Moon Area High School

Program of Studies
2026-2027

Moon Area High School
8353 University Boulevard
Moon Township, PA 15108
412-264-9440

High School Administration

Mr. Thomas M. Misko	Principal
Ms. Nicole Hegerich	Assistant Principal (11 & 12)
Ms. Elise Casello	Assistant Principal (9 & 10)

School Counselors

Ms. Deanne Hinerman	Ext. 2010
Ms. Emily Smith	Ext. 2011
Ms. Patricia Johnson	Ext. 2012
Ms. Julie Sitko	Ext. 2038

District Administration

Dr. Jason D'Alesio	Superintendent
Dr. Lauren Morgan	Assistant Superintendent
Ms. Ashley Beeson	Director of Pupil Services
Ms. Christina Frazier	K-12 Curriculum Director
Dr. David Gallup	Safety and Operations Director
Ms. Jessica Drylie	Fiscal & School Services Director
Dr. Kim Prevost	Data and Analysis Director
Mr. John Daniels	Facilities Director
Ms. Kellie Crago	Human Resource Director
Mr. Casey Kaiser	Technology Director
Mr. Alan Alcalde	Athletic Director
Ms. Christine Leininger	Food Services Director

School Board

Mr. David White	President
Dr. Morgan Mihok	Vice President
Ms. Kristin Sainovich	Secretary
Ms. Sarah Simmons	Treasurer
Mr. Ben Brands	Board Member
Mr. Adam Gill	Board Member
Mr. Bryan Seybert	Board Member
Ms. Jen Suehr	Board Member
Mr. Robert Zieger	Board Member

Table of Contents

This Program of Studies is distributed to explain the curriculum and course options at Moon Area High School for the 2026-2027 school year. It has been prepared to assist you in planning an effective and realistic high school program. In addition to the course offerings, the Program of Studies contains descriptions of courses, graduation, and scheduling requirements. Plan to refer to this throughout the year for future planning.

The high school counselors will meet with all students to review this Program of Studies. They will further explain the scheduling process. Students must activate their Student Information System (SIS) account to request courses for the 2026-2027 school year. Students and parents will be able to review these courses online through the SIS. Every attempt will be made to schedule students for the courses they request; however, some courses have limited availability. Schedules will be posted in the summer. Once scheduled, all schedule changes must follow "Procedures for Course Changes."

Please take the opportunity to carefully review the course offerings to be certain that you are selecting courses that are both of personal interest and will fulfill the graduation requirements established by the Moon Area School District. Be certain that you have met the necessary prerequisites for each course that is requested. Please feel free to consult with counselors, teachers, and administrators to have other questions and concerns addressed.

Our Mission

The mission of Moon Area High School is to educate every student in a respectful, safe, enriching environment through comprehensive programs that inspire excellence, life-long learning, and responsibility.

The Moon Area School District is an equal opportunity education institution and will not discriminate based on race, color, national origin, sex and handicap in its activities, programs or employment practices as required by Title VI, Title IX and Section 504.

For information regarding civil rights, grievance procedures or services, activities and facilities that are accessible to and usable by handicapped persons, contact Dr. Lauren Morgan, TitleIX/Section 504 Coordinator at 8353 University Blvd, Moon Township, PA 15108. Phone: (412) 264-9440.

Our Vision

Future Ready: With purpose, innovation, and excellence, we support and guide Moon Area School District students as they choose their pathway to prepare for college and career success.

Philosophy and Beliefs

Moon Area High School recognizes each individual's potential and unique capabilities and accepts the challenge of providing a stimulating environment for all students to develop into inquisitive and informed life-long learners.

Respect, integrity, trust, cooperation, and tolerance are important personal attributes that foster a positive and productive school environment. Moon Area High School encourages acquisition and daily application of these traits in conjunction with academic excellence, personal accountability, and effort.

Moon Area High School will capitalize on strengths and effectively address weaknesses through ongoing evaluation and adjustment of curricula, technology, extracurricular activities, and community outreach programs to meet the diverse needs of students in a dynamic, global society. Moon Area High School continually encourages a Tradition of Excellence in academics, the arts, activities, and athletics.

