotational kinematics and dynamics, and simple harmonic motion. Students will be expected to perform experiments and write formal lab reports. These reports are intended to develop the students' written communication skills. This class is designed for students who wish to be prepared for further study of science or science related disciplines. Completion of the course prepares students for the Advanced Placement Physics C – Mechanics Examination.

AP Physics C: Electricity and Magnetism

- Length/credit: 1 year - 1.0 credit
- Grade(s): 12
- Prerequisite: Students must have successfully completed AP Physics C: Mechanics. Students must have successfully completed calculus; AP Calculus is recommended. It is recommended that students have earned grades of "A" or "B" on assessments in AP Physics 1, AP Physics C: Mechanics, and AP Calculus AB or BC.
- Course Number: 04030604

Course Description: AP Physics C: Electricity and Magnetism a calculus-based course designed to provide the students with an understanding of the principles of electricity and magnetism and their interaction. It is generally considered to be a follow-up course to AP Physics Mechanics. Students apply advanced techniques of calculus, including surface integrals and path integrals. Lab activities are also an important part of the course, including the writing of formal lab reports. There are experiments which all students perform, plus there may be independent labs which are individually selected and performed by students. This class is designed for students who wish to be prepared for further study of science or science related disciplines. Completion of the course prepares students for the Advanced Placement Physics C: Electricity and Magnetism examination.

Environmental and Earth/Space Science Courses

Astronomy - Offered 2027-2028

- Length/credit: 1 semester - 0.5 credit

- Grade(s): 11, 12
- Prerequisite: Students must have successfully completed one year of math and two years of science.
- Course Number: 04040102

Course Description: This course explores our understanding of the basic features in the observable universe. Topics include the development of modern astronomy, basic telescope design, the celestial sphere, human spaceflight, the solar system, properties of stars, and galaxy structure. Occasional short projects, sky simulation programs, current events in astronomy, and home-based observations are used throughout the course. When feasible, voluntary evening observations at school are conducted. When available, voluntary evening observations at a local college observatory will be encouraged.

Astronomy H - Offered 2027-2028

- Length/credit: 1 semester - 0.5 credit
- Grade(s): 11, 12
- Prerequisite: Students must have successfully completed two years of math and two years of science.
- Course Number: 04040203

Course Description: This course explores our understanding of the features in the observable universe. Topics include historical astronomers and the development of modern astronomical thought, modern telescopes design and operation, celestial coordinates, human spaceflight and technology, the solar system, electromagnetic radiation, star evolution, galaxy evolution, and cosmology. Several short projects, sky simulation programs, real-time data, current events in astronomy, and home-based observations are used throughout the course. When feasible, voluntary evening observations at school are conducted. Calculations in navigation, sky angles, planet motion, and star distances are used in various parts of the course.

Environmental Science

- Length/credit: 1 year - 1.0 credit
- Grade(s): 9, 10, 11, 12
- Course Number: 04040912

Course Description: Environmental science is the study of the natural sciences in an interdisciplinary context that always includes consideration of humans and how they influenced the various systems around us. This year-long introductory course is for students who wish to study topics relating to the environment, its resources, and quality and ethical issues. This course is further designed to provide a deeper and more focused exploration of ecological topics that were initially investigated in Biology and/or Life Science. Specific emphasis is placed on the impact of humankind on the environment and ecosystems of the world.

Geology - Offered 2027-2028

- Length/credit: 1 semester - 0.5 credit

- Grade(s): 11, 12
- Prerequisite: Students must have successfully completed one year of math and two years of science.
- Course Number: 04040302

Course Description: This course studies the earth as a dynamic system in which numerous forces are at work both internally and on the surface of the planet. Topics include the basic composition and structure of the earth, geologic history, reading topographic maps, rock and mineral identification, destructive/constructive processes, and plate tectonics. Projects and presentations are used in parts of the course. Opportunities to pursue topics of individual interest are available. When possible, an all day field trip allows students to directly study the geology of our region. Basic knowledge of solid geometry is needed for parts of this course.

Geology H - Offered 2027-2028

- Length/credit: 1 semester - 0.5 credit
- Grade(s): 11, 12
- Prerequisite: Students must have successfully completed two years of math and two years of science.
- Course Number: 04040403

Course Description: This course studies the earth as a dynamic system in which numerous forces are at work both internally and on the surface of the planet. Topics include the composition and structure of the earth, geologic history, paleontology, topographic map interpretation and design, geologic map interpretation, rock and mineral identification, destructive/constructive processes, and plate tectonics. When possible, an all-day field trip allows students to directly study the geology of our region. Knowledge of solid geometry, angular measurement, and unit conversion are needed for parts of the course.

Meteorology

- Length/credit: 1 semester - 0.5 credit
- Grade(s): 11, 12
- Prerequisite: Students must have successfully completed one year of math and two years of science.
- Course Number: 04040702

Course Description: Topics studied include basic weather map analysis, atmospheric structure, heat transfer, the water cycle, cloud identification, severe weather, and global warming. Daily weather summaries or presentations, readings, working with basic online data, short projects, and various experiments are all part of the course. Working with numbers, interpreting graphs and maps, and basic arithmetic are necessary components of this course.

Meteorology H

- Length/credit: 1 semester - 0.5 credit
- Grade(s): 11, 12
- Prerequisite: Students must have successfully completed two years of math and two years of

science.

- Course Number: 04040803

Course Description: This course is designed for those interested in gaining in-depth knowledge about the atmosphere in which we live. Topics studied include detailed weather map analysis, atmospheric structure, heat transfer and applied calculations, moisture measurements and calculations, cloud dynamics, jet-stream analysis, basic forecasting models, severe weather, and global warming. Daily weather summaries or presentations, readings, online data collection and analysis, short projects, and various experiments are all part of this course. Interpretation of data tables, charts, graphs, maps, and various applied calculations are necessary components of this course.

Oceanography

- Length/credit: 1 semester - 0.5 credit
- Grade(s): 11, 12
- Prerequisite: Students must have successfully completed one year of math and two years of science.
- Course Number: 04040502

Course Description: This course is designed for those interested in learning more about the physical, chemical, and biological components of the world's oceans. Topics studied include the history of ocean exploration and deep-diving technology, basic nautical chart interpretation, barrier island ecology, beach sand composition, basic water temperature patterns, large-scale water motion, ocean pollution, and marine life in various life zones. Online data sources, nautical charts, readings, and short projects are included in this course. Basic map and graph interpretation, basic knowledge of biology and chemistry, and working with numbers are necessary for parts of this course.

Oceanography H

- Length/credit: 1 semester - 0.5 credit
- Grade(s): 11, 12
- Prerequisite: Students must have successfully completed two years of math and two years of science.
- Course Number: 04040603

Course Description: This course is designed for those interested in a more detailed understanding about the physical, chemical, and biological components of the world's oceans. Topics studied include the history of ocean exploration and deep-diving technology, nautical chart interpretation, barrier island ecology, beach sand analysis and composition, temperature and salinity patterns, remote sensing technology, large-scale water motion analysis, ocean pollution, and marine life in various life zones. Online data sources, nautical charts, online maps, readings, and short projects are included in this course. Map and graph interpretation, knowledge of biology and chemistry, and working with numbers are necessary for parts of this course.

AP Environmental Science

- Length/credit: 1 year - 1.0 credit
- Grade(s): 11, 12

- Prerequisite: Students must have successfully completed Biology, Chemistry, and Integrated Math 3. It is recommended that students have earned grades of “A” or “B” on assessments in these courses.
- Course Number: 04040904

Course Description: The goal of the Advanced Placement Program is to prepare students to successfully complete an AP exam. This course is designed to be the equivalent of a one-semester introductory college-level course in environmental science. It utilizes an interdisciplinary approach, combining elements of earth sciences, biology, and chemistry, to understand the interrelationships within the natural world. Students use scientific and quantitative methodologies to analyze and identify naturally occurring and man-made environmental problems, evaluate environmental and health risks, and explore solutions to minimize or prevent such risks. This rigorous course includes assigned readings, classroom lectures and discussions, a laboratory and field component, and outside research.

Technology and Engineering Courses

Foundations of Engineering & Design

- Length/credit: 1 semester - 0.5 credit
- Grade(s): 9, 10, 11, 12
- Course Number: 10010110

Course Description: Foundations of Engineering & Design involves the application of knowledge, resources, materials, tools, and information in designing, producing, and using products, structures, and systems. It incorporates students’ skills in Science, Technology, Engineering, and Mathematics. Students are given the opportunity to design, build, and evaluate a variety of projects such as mechanical powered vehicles, robotic systems, and a Rube Goldberg device. They are also given the opportunity to explore and use electronics, pneumatics, computer numeric control, computer aided drafting, and rapid prototyping. This course is highly encouraged for those students who enjoy hands-on problem solving and/or considering a degree in engineering, design, or related fields.