Belief Statements

- Every person is unique and has intrinsic worth.
- Fostering understanding and appreciation of cultural diversity enriches lives.
- Recognition and encouragement inspire motivation and dedication.
- Students, staff, and guests have a right to feel safe and secure.
- An academic and work environment free of discrimination and harassment encourages a comfortable and productive learning atmosphere.
- Honest and open communication among the school population is essential for understanding and trust.
- Education is a shared responsibility of the student, faculty, family, and community.
- A quality education is basis for success and the most valuable asset for the future.
- Higher expectations promote greater achievement.
- A challenging education builds critical thinking and problem-solving skills for tomorrow's work force.
- Relevance is an important catalyst for learning.
- Rigorous curricula and challenging assessments reflect high expectations.
- Teamwork and leadership opportunities allow for personal growth.
- School pride and spirit motivate students and staff.
- Good sportsmanship reflects the character of Moon Area High School.
- Communities thrive when all individuals contribute.

Course Selection Requirements

All freshmen and sophomores will request 7.0 credits per year. Juniors and seniors will request a minimum of 6.5 credits per year. However, juniors and seniors are encouraged to take a full schedule. Every effort will be made to schedule requested courses, however elective courses are never guaranteed.

Requirements for Grade Advancement

A student must have earned 5.0 credits to enter grade 10, 11.0 credits to enter grade 11 and 17.0 credits to enter grade 12. No student will be classified as a senior unless they have earned 17.0 credits and is a confirmed candidate for graduation by the end of the school year.

Grading System: Letter Grades, Their Percentages and Grade Points

Grading Scale	1 Credit Unweighted GP	.5 Credit Unweighted GP	Honors Weighted GP	AP/CHS Weighted GP
A = 90-100	4.0	2.0	4.5	5.0
B = 80-89	3.0	1.5	3.5	4.0
C = 70-79	2.0	1.0	2.5	3.0
D = 60-69	1.0	0.5	1.5	2.0
F = 0-59	0	0	0	0

The Grade Point Average (GPA) is computed using grades earned in courses taken at Moon Area High School. Total grade points earned in all courses are divided by total attempted credits. Both current (year-end) and cumulative GPA's are reflected on transcripts. Cumulative GPA's are recalculated at the end of each semester.

Honor Roll Designations

A grade of "F" in any course will automatically eliminate the student from the Honor Roll regardless of grade point average.

Honor Roll

Any student who earns a 3.25 - 3.84 grade point average will be listed on the quarterly Honor Roll.

High Honor Roll

Any student who earns a 3.85 – 4.00 grade point average or higher will be listed on the quarterly High Honor Roll.

Distinguished Honor

Any student who earns a 4.00 grade point average or higher will be listed on the quarterly Distinguished Honor Roll.

GPA Calculation

The grade point average is determined by adding the total number of grade points earned in completed courses divided by the total number of credits attempted.

Graduation Requirements

In compliance with Chapter 4 regulations of the Pennsylvania Department of Education and Moon Area School District policy, Moon Area graduates must earn a minimum of 24 credits to earn a Moon Area High School Diploma. Graduation credits accumulate in grades 9 – 12. Moon Area High School graduation requirements shall include:

1. For the Class of 2027, completion of 24 credits as outlined in each subject listed below:

4.0	English	2.0	Physical Education
4.0	Social Studies	0.5	Health 10
3.0	Science	2.5	Arts and Humanities / Personal Finance
3.0	Mathematics	5.0	Electives
Arts and Humanities include - World Languages, Art, Fine Arts, Business, Family and Consumer Sciences, Technology Education and Elective Social Studies.			

2. Satisfactory completion of a career readiness project planned for junior year; information is available on the school website
3. Satisfactory Completion of Personal Finance
4. Meet Pennsylvania Graduation Requirements – Act 158 (See Below)

Pennsylvania Graduation Requirements -- Act 158

Act 158 of 2018 (Act 158), which was signed into law by Governor Tom Wolf on October 24, 2018, expands upon the options that students have for meeting Pennsylvania's graduation requirements. While Act 158 maintains that students will still be required to take the Keystone Exams for federal accountability purposes, students may not be required to achieve proficiency on the Keystone Exams to graduate, as long as they meet the requirements set forth by one of the following defined options.