Foundations of Engineering & Design H

- Length/credit: 1 semester - 0.5 credit
- Grade(s): 9, 10, 11, 12
- Course Number: 10010113

Course Description: Foundations of Engineering & Design involves the application of knowledge, resources, materials, tools, and information in designing, producing, and using products, structures, and systems. It incorporates students’ skills in Science, Technology, Engineering, and Mathematics. Students are given the opportunity to design, build, and evaluate a variety of projects such as mechanical powered vehicles, robotic systems, computer aided drafting, and rapid prototyping. This course is highly encouraged for those students who enjoy hands-on problem solving and/or considering a degree in engineering, design, or related field. Students research, design and construct a solution to an open-ended engineering problem and prepare design challenge proposals under the

consultation of the instructor. Options include but are not limited to the TSA (Technology Student Association) competitive events guide, state, national, university sponsored STEM challenges, and commercially available kits. Engineering solutions are presented in the form of a digital portfolio along with an artifact. Research, development, and STEM analysis must be evident in the digital portfolio presentation, which will take place at the end of the semester. In addition, students are given the opportunity to investigate university engineering programs as well as engineering disciplines and functions.

Advanced Engineering & Design 1 H

- Length/credit: 1 semester - 0.5 credit
- Grade(s): 9, 10, 11, 12
- Prerequisite: Successful completion of Foundations of Engineering & Design or Foundations of Engineering & Design H
- Course Number: 10020123

Course Description: This course is a continuation of Foundations of Engineering & Design. In this course, students advance their understanding and application of the Technological Design and Problem-Solving Process. Students will be given the opportunity to design, build, and evaluate an independent project with a focus on research and development.

Computer Aided Drafting & Design (CADD)

- Length/credit: 1 semester - 0.5 credit
- Grade(s): 9, 10, 11, 12
- Course Number: 10040100

Course Description: CADD is an introductory course in the application of technical communications, drawing, and computer aided design as part of the design and problem-solving process. Students apply Science, Technology, Engineering, and Mathematics skills, to a variety of projects covering fields of study such as Architecture, Product Design, Computer Modeling and Prototyping. Created to give students a hands-on introductory experience in design, CADD allows students to use a variety of tools and processes to study how their products work under real-world conditions. This course is highly encouraged for those students who enjoy hands-on problem solving and/or considering a degree in engineering, design, or related fields.

Computer Aided Drafting & Design (CADD) H

- Length/credit: 1 semester - 0.5 credit
- Grade(s): 9, 10, 11, 12
- Course Number: 10040233

Course Description: Students design and construct a solution to an open-ended engineering problem through the use of state- of-the-art three-dimensional drafting software and rapid prototyping technology and prepare design challenge proposals under the consultation of the instructor. Options include but are not limited to the TSA (Technology Student Association) competitive events guide, state, national, and industry sponsored design challenges. Engineering solutions are presented in the

form of a digital portfolio along with a rapid prototyped artifact. Research, development, and STEM analysis must be evident in the digital portfolio presentation, which takes place at the end of the semester. In addition, students are given the opportunity to investigate university design and engineering programs as well as design and engineering disciplines and functions.

Architectural Design

- Length/credit: 1 semester - 0.5 credit
- Grade(s): 9, 10, 11, 12
- Course Number: 10040210

Course Description: The Architectural Design class is an introductory study of the theory, history, principles, and practice of architecture. It includes the roles and responsibilities of design professions, architects, and engineers. Major topics include interior design, frame construction, vocabulary, landscape architecture, green construction and how they relate to each other. This course also introduces students to 2-D and 3-D communication and presentation techniques as used in architecture and covers basic model building and the use of drawing as a problem abstraction and diagramming technique. Students learn to interpret construction drawings for residential, commercial, and industrial structures. Major projects include 3-D drawings and scale models of a residential structure.

Architectural Design H

- Length/credit: 1 semester - 0.5 credit
- Grade(s): 9, 10, 11, 12
- Course Number: 10040223

Course Description: Architectural Design is an introductory study of the theory, history, principles, and practice of architecture. It includes exploration of the roles and responsibilities of design professions, architects, and engineers. Major topics are interior design, frame construction, landscape architecture, green construction and how they relate to each other. Students are introduced to 2-D and 3-D communication and presentation techniques that are widely used in architecture. Application of basic model building and the use of drawing as a problem abstraction and diagramming technique are also included in instruction. Additionally, students learn to interpret construction drawings for residential, commercial, and industrial structures. Major hands-on projects include the rendering of 3-D drawings and the construction of a scale-model residential structure. In addition to the standard instruction and assignments, students electing the Honors level option of Architectural Design are also expected to learn and apply the use of advanced software techniques and model creation; as well as complete an architecture research project or job-shadowing experience.

Innovation & Invention - Robotics

- Length/credit: 1 semester - 0.5 credit
- Grade(s): 9, 10, 11, 12
- Prerequisite: Completed Technology Engineering Course or Instructor approval.
- Course Number: 10030110

Course Description: Innovation & Invention is a capstone course that utilizes the VEX Robotics Design System at its core. Students build, design, compete, and cooperate with robots to solve societal problems while learning and applying engineering and physics concepts, formulas, and practices. The course offers many of the exact same kinds of experiences to students that are offered in the highly publicized 2.007 Engineering course at MIT. Two major design challenges invite students to apply knowledge of speed, power, torque, DC motors, gear ratio and reduction, friction, traction, and drive train/manipulator design. This course is highly encouraged for those students who enjoy hands-on design challenges and problem solving and/or considering a degree in engineering, design, robotics, or a related dynamic field of study.

Innovation & Invention – Robotics H

- Length/credit: 1 semester - 0.5 credit
- Grade(s): 9, 10, 11, 12
- Prerequisite: Completed Technology Engineering Course or Instructor approval.
- Course Number: 10030123

Course Description: Invention & Innovation – Robotics is a capstone course that utilizes the VEX Robotics Design System at its primary instructional resource. Students design, build, compete, and cooperate with robots to solve societal problems while learning and applying engineering and physics concepts, formulas, and practices. Two major design challenges invite students to apply knowledge of speed, power, torque, DC motors, gear ratio and reduction, friction, traction, and drive train/manipulator design. This course is highly encouraged for those students who enjoy hands-on design challenges and problem solving and/or considering a degree in engineering, design, robotics, or a related STEM field of study. In addition to the standard instruction and assignments, students electing the Honors level option of Innovation & Invention-Robotics learn and apply the use of sensor technology in design challenges and complete a robotics research project or advanced robotics applications challenge.

Social Studies

The Social Studies Curriculum is designed to prepare students for the career, academic and citizenship demands of the 21st century. To this end, all social studies courses invite students to investigate historical questions by employing discipline-specific reading strategies such as sourcing, contextualizing, corroborating, and close reading. All LMSD Social Studies courses require students to read and analyze complex primary and secondary source materials, acquire increasingly sophisticated vocabulary, research purposefully from a variety of sources, write expository essays that successfully inform, analyze, explain, and argue, make cogent, insightful presentations, and listen purposefully.

Graduation requirements include four credits in Social Studies. To meet these requirements students typically take the following courses in sequence:

- 9th grade - Global Studies 1
- 10th grade - Global Studies 2
- 11th grade - United States History

12th grade - United States Government

The completion of a research paper is a requirement of each of these year-long courses. The Lower Merion School District requires all students to take a full-year U. S. Government course. Students enrolled in Honors and College Preparatory courses typically take U. S. Government as a 12th grade course. Students in the International Baccalaureate (IB) Program at Harriton often take U.S. Government in Summer School (if offered), concurrent with 11th and 12th grade IB Social Studies courses, or in 10th grade. If IB Students take U. S. Government in their sophomore year, they are strongly encouraged to request Global Studies 2 in 10th, 11th, or 12th grade as an additional course, subject to availability.

Global Studies 1 or

Global Studies 1 H

- Length/credit: 1 year - 1.0 credit
- Grade: 9
- Prerequisite: It is recommended that students who opt for the Honors level have earned a grade of “A” or “B” in 8th grade Social Studies.
- Course Number: 02010402
- Course Number H: 02010413

Course Description: The goal of the two-year Global Studies Program is to understand the complexities of our 21st century world through multiple lenses. In Global Studies 1, students delve into the world’s history, cultures, human and physical geography, economic, and political structures from 1450-1850 through an inquiry process of learning. Honors level students have increased rigor in their study and application of learning.