These options, which are outlined below, apply to all students.

Option 1: Keystone Proficiency Pathway

- Students must earn a proficient or advanced score on all three Keystone Exams: Algebra I, Literature and Biology.

Option 2: Keystone Composite Pathway

Student must earn meet ALL of the following:

- Composite score of 4452 on the Algebra I, Literature and Biology Keystone Exams.
- Earn a 'proficient' or 'advanced' score on at least one of the three exams.
    - May NOT earn a 'Below Basic' score on either of the other two exams.

Option 3: Alternate Assessment Pathway

Student must earn a passing grade in the course(s) associated with each Keystone Exam on which the student did not earn at a proficient or advanced score. These courses include Algebra I, 10th grade English Language Arts and Biology.
Student must also achieve one of the following:

- Attainment of an established score on an approved alternate assessment (SAT, PSAT, ACT, ASVAB):
    - SAT: 1010
    - PSAT: 970
    - ACT: 21
    - ASVAB: The minimum score required for admittance to the armed services branch during the year the student graduates
- Gold Level on the ACT WorkKeys Assessment.
- Attainment of at least a '3' score on an Advanced Placement Program exam in an academic content area associated with each Keystone Exam on which the student did not achieve a proficient or advanced score.
- Successful completion of a concurrent enrollment course (ex. college-in-high school course) in an academic content area associated with each Keystone Exam in which the student did not achieve at least a proficient score.
- Successful completion of a pre-apprenticeship program; or
- Acceptance in an accredited 4-year nonprofit institution of higher education and evidence of the ability to enroll in college-level coursework.

Option 4: Evidence Based Pathway
Student must earn a passing grade in the course(s) associated with each Keystone Exam that a proficient or advanced score was not earned. These courses include Algebra I, 10th grade English Language Arts, and biology. Students must also demonstrate three pieces of evidence consistent with the student's goals and career plans, including:

- One of the following:
    - Attainment of an established score on the ACT WorkKeys assessment (Silver Level), a SAT subject test (score of 630), an Advanced Placement Program Exam (score of 3).
    - Acceptance to an accredited nonprofit institution of higher education other than a 4-year institution and evidence of the ability to enroll in college-level coursework.
    - Attainment of an industry-recognized credential; or
    - Successful completion of a concurrent enrollment or postsecondary course; and
- Two additional pieces of evidence, including one or more of the options listed above, or: satisfactory completion of a service-learning project; attainment of a score of proficient or advanced on a Keystone Exam; a letter guaranteeing full-time employment; a certificate of successful completion of an internship or cooperative education program; or satisfactory compliance with the NCAA's core courses for college-bound student athletes with a minimum grade point average (GPA) of 2.0.

Option 5: CTE Pathway

Students, who are Career and Technical Education (CTE) Concentrators, must earn a passing grade in the course(s) associated with each Keystone Exam on which a proficient or advanced score was not earned. These courses include Algebra I, 10th grade English Language Arts, and biology. Student must also attain an industry-based competency certification related to the CTE Concentrator's program of study or demonstration of a high likelihood of success on an approved industry-based competency assessment or readiness for continued meaningful engagement in the CTE Concentrator's program of study. For further explanation of the CTE Pathway, please see PDE's Act 6 guidance.

Criteria for Determining Graduation Ceremony Speakers

Up to 3 graduation ceremony speakers shall be selected each year by a committee headed by the principal based on the criteria listed below:

- Students must demonstrate academic excellence by being in the top decile measure of the senior class
- Students must demonstrate an acceptable level of involvement in school activities
- Students must demonstrate an acceptable level of verifiable community service
- Students must demonstrate verifiable, sustained leadership as a MAHS student

A completed application is required and must include an essay answering the question of why he/she should speak at the graduation ceremonies.

Advanced Courses – Requirements

Students are scheduled into Honors, CHS and AP courses based on successful completion of prerequisite courses, their grade point average and/or teacher recommendation. All students taking an AP course will be required to take the corresponding AP exam to receive the weighted grade point.

Homework

On average, homework shall not exceed 90 minutes per class per week. Homework for Accelerated, Honors and AP classes will exceed the typical times due to the rigor of the course(s). Average homework time is listed in the course descriptions for these courses.

Mathematics Placement

Students requesting the next math course in sequence must have a 60% or higher in their current math course and the approval of the current teacher. A grade of 96% or higher and teacher recommendation is required for students moving from Algebra 1 into Geometry Honors and Geometry to Algebra 2 Honors. Students who score basic or below basic on the Algebra 1 Keystone in 8th grade will be reenrolled in Algebra 1 in 9th grade.

Medical Exemptions from P.E.

A student may be excused from regular physical education only upon a physician's written recommendation for reasons of health or physical incapacity. For such circumstances, an alternative research paper will be assigned. Exempted students will be screened for possible placement in an alternative physical education program, within limitations set by a physician.

Procedures for Course Changes

Considerable time is spent each year with students to ensure that their course selections are meaningful and enhance the program of their choice. Student schedules resulting from the course selection process will be considered final. It is essential that requests for schedule reviews be held to a minimum (e.g. completion of summer school, failures, or inability to meet prerequisites).

Below is a list of practices and procedures the high school will use for responding to schedule review requests:

- Priority will be given to changes made necessary because of computer errors, adjustment in class size and other reasons of an administrative nature.
- Requests for course changes that follow the examples mentioned above, or similar situations, will be considered next. All requests for changes must be initiated in writing using the proper form through the Counseling Office. Students are responsible to complete the required form and must include all necessary teacher and parent signatures. Approval of any requests will be made based upon the advice of teachers, counselors, and principals.
- When selecting a course not previously taken, it will NOT be possible to change a schedule due to specific teacher preference.
- No course may be dropped after the first two weeks of school without receiving a failing grade for the remainder of the year. Any exception (e.g. medical reasons) to the drop procedure shall rest with the school administrators.
- No course may be added after the first two weeks except upon the advice of a counselor and approval of school administrators. The final decision for granting changes requested after this time shall rest with school administrators.
- These procedures apply to all courses taken at Moon Area High School including those courses taken at the Parkway West Career and Technology Center. They also apply to courses that begin meeting during the second semester.
- Courses without a sufficient level of student enrollment, as determined by administrators, may be dropped from the master schedule and therefore also from student schedules.

World Language Placement

Students requesting a world language must earn a 70% or higher in English. Students earning below 70% in the current language course will be required to repeat the course to strengthen their background.

NCAA Eligibility - Student Athletes

Students planning to participate in Division I, II, or III college athletics must ensure their academic studies align with NCAA standards.

Division I and II Requirements

For those aiming to play Division I or II colleges, it is crucial to begin preparing as early as ninth grade. Students must follow an NCAA-approved course of study and register with the NCAA Eligibility Center by May of their junior year. College coaches are prohibited from recruiting high school seniors until those students have completed their NCAA registration. Registration can be completed on the NCAA website.

A list of NCAA-approved courses is provided below. It is the responsibility of the students and their parents or guardians to ensure that their selected courses meet NCAA requirements. If there are any uncertainties about course approval, students should consult their school counselor before enrolling.

Student-athletes pursuing Division I or II athletics should also obtain a copy of the NCAA Guide for the College-Bound Athlete available through the School Counseling Office or on the NCAA website.

Academic Eligibility

To compete at the Division I or II level, students must meet specific requirements, including completing 16 NCAA-approved core courses and achieving the necessary GPA.

Division III Requirements

Students planning to attend a Division III school must meet the eligibility criteria established by their chosen institution, as Division III requirements differ from those of Division I and II.