Global Studies 2 or

Global Studies 2 H

- Length/credit: 1 year - 1.0 credit
- Grade: 10
- Prerequisite: It is recommended that students who opt for the Honors level have grades of “A” or “B” in the previous year’s Honors Global Studies I course or an “A” in the previous year's College Preparatory Global Studies I course.
- Course Number: 02020422
- Course Number H: 02020423

Global Studies 2 is the second half of a two-year study begun in 9th grade. For 10th grade, Global Studies 2 continues an investigation into the complexities of our 21st century world through multiple lenses such as examining the world’s history, cultures, human and physical geography, and economic and political structures. With an opening unit that recalls lessons from the 17th and early 18th century to help students recognize this continuity, Global Studies 2 concentrates on the past 300 years, from 1750 to the modern era. Like Global 1, this course uses an inquiry-based framework. Honors level students have increased rigor in their study and application of learning.

United States History or United States History H

- Length/credit: 1 year - 1.0 credit
- Grade: 11
- Prerequisite: It is recommended that students who opt for the Honors level obtain the grade of “A” or “B” in previous year’s Honors Global Studies 2 course or an “A” in the previous year’s College Preparatory Global Studies 2 course.
- Course Number: 02030202
- Course Number H: 02030303

Course Description: This course surveys the historical growth of the United States socially, economically, and politically from 1920s to modern day. Through an interdisciplinary approach, the course traces movements and events that led to progressive reform, social and political conflict, cultural trends, the emergence of the United States as a world power, and the resulting issues thereby created. Honors level students have increased rigor in their study and application of learning.

AP United States History

- Length/credit: 1 year - 1.0 credit
- Grade: 11
- Prerequisite: It is recommended that interested students have grades of “A” or “B” in the previous year’s Honors Global Studies 2 course or an “A” in the previous year’s College Preparatory Global Studies 2 course.
- Course Number: 02030404

Course Description: This course is taught at the college level and is designed to give students the opportunity to explore the scope of American history through the analysis of primary documents and the critical evaluation of various forms of historical evidence. The curriculum is prescribed by the College Board and covers the American experience from colonial times through the twentieth century. Social, political, and economic trends as well as major movements, conflicts, and events require considerable reading before and during the course and refined skills in research and writing are expected and practiced. One of the goals of this course is to prepare students to successfully complete the AP examination in United States History.

United States Government or United States Government H

- Length/credit: 1 year - 1.0 credit
- Grade: 12 and pre-IB students in grades 10
- Prerequisite: It is recommended that students who opt for the Honors level have grades of “A” or “B” in the previous year’s Honors Social Studies course or an “A” in the previous year’s College Preparatory Social Studies course.
- Course Number: 02040222
- Course Number H: 02040323

Course Description: Students acquire an understanding of the institutions and processes of the three branches of government in the American political system including the Presidency, the Congress, the Judicial System, Interest Groups, and Lobbying and Political Parties. This course also places an emphasis on Civics with an experiential civics' component focusing on local, regional, or state governmental issues. Politics and policy are examined from a historical perspective, and students apply this knowledge to current issues to develop in-depth understandings of the forces at work in our democracy. Students are expected to deepen reading and writing skills. Honors level students have increased rigor in their study and application of learning. Students taking this course complete a District-created Act 35 Assessment of Civics Knowledge.

AP United States Government & Politics

- Length/credit: 1 year - 1.0 credit
- Grade: 12 and pre-IB students in grade 10
- Prerequisite: It is recommended that interested students have grades of "A" or "B" in the current honors or AP level Social Studies core course and recommendation from a member of the Social Studies Department.
- Course Number: 02040424

Course Description: This course is taught at the college level and is designed to give students a critical perspective on government and politics in the United States. This course involves both the study of the Constitutional underpinnings of the American system and the processes within our democracy including political parties, interest groups, voter participation and behavior, and civil liberties and civil rights. The student undertakes considerable reading at an advanced level. One of the goals of this course is to prepare students to successfully complete an AP examination in United States Government and Politics. This course satisfies the United States Government graduation requirement. Students taking this course complete a District-created Act 35 Assessment of Civics Knowledge.

Social Studies Electives

Students may select from the following Social Studies electives in addition to the core Social Studies courses.

Black Excellence: The Politics, Economics, and Culture of an American People or Black Excellence: The Politics, Economics, and Culture of an American People H

- Length/credit: 1 semester - 0.5 credit
- Grade(s): 10, 11, 12
- Course Number: 02130102
- Course Number H: 02130203

Course Description: This course studies the Black experience in America, both the effect of society on Black Americans as well as Black Americans' influence on society. It examines the history, culture, and politics of Black people within America and centers the experiences, voices, and accomplishments of Black Americans as a challenge to traditional narratives. Through the lens of Black Excellence, this

course examines Politics, Business, Education, Culture, and Legacies. It embeds a discussion of culture throughout and includes a culminating project where students focus on legacies of excellence in the past, in the future, and in their own lives. Honors level students have increased rigor in their study and application of learning.

Economics or Economics H

- Length/credit: 1 semester - 0.5 credit
- Grade(s): 10, 11, 12
- Course Number: 02070102
- Course Number H: 02070203

Course Description: This one-semester course is an introduction to fundamental micro and macroeconomic concepts. Major topics include supply and demand, prices, market structures, financial markets, money, and banking, monetary and fiscal policy, government regulations, and comparative economic systems. There is an emphasis on economic literacy, and a major goal is to develop an understanding of the vocabulary and analytical techniques used by economists. Honors level students have increased rigor in their study and application of learning as well as undertake considerable reading at an advanced level.

AP Economics

- Length/credit: 1 year - 1.0 credit
- Grade (s): 11, 12
- Prerequisite: It is recommended that interested students have grades of “A” or “B” in the current honors or AP level Social Studies core course and recommendation from a member of the Social Studies Department.
- Course Number: 02070604

Course Description: AP Economics covers introductions to both microeconomics and macroeconomics. Microeconomics is focused on helping students develop a thorough understanding of principles of economics that apply to the functions of both consumers and producers within the economic system. It places primary emphasis on the nature and functions of product markets and includes the study of factor markets and the role of government in promoting greater efficiency and equity in the economy. Macroeconomics gives students a thorough understanding of principles of economics that apply to economic systems as a whole. The course places particular emphasis on the study of national income and price-level determination and develops students’ familiarity with economic performance measures, the financial sector, stabilization policies, economic growth, and international economics. This course prepares students to take both the AP Microeconomics and AP Macroeconomics exams.

IB Economics-SL - offered at Harriton High School only

- Length/credit: 1 year - 1.0 credit

- Grade (s): 11, 12
- Course Number: 02070305

Course Description: The Standard Level IB Economics class provides students a solid foundation in microeconomics and macroeconomics. Basic economic terminology is emphasized, and students become familiar with analyzing economic models, graphs, and data. While the course focuses on the central economic questions of “What?”, “How?”, and “For whom?” students apply economic theory to the real-world issues of economic development, market structures, the environment, and the impact of technology. Students are required to prepare commentaries linking the material in the classroom to contemporary situations described in published news media. This course is offered depending on enrollment and may be taken by non-IB students. All students enrolled in this class are required to complete all International Baccalaureate assessments.

IB Economics-HL (Part 1) - offered at Harriton High School only

- Length/credit: 1 year - 1.0 credit
- Grade (s): 11, 12
- Course Number: 02070405

Course Description: This course is the first year of the two-year Higher Level IB Economics class and provides students with an in- depth study of microeconomics and macroeconomics. Basic economic terminology is emphasized, and students become familiar with analyzing economic models, graphs, and data. While the course focuses on the central economic questions of “What?”, “How?”, and “For whom?” students apply economic theory to the real-world issues of economic development, market structures, the environment, and the impact of technology. Students are required to prepare commentaries linking the material in the classroom to contemporary situations described in published news media. This course is offered depending on enrollment and may be taken by non-IB students as well. Please note that taking Part 1 of this course does not guarantee that Part 2 will fit into your schedule the following year. All students enrolled in this class are required to complete all International Baccalaureate assessments.

IB Economics-HL (Part 2) - offered at Harriton High School only

- Length/credit: 1 year - 1.0 credit
- Grade (s): 12
- Prerequisite: IB Economics-HL (Part 2) HL.
- Course Number: 02070505

Course Description: This course is the second year of the two-year Higher Level Economics class and will expand on the economic foundations covered in Part 1. There is a further analysis of such topics as cost theory, market structures, Veblen and Giffin goods, multipliers, and accelerators, inflation measures, Philips curves, Laffer curves, Lorenz curves, comparative advantage, Marshall-Lerner conditions, and trade issues. This course is offered depending on enrollment and may be taken by non- IB students as well. All students enrolled in this class are required to complete all International Baccalaureate assessments.

Global Citizenship or

Global Citizenship H

- Length/credit: 1 semester – 0.5 credit
- Grade (s): 9, 10, 11, 12
- Course Number: 02020512
- Course Number H: 02020503

Course Description: This course invites learners to become positive forces as global citizens. This curriculum’s student-centered approach combines academic learning with experiential service experiences. Students study poverty, gender equity, income inequality, human and civil rights, environmental sustainability, globalization, and interdependence, as well as cultural diversity. This course requires 30-40 hours of community service per semester. Because these service opportunities are informed by academic study, they increase intercultural competence and global awareness in both practical and scholarly ways. Honors level students have increased rigor in their study and application of learning.

AP Human Geography

- Length/credit: 1 year - 1.0 credit
- Grade (s): 11, 12
- Prerequisite: It is recommended that interested students have grades of “A” or “B” in the current honors or AP level Social Studies core course and recommendation from a member of the Social Studies Department.
- Course Number: 02120104

Course Description: This course enhances understanding of how humans interact with the world around them. The course focuses on the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth’s surface and the tools geographers use to study how humans interact with the earth and the consequences of those actions. During the course, students interpret maps and analyze geospatial data, understand, and explain the implications of associations and networks among phenomena in places, recognize and interpret the relationships among patterns and processes at different scales of analysis, define regions and evaluate the regionalization process, and characterize and analyze changing interconnections among places. Essentially, students’ study “where stuff is and why it’s there.” This college-level course includes class discussions, geography activities, practice exams, essay exams, and geographic fieldwork. The course prepares students to take the AP Human Geography exam.

Philosophy and Modern Culture or

Philosophy and Modern Culture H

- Length/credit: 1 semester - 0.5 credit
- Grade(s): 11, 12
- Course Number: 02080102
- Course Number H: 02080103

Course Description: This course is a study of philosophical questions and their application to modern

life. Students study great thinkers and the ways in which their viewpoints are relevant to the modern world. Issues such as the role of science and technology, theories of knowledge, and moral philosophy are discussed. Contemporary readings and films are used for illustration. The honors course involves significantly more reading, writing, and research than the college preparatory level.

Psychology or

Psychology H

- Length/credit: 1 semester - 0.5 credit
- Grade(s): 11, 12
- Course Number: 02060102
- Course Number H: 02060203

This course is an introduction to the field of psychology with special emphasis on applying course content to students' life experiences. The content spans a wide range of topics such as learning, development, the brain, personality, the senses, psychological testing, and psychiatry. The course seeks to help students develop healthy and realistic personal attitudes as they approach adulthood. Included in the course is a moderate amount of reading, writing, experimental projects, and class discussions. Honors level students have increased rigor in their study and application of learning.

AP Psychology

- Length/credit: 1 year - 1.0 credit
- Grade(s): 11, 12
- Prerequisite: It is recommended that interested students have grades of "A" or "B" in the current honors or AP level Social Studies core course and recommendation from a member of the Social Studies Department.
- Course Number: 02060304

Course Description: This course is the secondary school equivalent to an introductory college-level course in psychology. The course is designed to introduce students to the scientific study of behavior and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. They also learn about the ethics and methods psychologists use in their science and practice. This course prepares students to take the AP Psychology exam.

IB Psychology SL - offered at Harriton High School only

- Length/credit: 1 year - 1.0 credit
- Grade(s): 11, 12
- Course Number: 02060305

Course Description: The IB Psychology-SL class provides students with a solid foundation in the historical background of psychology as a social science. Students are exposed to the study of the behavior of organisms, both animal and human. They study various methodologies and philosophical positions as they have developed in modern psychology. Students are exposed to the utilization of the scientific method in the social sciences and its importance in the growth of the psychological sciences. This course may be taken by non-IB students as well. All students enrolled in this class are

required to complete all International Baccalaureate assessments.

IB Psychology HL (Part 1) - offered at Harriton High School only

- Length/credit: 1 year - 1.0 credit
- Grade(s): 11
- Course Number: 02060405

Course Description: The IB Psychology-HL (Part 1) class is the first year of the Higher Level Psychology class. The HL course expands on the foundational information covered in the SL course. In addition to the historical and theoretical background information, HL students produce an original research project following IB guidelines. This course is offered depending on enrollment and may be taken by non-IB students as well. All students enrolled in this class are required to complete all International Baccalaureate assessments.

IB Psychology HL (Part 2) - offered at Harriton High School only

- Length/credit: 1 year - 1.0 credit
- Grade(s): 12
- Course Number: 02060505

Course Description: The IB Psychology HL (Part 2) class is the second year of the Higher Level IB Psychology class. This class continues to expand on foundational information begun in the first year of the class. In addition, students study an assigned area in depth. This is the year in which their experimental study is completed, requiring 25 hours, 1500- 2000 words, and includes the use of inferential statistics as part of the analysis of data. All students enrolled in this class are required to complete all International Baccalaureate assessments.

World Languages

World language is an essential component of the student experience in Lower Merion. The study of languages and cultures provides important preparation for living, leading, and achieving in a global community. The LMSD World Language program seeks to help students:

- Build proficiency in the target language in order to communicate.
- Gain knowledge and understanding of other cultures
- Connect with other disciplines to acquire a deeper insight into one's own language and culture
- Participate in multilingual communities and global societies
- Students in Lower Merion School District have the opportunity to begin the daily study of a new language in 5th grade and continue through high school graduation.

French Courses

French 1

French 1H

- Length/credit: 1 year - 1.0 credit

- Grade(s): 9, 10, 11, 12
- Prerequisite: No experience or Middle School recommendation
- French experience.
- Course Number: 05010302
- Course Number H: 05010403

Course Description: This course introduces students to the French language and is intended for students who have never studied French or have had no more than one year of Middle School French study. In French 1, students begin to read, write, and develop a familiarity with the French phonetic and spelling system. Students begin to learn about the culture of French speaking countries and to draw comparisons to their own culture. Students in French 1 engage in spontaneous dialogues, projects, games, and paired, group and whole class activities. They practice reading, writing, listening and speaking within a cultural context. By the end of the course, students are able to express themselves orally and in writing in familiar situations. Students will complete the same tasks and assessments and French 1 students will be provided the necessary scaffolding and supports. This course is designed to prepare students for French 2/2H.

French 2

French 2 H

- Length/credit: 1 year - 1.0 credit
- Grade(s): 9, 10, 11, 12
- Prerequisite: Successful completion of French 1/1H or Middle School French and teacher recommendation
- Course Number: 05010802
- Course Number H: 05010903

Course Description: This course is a continuation of French 1/1H or Middle School French designed for students interested in further developing proficiency in the French language. Students build reading, writing, listening, and speaking skills through a wide range of activities and with varied resources that include video, music, technology and reading. Students learn to express themselves in French with greater confidence and clarity as they expand their vocabulary and gain experience with more complex grammatical and linguistic structures. Various forms of exposure to new topics keep the students learning at a comfortable pace. Students continue to learn about the culture of French speaking countries and to draw comparisons to their own culture. Students in French 2/2H engage in conversation, projects, games, and paired, group and whole class activities. They are exposed to various text types as they practice reading, writing, listening, and speaking within a cultural context. Students will complete the same tasks and assessments and French 2 students will be provided the necessary scaffolding and supports. This course is designed to prepare students for French 3/3H.

French 3

French 3H

- Length/credit: 1 year - 1.0 credit
- Grade(s): 9, 10, 11, 12

- Prerequisite: Successful completion of French 2/2H and teacher recommendation
- Course Number: 05011102
- Course Number H: 05011203

Course Description: This course is a continuation of French 2/2H for students working toward an intermediate level of proficiency. Students learn to express themselves in French with greater confidence and clarity as they expand their vocabulary and gain experience using more complex grammatical and linguistic structures. At this level, students are increasingly expected to interact with one another in French to simulate a wide range of everyday encounters with their peers in the target language. Students continue to learn about the culture of Francophone countries and to draw comparisons to their own culture. Students enhance reading, writing, listening, and speaking skills through a wide range of activities and with the aid of multiple resources including video, music, audio recordings and multiple text types. Students will complete the same tasks and assessments and French 3 students will be provided the necessary scaffolding and supports. This course is designed to prepare students for French 4/4H.

French 4

- Length/credit: 1 year - 1.0 credit
- Grade(s): 10, 11, 12
- Prerequisite: Successful completion of French 3 and teacher recommendation.
- Course Number: 05011302

Course Description: This intermediate level course is a continuation of French 3. Students learn to express themselves in French with greater confidence and clarity as they expand their vocabulary and gain experience with more complex grammatical and linguistic structures. At this level, students are expected to interact with one another in French to simulate a wide range of encounters in the target language, for example during class discussions and debates. Students continue to learn about the culture of Francophone countries and to draw comparisons to their own culture and express their point of view. Students enhance reading, writing, listening, and speaking skills through a wide range of activities and with the aid of multiple resources including video, music, audio recordings and multiple text types. This course is designed to prepare students for Advanced French Conversation and Culture H.