NCAA Approved Courses

College bound student athletes who want to compete in NCAA Division I or II sports, need to meet certain division-wide requirements. Students who plan to attend a Division III school need to meet the eligibility requirements set forth by their schools. In general, for DI and II initial eligibility, students must take 16 specific and approved core courses as well as meeting specific GPA and ACT/SAT score requirements. ***It is the student's responsibility to review NCAA policies to ensure that he/she is taking the correct classes and fulfilling the requirements***.

ENGLISH

English 9A
English 10A
English 11A
English 12A
AP English Language
AP English Literature
Contemporary Fiction
Contemporary Issues
Contemporary Non-fiction
Creative Non-fiction Writing
English 9
English 10
English 11 College Prep
Film as Lit
Poetry
Pre-AP English 9
Pre-AP English 10
Survey of British Literature
Survey of World Literature
Theatre and the Dramatic Arts
Modern Writing Lab

SOCIAL STUDIES

AP European History
AP US Government and Politics
AP US History
Civics and Economics
Comparative World History 10
Honors Comp. World History 10
Modern Global History Honors
Modern Global History
Ethics
Practical Justice
Psychology
Sociology
US History 1865-1945
Honors US History 1865-1945

NATURAL/PHYSICAL SCIENCE

AP Biology
AP Chemistry
Biology
Honors Biology
Chemistry
Honors Chemistry
Integrated Science 1
Earth/Space Science
Hon. Human Anatomy & Physio.
Physical Science
Physics
CHS Physics
AP Physics 1

MATHEMATICS

Algebra 1
Algebra 2
Algebra 2A (.5 credit max)
Algebra 2B (.5 credit max)
AP Calculus AB
AP Calculus BC
Honors Algebra 2
Calculus
CHS/AP Statistics
Geometry
Hon. Geometry
Trig/Pre-Calculus
Honors Trig/Pre-Calculus

ADDITIONAL CORE COURSES

French I
French II
French III
French IV
Honors French IV
French V
Honors French V
German I
German II
German III
German IV
Honors German IV
German V
Honors German V
Spanish I
Spanish II
Spanish III
Spanish IV
Honors Spanish IV
Spanish V
Honors Spanish V

NCAA awards .5 credit for:

Algebra 2A
Algebra 2B

The following courses are not approved:

English 11
English 12
Core Geometry
Applied Biology
Business Math

College Testing Terms

Advanced Placement Exams (AP)

The Advanced Placement (AP) program offers students the opportunity to take college-level coursework while still in high school. Students may earn advanced placement or college credit based on their performance on AP exams, which are administered each May. These exams are scored on a scale of 1 to 5, with many colleges and universities awarding credit for scores 3, 4, or 5. Students should consult individual colleges to determine their specific credit policies.

AP scores are sent to the student's selected college in May of their senior year. Students choosing to take the AP exams must register in advance and are responsible for covering the associated costs. Students on free or reduced lunch will qualify for fee waivers, discounting the exam. Students enrolled in AP courses are required to take corresponding exams to qualify for the extra grade points to factor into their GPA.

ASVAB

The Armed Services Vocational Aptitude Battery (ASVAB) is a multiple-aptitude assessment that measures developed abilities and helps predict future academic and occupational success in the military. It is administered annually to more than one million military applicants, high school, and post-secondary students. Learn more about the ASVAB at: https://www.officialasvab.com/. The ASVAB is offered once in the fall and once in the spring at Moon Area High School.

Moon Area High School Course Offerings by Department

Art Department

Art 1-2-3-4	Animation*
Creative Art*	AP Art History
Photography 1*	Adaptive Art*
Photography 2*	Functional Ceramic Art*
CHS Graphic Design 1*	Hands-On Art*
Graphic Design 2*	
*Indicates that a course is a one-semester course (1/2 credit)	

Art 1 — Course 3500

Gr. 9, 10, 11, 12 — **1 Credit**

This course is designed as the beginning of a sequential art program and exposes the beginning student to all areas of art. Students will work with a variety of 2-D and 3-D mediums including, but not limited to: drawing, clay, painting, sculpture, and copper enamel.