French 4H

- Length/credit: 1 year - 1.0 credit
- Grade(s): 10, 11, 12
- Prerequisite: Successful completion of French 3H and teacher recommendation.
- Course Number: 05011403

Course Description: French 4 H is an accelerated continuation of French 3H that continues to prepare students for Advanced Placement French study. Class is conducted in French and students converse with each other and with the teacher in French. Grammar and vocabulary from the previous year are reviewed as students incorporate more advanced grammatical structures and

vocabulary. Students in French 4H engage in research, literary analysis, debates, projects, and paired, group and whole class activities. They are exposed to various text types as they practice reading, writing, listening, and speaking within a cultural context. Authentic materials and readings are utilized in French 4H. This course is designed to prepare students for AP French Language, Advanced Global Competence in French or Advanced French Literature and the Arts.

Advanced French Conversation and Culture H

- Length/credit: 1 year - 1.0 credit
- Grade: 12
- Prerequisite: Successful completion of French 4 or French 4H and teacher recommendation.
- Course Number: 05011913

Course Description: This is an engaging, high-level course for students who have completed Level 4 or 4H and are interested in continuing their language studies. The purpose of this course is to use the target language to explore current and historical topics of interest through local, national, and global lenses. Through these topics, students will improve speaking, listening, reading and writing skills in the target language. Students learn to express themselves in French with greater confidence and clarity as they expand their vocabulary and gain experience with more complex grammatical and linguistic structures. Students will explore film, fictional and nonfictional text, current events, and music in French.

Advanced French Literature and the Arts H

- Length/credit: 1 year - 1.0 credit
- Grade: 9, 10, 11, 12
- Prerequisite: Successful completion of French 4H and teacher recommendation.
- Course Number: 05011603

Course Description: This is a rigorous course for students who have completed Level 4H, Advanced French Conversation and Culture H, or AP French Language. The purpose of this course is to use the French language and prominent works of art and literature as vehicles to bring students closer to the cultures of the French speaking world. Students continue to greatly expand and refine their speaking, listening, reading and writing skills in French. Students read fiction, non-fiction, short stories, plays and articles and have an opportunity to learn more about the arts in Francophone countries and the history, culture, and social contexts in which the work was created. Students will view films that depict and interpret the lives and times of the artists or that connect to the literature being studied. This course includes an exploration of complex grammar and is conducted entirely in the target language.

AP French Language

- Length/credit: 1 year - 1.0 credit
- Grade: 10, 11, 12
- Prerequisite: Successful completion of French 4H and teacher recommendation.
- Course Number: 05011704

Course Description: This course is offered in an immersion environment. The course is the equivalent of a university-level course and therefore places rigorous demands on students and proceeds at an accelerated pace. One of the goals of the Advanced Placement Program is to prepare students to successfully complete the AP exam. Advanced grammar is reviewed, as necessary. Students further develop conversational skills and aural comprehension in French through discussions, debates, analysis of reading materials and oral presentations of original materials. Students listen to authentic French news sources and react to authentic French audio and visual materials. At the conclusion of the course, students are able to continue their language studies at the college level. Students are encouraged to take the AP exam offered by the College Board's Advanced Placement Program.

Advanced Global Competence in French H

- Length/credit: 1 year - 1.0 credit
- Grade: 9, 10, 11, 12
- Prerequisite: Successful completion of French 4H and teacher recommendation.
- Course Number: 05011903

Course Description: This is a rigorous course for students who have completed Level 4H, Advanced French Conversation and Culture H, Advanced French Literature and the Arts, or AP French or students who have attained a similar teacher-approved level of proficiency in the language. The purpose of this course is to examine the majority and minority voices in literature, film, art, and music in the French language. Through teacher-guided and independent readings and films, students explore issues of social justice, consider the needs of communities, and view issues through a historic and future-oriented lens. The course emphasizes strategic use of language in regard to audience, purpose, and command of language and will be conducted exclusively in the target language.

Latin Courses

Latin 1

Latin 1 H

- Length/credit: 1 year - 1.0 credit
- Grade(s): 9, 10, 11, 12
- Prerequisite: No experience in Latin or Middle School recommendation
- Course Number: 05030302
- Course Number H: 05030403

Course Description: This course introduces students to Latin and is intended for students who have never studied Latin or had no more than one year of middle school Latin study. Students learn about Roman life, Roman history, and Roman mythology. By learning Latin, students improve their English vocabulary, as Latin is the root of much of the English language. The primary goal of this course is to read and understand elementary Latin. Students learn through pronunciation and grammar drills, syntax exercises, pair or small group work, utilization of various technologies, projects, and games. This course prepares students to enter Latin 2/2H.

Latin 2

- Length/credit: 1 year - 1.0 credit
- Grade(s): 9, 10, 11, 12
- Prerequisite: 2 years of Middle School Latin or Latin 1/1H.
- Course Number: 05030802

Course Description: This course is a continuation of Middle School Latin or Latin 1/1H. Students continue to expand their Latin vocabulary and, through the study of derivatives, expand their English vocabulary as well. Students learn increasingly sophisticated grammar. Cultural studies include mythology, daily life, Roman history, and other topics. The course also includes a cultural component. Students learn through pronunciation and grammar drills, syntax exercises, pair or small group work, utilization of various technologies, projects, and games. This course prepares students to enter Latin 3.

Latin 2 H

- Length/credit: 1 year - 1.0 credit
- Grade(s): 9, 10, 11, 12
- Prerequisite: Latin 1/1H or Middle School recommendation.
- Course Number: 05030903

Course Description: This course is a continuation of two years of Middle School Latin or Latin 1H. Latin 2H includes a comprehensive review of the principles and fundamentals of the first year course and the beginning of an advanced study of Latin grammar. Students continue to expand their Latin vocabulary and, through the study of derivatives, expand their English vocabulary as well. Students apply this knowledge as they strengthen their translation skills. Students read selections from a number of Roman prose authors. Cultural studies will include mythology, daily life, Roman history, and other topics. The course also includes the celebrations of Roman festivals. Students learn through pronunciation and grammar drills, syntax exercises, pair or small group work, utilization of various technologies, projects, and games. This course prepares students to enter Latin 3H.

Latin 3

- Length/credit: 1 year - 1.0 credit
- Grade(s): 10, 11, 12
- Prerequisite: Successful completion of Latin 2 and teacher recommendation
- Course Number: 05031102

Course Description: This course is a continuation of Latin 2. Students continue to expand their Latin vocabulary and, through the study of derivatives, expand their English vocabulary as well. Students learn increasingly complex grammatical structures. Cultural studies build on previous studies about mythology, daily life, and Roman history. Students learn through pronunciation and grammar drills, syntax exercises, pair or small group work, utilization of various technologies, projects and games.

Latin 3 H

- Length/credit: 1 year - 1.0 credit

- Grade(s): 9, 10, 11, 12
- Prerequisite: Successful completion of Latin 2H and teacher recommendation
- Course Number: 05031203

Course Description: This rigorous course is a continuation of Latin 2H. The course begins with a thorough review of the Latin grammar covered in Latin 2H and the study of the remaining key grammatical structures, including the subjunctive mood and its uses and gerunds & gerundives. The students will read original Latin for the first time through a variety of authors and genres. The students will strive for accurate and contextually appropriate translations, while displaying knowledge of the grammar constructions that constitute the passage. This course prepares students to enter Latin 4H.

Latin 4 H

- Length/credit: 1 year - 1.0 credit
- Grade(s): 10, 11, 12
- Prerequisite: Successful completion of Latin 3H and teacher recommendation
- Course Number: 05031403

Course Description: This rigorous course constitutes the prose half of the AP Latin syllabus. In this course, students read selections from the letters of Pliny the Younger and various teacher-selected prose texts, concluding with a poetry unit learning about hexameter and figures of speech, while translating poetry from Ovid's *Metamorphoses*. Class work focuses on accurate translation informed by knowledge of grammar and syntax, figures of speech, scansion, mythology, and the world of ancient Rome. Students also have extensive practice in sight-reading Latin texts and in writing analytical essays about literature. This course prepares students for AP Latin or Advanced Latin Literature.

AP Latin H

- Length/credit: 1 year - 1.0 credit
- Grade(s): 11, 12
- Prerequisite: Successful completion of Latin 4H and teacher recommendation
- Course Number: 05031704

Course Description: The AP syllabus features readings from Vergil's *Aeneid*, considered one of the greatest poems in western literature. Students continue to develop skills in translation and literary analysis. They learn more about the nuances of the Latin hexameter verse form and the way Vergil employs it along with figures of speech to heighten or adumbrate the meaning of the text. Students work on translations in class and further refine their ability to produce accurate, literary translations. Students also have extensive practice in sight-reading Latin texts and in writing analytical essays about the literature. After the successful completion of this course, students will be prepared to take the Advanced Placement Examination.

Advanced Latin Literature H

- Length/credit: 1 year - 1.0 credit
- Grade(s): 12

- Prerequisite: Successful completion of Latin 4H and teacher recommendation
- Course Number: 05031803

Course Description: This course includes selected readings from a variety of authors, selected from the prose of authors such as Cicero and Livy and the poetry of Catullus, Horace, Ovid, and Vergil. Students will explore the themes of love, friendship, betrayal, and the underlying motif of *carpe diem* through the literature. Students will continue to refine their translation and literary analysis skills, in addition to increasing their facility in scansion and syntactical understanding. Students have extensive practice in sight reading Latin texts and in writing analytical essays and reflections about the literature.

Spanish Courses

Spanish for Spanish Speakers 1H and 2H

- Length/credit: 1 year - 1.0 credit
- Grade(s): 9, 10, 11, 12
- Prerequisite: Written sample and oral interview to determine proficiency in Spanish.
- Course Number 1 H: 05022003
- Course Number 2 H: 05022103

Course Description: These courses are designed for Spanish heritage and/or native speakers. Students focus on maintaining proficiency in Spanish, while expanding the bilingual range moving beyond developing initial expressive and receptive language abilities. Students grow in an awareness about the differences between standard Spanish and other varieties, formal and informal Spanish, and literacy skills in Spanish.

Spanish 1

Spanish 1H

- Length/credit: 1 year - 1.0 credit
- Grade(s): 9, 10, 11, 12
- Prerequisite: No experience in Spanish or Middle School recommendation.
- Course Number: 05020152
- Course Number H: 05020303

Course Description: This course introduces students to the Spanish language, and it is intended for students who have never studied Spanish or have had no more than one year of Middle School Spanish study. In Spanish 1, students begin to read, write, and develop a familiarity with the Spanish language. Students begin to learn about the culture of Spanish speaking countries and to draw comparisons to their own culture. Students in Spanish 1 engage in spontaneous dialogues, projects, games, and paired, group and whole class activities. They are exposed to various text types as they practice reading, writing, listening, and speaking within a cultural context. By the end of the course, students are able to express themselves orally and in writing in familiar situations. Students will complete the same tasks and assessments and Spanish 1 students will be provided the necessary scaffolding and supports. This course is designed to prepare students for Spanish 2/2H.

Intermediate Spanish

- Length/credit: 1 year - 1.0 credit
- Grade(s): 9, 10, 11, 12
- Prerequisite: Spanish 1/1H teacher recommendation or Middle School Recommendation.
- Course Number: 05020202

Course Description: This course provides time and review of Spanish 1 themes and skills. It is intended for students who have had one year of middle school Spanish study, one year of high school Spanish, or to best prepare for success in Spanish 2. The class proceeds at a moderate pace and includes a review of Spanish 1 material to talk about themselves and others and in everyday situations and contexts. Students have more opportunities to read, write and develop a familiarity with the Spanish phonetic and spelling system. Students continue to learn about the culture of Spanish speaking countries and to draw comparisons to their own culture. Students in Intermediate Spanish engage in dialogues, projects, games, paired, group and whole class activities. This course is designed to prepare students for Spanish 2.

Spanish 2

Spanish 2H

- Length/credit: 1 year - 1.0 credit
- Grade(s): 9, 10, 11, 12
- Prerequisite: Spanish 1/1H/Intermediate or Middle School recommendation.
- Course Number: 05020802
- Course Number H: 05020903

Course Description: This course is a continuation of Spanish 1/1H or Middle School Spanish designed for students interested in further developing proficiency in the Spanish language. Students strengthen their reading, writing, listening, and speaking skills through a wide range of activities and with the aid of multiple resources including video, music, technology, and various texts. Students learn to express themselves in Spanish with greater confidence and clarity as they expand their vocabulary and gain experience with more complex grammatical and linguistic structures. At this level, students are expected to interact with one another in Spanish to simulate a wide range of everyday encounters with peers in the target language. Various forms of exposure to new topics keep the students learning at a comfortable pace. Students continue to learn about the culture of Spanish speaking countries and to draw comparisons to their own culture. Students in Spanish 2/2H engage in role plays, dialogues, projects, games, paired, group and whole class activities and are exposed to various text types as they practice reading, writing, listening, and speaking within a cultural context. Students will complete the same tasks and assessments and Spanish 2 students will be provided the necessary scaffolding and supports. This course is designed to prepare students for Spanish 3 or 3H.

Spanish 3

- Length/credit: 1 year - 1.0 credit
- Grade(s): 9, 10, 11, 12
- Prerequisite: Successful completion of Spanish 2 or Middle School Spanish and teacher

recommendation

- Course Number: 05021102

Course Description: This course is a continuation of Spanish 2/2H for students working toward an intermediate level of proficiency. Students learn to express themselves in Spanish with greater confidence and clarity as they expand their vocabulary and gain experience with more complex grammatical and linguistic structures. At this level, students are increasingly expected to interact with one another in Spanish to simulate a wide range of everyday encounters with peers in the target language. Students continue to learn about the culture of Spanish speaking countries and to draw comparisons to their own culture. Students enhance reading, writing, listening, and speaking skills through a wide range of activities and with the aid of multiple resources including video, music, technology, and multiple text types. This course is designed to prepare students for Spanish 4.

Spanish 3H

- Length/credit: 1 year - 1.0 credit
- Grade(s): 9, 10, 11, 12
- Prerequisite: Successful completion of Spanish 2H or Middle School Spanish and teacher recommendation
- Course Number: 05021203

Course Description: Spanish 3H is an accelerated course that begins to prepare students for the Advanced Placement Spanish program or the IB Spanish Language B path. In Spanish 3H, students are expected to interact with one another in Spanish to simulate a wide range of everyday encounters with peers in the target language. Grammar and vocabulary from the previous year are reviewed as students incorporate more advanced grammatical structures and vocabulary. They are exposed to various text types as they practice reading, writing, listening, and speaking within a cultural context. Authentic materials and readings are utilized, and students begin to communicate at an intermediate level proficiency. This course is designed to prepare students for Spanish 4H.

Spanish 4

- Length/credit: 1 year - 1.0 credit
- Grade(s): 10, 11, 12
- Prerequisite: Successful completion of Spanish 3 and teacher recommendation.
- Course Number: 05021302

Course Description: This intermediate-level course is a continuation of Spanish 3. Students learn to express themselves in Spanish with greater confidence and clarity as they expand their vocabulary and gain experience with more complex grammatical and linguistic structures. At this level, students are expected to interact with one another in Spanish to simulate a wide range of encounters in the target language. Students continue to learn about the culture of Spanish speaking countries and to draw comparisons to their own culture. Students enhance reading, writing, listening, and speaking skills through a wide range of activities and with the aid of multiple resources including film, music, technology platforms, audio recordings and multiple text types. This course is designed to prepare students for Advanced Spanish Conversation and Culture H.

Spanish 4 H

- Length/credit: 1 year - 1.0 credit
- Grade(s): 10, 11, 12
- Prerequisite: Successful completion of Spanish 3H and teacher recommendation
- Course Number: 05021403

Course Description: Spanish 4H is an accelerated continuation of Spanish 3H that continues to prepare students for Advanced Placement Spanish study. Class is conducted in Spanish and students converse with each other and with the teacher in Spanish. Grammar and vocabulary from the previous year are reviewed as students incorporate more advanced grammatical structures and vocabulary. Students in Spanish 4H engage in research, literary analysis, debates, projects, and paired, group and whole class activities. They are exposed to various text types as they practice reading, writing, listening, and speaking within a cultural context. Authentic materials and readings are utilized in Spanish 4H. This course prepares students to continue with AP Spanish Language, Advanced Spanish Literature and the Arts H, or Advanced Spanish for Global Competence H.

Advanced Spanish Conversation and Culture H

- Length/credit: 1 year - 1.0 credit
- Grade(s): 12
- Prerequisite: Successful completion of Spanish 4 and teacher recommendation
- Course Number: 05021813

Course Description: This is an engaging, high-level course for students who have completed Level 4 and are interested in continuing their language studies. The purpose of this course is to use the target language to explore current and historical topics of interest through local, national, and global lenses. Through these topics, students will improve speaking, listening, reading, and writing skills in the target language. Students learn to express themselves in Spanish with greater confidence and clarity as they expand their vocabulary and gain experience with more complex grammatical and linguistic structures. Students will explore film, fictional and nonfictional text, current events, and music in Spanish.