Art 2 — Course 3505

Gr. 10, 11, 12 — **1 Credit**

Any student who has completed Art 1 may select this course. Students will use knowledge from Art 1 to build upon understanding in all areas of art. Projects for this course include, but are not limited to pastel, watercolor painting, drawing, plaster sculpture, clay, and metalwork.
Prerequisite: 70% or higher in Art 1 and teacher recommendation.

Art 3/4 — Course 3510

Gr. 11, 12 — **1 Credit**

Any student who has completed two full years of Art (Art 1 and Art 2) may elect this course. This course is designed for advanced students to further their understanding of art by working independently in the classroom in several areas of art. Students will work with such mediums as acrylic and oil paints, drawing, pastel, wood sculpture and clay. This class may be repeated for credit with a prerequisite of 70% during the current academic year.
Prerequisite: 70% or higher in Art 2 and teacher recommendation.

Creative Art* — Course 3520

Gr. 9, 10, 11, 12 — **.5 Credit**

This one-semester course explores the visual arts through a series of activities including drawing, painting, collage, optical art, tie-dye and more.

Photography 1* — Course 3525

Gr. 9, 10, 11, 12 — **.5 Credit**

This one-semester course will explore the visual arts through digital photography. Students will research the history of photography and understand such components as camera functions, composition, basic lighting principles, file formats and print display. Each student will develop a portfolio of prints which will be displayed. A digital camera is required for this course.

Photography 2* Course 3530

Gr. 9, 10, 11, 12 **.5 Credit**

This is a one-semester course which will build on the fundamentals learned in Photography I. Students will continue to work on composition and editing while applying these skills to new projects. Some project themes include portrait lighting, calendar design, abstract photography, and more. A digital camera is required for this course.
Prerequisite: 80% or higher in Photography I and teacher recommendation.

CHS Graphic Design 1* Course 3545

Gr. 9, 10, 11, 12 **.5 Credit**

This is a one-semester course designed for students who want to explore the visual arts through graphic design, creating digitally produced images using the software programs Adobe Illustrator and Photoshop. Students taking the course will acquire the necessary skills to manipulate photographs, create original 2-D illustrations and apply design and layout principles. Students who elect this course will have the opportunity to receive college credit through Carlow University.

Graphic Design 2* Course 3550

Gr. 9, 10, 11, 12 **.5 Credit**

This is a one-semester course that is an extension of Graphic Design 1. This course will explore various software plug-ins for Adobe Photo Shop and Illustrator, 3D modeling, animation multimedia presentations, and beginning Web Page design.
Prerequisite: 80% or higher in Graphic Design 1 with teacher recommendation.

Animation* Course 3555

Gr. 10, 11, 12 **.5 Credit**

This one-semester course will build on knowledge and skills formed in Graphic Design 2. Students will become familiar with the Lightwave program, which exposes them to the world of 3D through print, video gaming, movies, and TV. Students will acquire the skills necessary to model three-dimensional and animation.
Prerequisite: 80% or higher in Graphic Design 1 with teacher recommendation.

Advanced Placement Art History Course 3516

Gr. 11, 12 **1 Credit**

A year-long course, AP Art History is designed as a chance to analyze and interpret art from Prehistoric to Post Modern periods as well as its relation to ideas such as politics, religion, history, culture and more. This class will enable students to appreciate and understand art in all of its forms and functions. Students of AP Art History will apply critical thinking skills and develop the means to communicate concepts about art both verbally and through written compositions. Average time spent on homework per week: 2 hours.

Adaptive Art — Course 3517

Gr. 9, 10, 11, 12 — **.5 Credit**

Adaptive Art is a year-long course designed to build various motor and cognitive skills for individual students within an environment that promotes their safety and growth. Students will have ongoing opportunities to develop hand-eye coordination and will engage in sensory experiences through manipulation of various art mediums. Assignments ranging from 2D to 3D will center on fine motor skills while enhancing recall and retention skills.
Prerequisite: Students will not be able to request this course and will be placed through teacher recommendation only.