Advanced Spanish Literature and the Arts H

- Length/credit: 1 year - 1.0 credit
- Grade(s): 12
- Prerequisite: Successful completion of Spanish 4H and teacher recommendation
- Course Number: 05021603

Course Description: This is a rigorous course for students who have completed Level 4H, Advanced Spanish for Global Competence H, or AP Spanish Language. The purpose of this course is to use the Spanish/French language and prominent works of art and literature as vehicles to bring students closer to the cultures of the Spanish speaking world. Students continue to greatly expand and refine their speaking, listening, reading and writing skills in Spanish. Students read fiction, non-fiction, short stories, plays and articles and have an opportunity to learn more about the arts in Spanish Speaking countries and the history, culture, and social contexts in which the work was created. Students will view films that depict and interpret the lives and times of the artists or that connect to the literature

being studied. This course includes an exploration of complex grammar and is conducted entirely in the target language.

AP Spanish Language

- Length/credit: 1 year - 1.0 credit
- Grade: 10, 11, 12
- Prerequisite: Successful completion of Spanish 4H and teacher recommendation
- Course Number: 05021704

Course Description: This course is offered in a total immersion environment. The course is the equivalent of a university-level course and therefore places rigorous demands on students and proceeds at an accelerated pace. One of the goals of the Advanced Placement Program is to prepare students to successfully complete an AP exam. Students improve their language proficiency through a more in-depth study of Spanish grammar and through the analysis of Hispanic Literature and various media forms. Students are required to express their reactions in written and oral form displaying richness of vocabulary, use of idiomatic expressions and evidence of complex syntax. At the conclusion of the course, students are able to continue their language studies at the college levels. Students are encouraged to take the AP exam offered by the College Board's Advanced Placement Program.

Advanced Global Competence in Spanish H

- Length/credit: 1 year - 1.0 credit
- Grade: 12
- Prerequisite: Successful completion of Spanish 4H and teacher recommendation.
- Course Number: 05021803

Course Description: This is a rigorous course for students who have completed Level 4H, Advanced Spanish Literature and the Arts, or AP Spanish Language. The purpose of this course is to examine the majority and minority voice in literature, film, art, and music in the Spanish language. Through teacher guided and independent readings and films, students explore issues of social justice, consider the needs of communities, and view issues through a historic and future oriented lens. The course emphasizes strategic use of language in regard to audience, purpose, and command of language and will be conducted exclusively in the target language.

Additional Course Offerings

Senior Project, Personal Finance, Becton Scholars, & POWER Scholars

Senior Project

- Length/credit: 1 semester - 0.5 credit
- Grade: 12
- Course Number: 14040100

Course Description: A Lower Merion School District Senior Project is completed by every graduate.

The project is a self-directed, investigative exploration of a topic of interest to the individual student. Each senior meets with a faculty advisor from January through April. During these meetings, students develop a research proposal, plan the experimental learning phase (ELP), and complete a reflective paper to be submitted the first week of May. An extended period of independent time is used by each student for intense focus on the ELP and preparation of a presentation. Seniors earn 0.5 of credit for the Senior Project. Each senior earns a grade of “P” or “F” for each of the following: third quarter, fourth quarter, and the final presentation. The student must pass at least two of these grading periods to earn an overall passing grade of “P” for the Senior Project.

Personal Finance

- Length/ credit: 1 semester- 0.5 credit
- Grade: 9, 10, 11, 12 (graduation requirement for Class of 2030 students)
- Course Number: 140030102

Course Description: In this semester course, students will learn the essential skills to make informed, responsible financial decisions for their futures. Aligned with Pennsylvania’s *Academic Standards for Personal Finance*, the course explores earning income, budgeting and spending, saving and investing, managing credit, understanding insurance, protecting against financial risk, and the context around such decisions. Through hands-on projects and simulations, students will apply what they learn to real-life situations such as paying for college, comparing job offers, creating budgets, and planning for long-term goals. By the end of the course, students will be prepared to navigate the financial choices of adult life with confidence, purpose, and integrity.

Becton Scholars Seminar - offered at Lower Merion High School only

- Length/Credit: 1 year (1 time per cycle) 0.33 credit OR 1 year (2 times per cycle) 0.667 credit
- Grade(s): 9, 10, 11, 12
- Course Number: 14080100 - 14080700

Course Description: Seminar is a course for students who participate in the Lower Merion High School Becton Scholars Program. Emphasis is placed on the learning and enhancement of effective goal setting, study skills, time management strategies, note-taking/making, close reading and critical thinking techniques for the purpose of ensuring access to a viable and challenging instructional experience that better prepares students for college and career. Students receive direct instruction in standardized test taking strategies and work collaboratively to generate, plan, and execute service opportunities both within the Becton Scholars Program and the larger school community with the goal of developing leadership skills and becoming more productive and contributing citizens.

POWER Scholars Program - offered at Harriton High School only

- Length/Credit: 1 year (1 time per cycle) 0.33 credit
- Grade(s): 9, 10, 11, 12
- Course Number: 14090100

Course Description: POWER Scholars is a course for students who participate in the Harriton High School POWER Scholars Program. Emphasis is placed on the learning and enhancement of effective

goal setting, study skills, time management strategies, note-taking/making, close reading and critical thinking techniques for the purpose of ensuring access to a viable and challenging instructional experience that better prepares students for college and career. Students receive direct instruction in proven standardized test taking strategies and work collaboratively to generate, plan, and execute service opportunities both within the POWER Scholars Program, as well as the larger school community. Within the class, students also learn about the contributions of people of color to civilization, social activism, and progress.

Gifted Education Support and Services

Gifted education supports and services are provided when data indicate a need for specially designed instruction to meet the strengths of students identified as mentally gifted. These specially designed supports and services are identified annually in the Gifted Individualized Education Plan (GIEP) through collaboration by the GIEP team. These supports and services are provided as enrichment, acceleration, or a combination of both, when determined appropriate by the GIEP team, to help students make meaningful progress towards annual academic goals that are aligned to Pennsylvania's Core Standards. Students receive specially designed instruction across the school day, both in Academic Seminar and in the general education classroom. Academic Seminar is one enrichment option available to students identified as mentally gifted when determined appropriate by GIEP teams. The curricula for Academic Seminar consist of more complex and in-depth studies of significant ideas and key concepts, skills and thought processes explored in the general education curricula. The Academic Seminar curricula emphasize higher-level thinking, creativity and problem-solving skills that help students to recognize complex relationships and arrive at sound generalizations.

Academic Seminar

- Length/credit: 1 year –up to 0.33 credit
- Grade(s): 9, 10, 11, 12
- Course Numbers:
 - Academic Seminar 9: 14040500
 - Academic Seminar 10: 14040600
 - Academic Seminar 11: 14040700
 - Academic Seminar 12: 14040800

Each student's Gifted Individualized Education Program (GIEP) team determines whether the student will participate in this course.

Special Education Support and Services

Special Education supports and services are available to eligible students attending Lower Merion School District High Schools. Eligibility for special education supports and services is determined by a multidisciplinary team that includes the student's parent(s)/guardian(s) and the student, if appropriate, following receipt of signed permission to evaluate from the student's

parent(s)/guardian(s). If the student is found to be eligible for Special Education supports and services, the team will next determine his or her need for specially designed instruction and create an Individualized Education Program (IEP) for the student. The student's parent(s)/guardian(s) are then provided with a Notice of Recommended Educational Placement (NOREP) that proposes the appropriate supports and services in the least restrictive environment. Special Education services will begin only when the District receives written consent from the parent(s)/guardian(s) in the form of an approved NOREP.

Subsequent to the creation and implementation of the initial IEP, the IEP team reconvenes on at least an annual basis to review the student's progress and to review and revise the IEP. The District provides a variety of Special Education supports and services for students based upon individual needs, including but not limited to speech/language therapy, physical therapy, occupational therapy, hearing therapy, and vision therapy, as appropriate.

Special Education Courses

Each student must be recommended for these courses by his or her IEP team.

Instructional Support Lab (ISL)

- Length/credit: 1 year - 0.33 to 1.0 credit
- Grade(s): 9, 10, 11, 12
- Course Number: Determined by IEP team.