Functional Ceramic Art* — Course 3537

Gr. 9, 10, 11, 12 — **.5 Credit**

This is a one-semester course designed for students who are interested in exploring clay as a functional form of art. Functional art is the process of creating ceramic art that serves a specific purpose. Examples of functional art include clocks, lamps, cookie jars, and soap dispensers. Students will learn the various hand building techniques such as coil, slab and sculpting, as well as explore the process of slip casting molds. Mixed media such as metals and leather will be incorporated into the students' clay work to enrich his/her ceramic experience.

Hands-On Art* — Course 3535

Gr. 9, 10, 11, 12 — **.5 Credit**

Hands-On Art is a one semester course designed for students who are interested in exploring the art of 3D sculpture design. Students will be exposed to a variety of art projects that emphasize 3-dimensional sculpture and design using various mediums. Mediums that will be included, but not limited to clay, plexiglass, wire, wood and paper mâché. This class is designed for all levels of learning.

Business and Marketing Department

Accounting 1	Entrepreneurship*
CHS Financial Accounting	CHS Sports & Entertainment Management*
Intro to Business & Marketing Essentials*	International Business/Management*
Personal Finance*	Business Operations*
*Indicates that a course is a one-semester course (1/2 credit)	

Accounting 1 — Course 4000

Gr. 9, 10, 11, 12 — **1 Credit**

This course is a study of accounting principles and procedures with an emphasis on financial accounting. Students will learn accounting concepts using a manual system, but an automated accounting package is used to reinforce manual concepts. This course is highly recommended for students who intend to enter a university business administration program, such as accounting, management, finance, or marketing.

CHS Financial Accounting — Course 4005

Gr. 10, 11, 12 — **1 Credit**

Students will learn the principles of accounting theory and practice currently used in accounting information systems. Topics covered include accounting for service and merchandising business enterprises. The processes of analyzing, journalizing, and posting are covered in-depth, as well as adjusting accounts, preparing financial statements, and completing the accounting cycle. Deferrals, accruals, accounting for merchandise inventory, ethics and internal controls, cash and receivables are also covered. Three college credits and one high school credit will be awarded for successful completion.
Prerequisite: 70% or higher in Accounting 1 and teacher recommendation.

Intro to Business & Marketing Essentials* — Course 4010

Gr. 9, 10, 11, 12 — **.5 Credit**

If you are looking for an exciting course that tackles issues such as current business topics, e-commerce, the use of Web 2.0 and information technology in the business world, then this course is for you! Intro to Business and Marketing Essentials allows the students to discover how the American business economy operates and helps them prepare to make decisions as consumers, workers, and citizens. This course is also a study of the fundamental skills, principles, and knowledge in marketing, advertising, and merchandising activities. The marketing mix is explored, and these principles are applied to business simulations and projects where they participate in team building, competitive, decision-making activities. The principles and practices of contemporary advertising and public relations are taught. Students will explore these roles in the marketplace, the elements of a successful advertisement, advertising production, and tasks accomplished by media professionals. Other topics of study will include business communications, professional social networking, career research, and business etiquette. This course provides a strong business foundation for

students and allows them to discover if they are interested in further studying business. This is the keystone course which serves as the prerequisite for business courses.

Personal Finance* Course 4015

Gr. 9, 10, 11, 12 **.5 Credit**

This course prepares students to manage personal finances to make effective consumer decisions as well as satisfy Act 35- the Pennsylvania State graduation requirement starting with the Class of 2027, which requires completion of a Personal Finance Course. Students will learn to make wise spending, saving and credit decisions and effective use of income to achieve personal financial success. Students will explore and study personal applications of money management to understand financial opportunities affecting their daily lives, such as: setting financial goals, using money management strategies, selecting bank checking/savings accounts, protecting credit, filing tax returns, trading investments, renting property, purchasing of both a car and home, evaluating risk management and planning for retirement.