Course Description: Students may participate in an Instructional Support Lab (ISL) for a prescribed number of class periods per cycle depending upon the program described within their IEPs. Individualized skill remediation is provided as per each student's IEP targeting a student's individual needs. Students receive direct instruction and additional support to ensure meaningful progress, maximize their achievement and assist students in their transition to a variety of postsecondary opportunities, including attending college, technical or vocational schools, participating in career readiness programs or volunteering in the community. Students earn quarterly grades based on the appropriate work completed on their individualized goals. Participation is determined by a student's IEP team based on individual needs.

Academic Literacy

- Length/credit: 1 year - 0.33 - 1.0 credit
- Grade(s): 9, 10, 11, 12
- Course Numbers: Determined by IEP team.
 - Academic Literacy 1: 15160100
 - Academic Literacy 2: 15160200
 - Academic Literacy 3: 15160300
 - Academic Literacy 4: 15160400

Course Description: This course is designed for students who require significant additional content area instruction and support in the areas of vocabulary, comprehension, and higher order critical

reading skills to negotiate various texts, particularly grade level content area textbooks. Participation is determined by a student's IEP team based on individual needs.

Math Literacy

- Length/credit: 1 year -0.33- 1.0 credit
- Grade(s): 9, 10, 11, 12
- Course Numbers: Determined by IEP team.
 - Math Literacy 1: 15030500
 - Math Literacy 2: 15030700
 - Math Literacy 3: 15030800
 - Math Literacy 4: 15030900

Course Description: This course is designed for students who require significant additional math instruction and support in the areas of computation, concepts, and applications to achieve standards for numbers and operations, algebraic concepts, geometry, and measurement, data, and probability addressed in Integrated Math 1, Integrated Math 2 and Integrated Math 3. Participation is determined by a student's IEP team based on individual needs.

Reading

- Length/credit: 1 year - 0.33 - 1.0 credit
- Grade(s): 9, 10, 11, 12
- Course Numbers: Determined by IEP team.
 - Reading 1: 15060100
 - Reading 2: 15060200
 - Reading 3: 15060300
 - Reading 4: 15060400

Course Description: Students are provided individualized reading programs determined by a student's IEP team based on individual needs.

Adaptive Physical Education

- Length/credit: 1 year - 0.33 credit -1.0 credit
- Grade(s): 9, 10, 11, 12
- Course Number: 5190100

Course Description: Participation in this course is determined by a student's IEP team based on individual needs.

Social Language Lab

- Length/credit: 1 year - 0.33-1.0 credit
- Grade(s): 9, 10, 11, 12
- Course Numbers: Determined by IEP team.
 - Social Language Lab 1: 15180100
 - Social Language Lab 2: 15180200

- Social Language Lab 3: 15180300
- Social Language Lab 4: 15180400

Course Description: This course is specifically designed with a hands-on curriculum to further develop linguistic, strategic, socio-relational, and sociolinguistic competencies. The curriculum focuses on: social interactions with a variety of communication partners; pragmatic language skills; problem-solving in school, vocational and community settings; theory of mind; and individual goals and objectives identified in each student's IEP. Students utilize a variety of strategies that include (but are not limited to) role-playing, video modeling, self-evaluation, and writing analysis to complete practical application assignments and activities and reflect upon their performances on these tasks. Participation is determined by a student's IEP team based on individual needs.

Math Applications

- Length/credit: 1 year- 0.33- 1.0 credit
- Grade(s): 9, 10, 11, 12
- Course Numbers: Determined by IEP Team
 - Math Applications 1: 15080501
 - Math Applications 2: 15080601
 - Math Applications 3: 15080701
 - Math Applications 4: 15080801

Course Description: Math Applications is a functional math course that is designed to provide students with an understanding and/or review of the essential mathematical concepts necessary for further advancement in mathematics with an emphasis on real-world uses of mathematics. Instruction is based upon Alternate Eligible content aligned to the PA Core Standards. Technology, including calculators and computer software programs, is incorporated to appropriately supplement instruction. Participation is determined by a student's IEP team based on individual needs.

Basic Math

- Length/credit: 1 year - 1.0 credit
- Grade(s): 9, 10, 11, 12
- Course Numbers: Determined by IEP team.
 - Math 1: 15080100
 - Math 2: 15080200
 - Math 3: 15080300
 - Math 4: 15080400

Course Description: This functional, hands-on curriculum supports transition to postsecondary education/training, employment and independent living. Instruction is based upon alternate eligible content aligned to the PA Core Standards. Individualized instruction using currency and debit materials helps students learn to access the community. Students learn skills and strategies to budget and purchase items during the school week. Community-based instructional experiences may be scheduled to help students generalize instruction and practice skills in authentic settings. Participation is determined by a student's IEP team based on individual needs.

Practical English

- Length/credit: 1 year - 1.0 credit
- Grade(s): 9, 10, 11, 12
- Course Numbers: Determined by IEP team.
 - Practical English 1: 15070100
 - Practical English 2: 15070200
 - Practical English 3: 15070300
 - Practical English 4: 15070500

Course Description: This practical, hands-on curriculum supports transition to postsecondary education/training, employment and independent living through individualized strategy and skills-based instruction in reading comprehension and written expression. Instruction is based upon alternate eligible content aligned to the PA Core Standards. Community-based instructional experiences may be scheduled to help students generalize instruction and practice skills in authentic settings. Participation is determined by a student's IEP team based on individual needs.

Real World Literacy

- Length/credit: 1 year - 1.0 credit
- Grade(s): 12
- Course Number: 15070400

Course Description: Real World Literacy is designed to teach students the functional literacy and math skills necessary to meet their transition goals in the areas of employment and independent living. The program utilizes a simulated apartment setting to address literacy and math skills the students will need to locate and secure apartments and jobs, open and maintain bank accounts, generate, and maintain a budget, manage an apartment/home, etc. This course provides authentic practice for application of literacy and math skills to employment and independent living activities, including but not limited to use of realistic forms (e.g., bills, taxes, applications, etc.), resume writing, etc. Participation is determined by a student's IEP team based on individual needs.

Fundamentals of History

- Length/credit: 1 year - 1.0 credit
- Grade(s): 9, 10, 11, 12
- Course Numbers: Determined by IEP team.
- Fundamentals of History 1: 15090100
- Fundamentals of History 2: 15090200
- Fundamentals of History 3: 15090300
- Fundamentals of History 4: 15090500

Course Description: This practical, hands-on curriculum supports transition to postsecondary education/training, employment and independent living through individualized strategy and skills-based instruction in reading comprehension and written expression. Instruction is based upon alternate eligible content aligned to the PA Core Standards. Community-based instructional

experiences may be scheduled to help students generalize instruction and practice skills in authentic settings. Participation is determined by a student's IEP team based on individual needs.

Fundamentals of Science/Health

- Length/credit: 1 year - 1.0 credit
- Grade(s): 9, 10, 11, 12
- Course Numbers: Determined by IEP team.
 - Fundamentals of Science/Health 1: 15100100
 - Fundamentals of Science/Health 2: 15100200
 - Fundamentals of Science/Health 3: 15100300
 - Fundamentals of Science/Health 4: 15100400

Course Description: This functional, hands-on curriculum supports transition to postsecondary education/training, employment and independent living and may be linked to community-based instructional experiences. Instruction is based upon alternate eligible content aligned to the PA Core Standards. Course topics include basic hygiene practices, changes in the body, healthy eating behaviors, and when to seek medical attention. Vocabulary and reading comprehension instruction is embedded into instruction and classroom discussions. Participation is determined by a student's IEP team based on individual needs.

Work Experience

Students that choose to participate in work experiences have the opportunity to: 1) develop job readiness behaviors, such as coping skills for working with fellow employees; 2) develop pre-vocational and vocational skills, such as problem-solving, decision-making, and following directions; and 3) participate in work experiences which include a variety of unpaid positions both inside Lower Merion School District and at community sites. Participation is determined by a student's IEP team based on individual needs.

Introduction to Work Experience

This course is specifically designed as a foundation course to introduce transition skills to students in the Autism and Specialized Learning Support Programs. The curriculum focuses on four units: Self-Esteem and Social Skills, Problem-Solving in School, Job Awareness, and Work Attitudes. Students begin to assemble a Personal Futures Planning Portfolio including values, interests and aptitude surveys. Guest speakers and field trips supplement in-class work. Students learn and practice transition skills in a supported environment within the high school community. Participation is determined by a student's IEP team based on individual needs.

Work Experience

This course is a hands-on curriculum designed for students in the Autism and Specialized Learning Support programs. Various types of jobs and post-secondary training options are explored. Students have multiple opportunities to practice employability skills in the classroom and on the high school campus. Job shadowing opportunities are also available. Work experience off-campus may be offered if deemed appropriate by the IEP team. Participation is determined by a student's IEP team based on

individual need.



**Enter to learn.
Go forth to serve.**