Entrepreneurship* Course 4017

Gr. 9, 10, 11, 12 **.5 Credit**

Have you ever dreamed of owning and operating your own business? Would you like to be the decision maker and the boss? In this one semester course, students learn the basics of business ownership starting with a concept and then developing that idea into an actual business plan. Some of the topics covered include forms of business ownership, site location, promoting the product or service and employee relations. Learn what it takes to become a successful entrepreneur. The success stories of Mark Zuckerberg (Facebook), Dave Thomas (Wendy's) and Jack Dorsey (Twitter) all began with an idea, a plan, and entrepreneurial expertise.
Prerequisite: Intro to Business & Marketing Essentials and teacher recommendation

CHS Sports and Entertainment Management* Course 4020

Gr. 10, 11, 12 **.5 Credit**

This course is a survey course that offers the student a look at the diverse and expanding field of sport, entertainment, and recreation. The basic areas of professional, educational, and commercial sport, and recreation and special events are surveyed, identifying the general structure and function of each. Emphasis is given as to what skills are necessary for the field and what career opportunities exist.
*The opportunity to earn three college credits and one-half high school credit can potentially be awarded for successful completion.
Prerequisite: Intro to Business & Marketing Essentials and teacher recommendation.

International Business* Course 4025

Gr. 9, 10, 11, 12 **.5 Credit**

No matter where your future interests lie, a solid foundation in business can help you reach your personal and career goals. Knowledge of business and how it operates empowers you to make better decisions for managing a business or for your own personal financial well-being. Students

will examine the problems and challenges of business operating in a global environment. Mergers and acquisitions, ethical issues, cultural differences, the securities marketing, and current trends in the workplace will be researched and investigated. This course is recommended for those who are planning to study business.
Prerequisite: Intro to Business & Marketing Essentials and teacher recommendation.

Business Operations — Course 4030

Gr. 10, 11, 12 — **.5 Credit**

In this project-based course offered to students in grades 10-12, Business Operations students will partner with Life Skills students to run a fully functional on-campus coffee shop. This unique partnership with Coffee Tree Roasters, a Pittsburgh-based coffee company, fosters inclusive peer mentorship while providing valuable real-world experiences in leadership, customer service, teamwork, and small business operations. By the end of the course, students will have gained a deeper understanding of both business and social responsibility, all within a supportive and inclusive environment.
Prerequisite: Intro to Business & Marketing Essentials and Entrepreneurship OR Intro to Business & Marketing Essentials and one of the following: Unified Sports Team Partner, Partners in PE, or Partners in Music

Computer Science Department

Java Programming 1*	Visual Basics 1*
Java Programming 2*	Visual Basics 2*
AP Computer Science Principles	CHS Microsoft Office Applications*
CHS Information Technology 1*	Web Page Design*
CHS Information Technology 2*	Cybersecurity Honors
*Indicates that a course is a one-semester course (½ credit)	

Java Programming 1* Course 4045

Gr. 9, 10, 11, 12 **.5 Credit**

This course is designed for the student who would like to continue his or her study of computer science by using the Java Programming Language. This programming language is widely used by colleges, industry, and on the AP Computer Science Exam. Java is also the basis for Android application development. This course is recommended for prospective computer science, mathematics, physics, and/or engineering students.
Prerequisite: 80% or higher in Algebra 1

Java Programming 2* Course 4050

Gr. 9, 10, 11, 12 **.5 Credit**

The Java Programming 2 course extends the study of the Java programming language. This class will include small and large programming projects using Java and the Greenfoot IDE. These projects will include several Java based games that require students to use their creativity, problem solving, mathematics, reverse engineering, and logic skills.
Prerequisite: 70% or higher in Java Programming 1 and teacher recommendation

AP Computer Science Principles Course 4053

Gr. 10, 11, 12 **1 Credit**

This is an advanced computing course focusing on computational thinking practices. The major areas of study in this course are organized around seven big ideas: creativity in computing, abstraction, data and information, algorithms, programming, the internet and global impacts of computing and cybersecurity. This course meets the requirements for preparation for the AP Computer Science Principles exam. Part of this exam will be completed as in-class performance tasks for which students submit digital artifacts to demonstrate the skills they have developed.
Prerequisite: 85% or higher in Algebra
Average time spent on homework per week: 5 hours

CHS Information Technology 1* Course 4055

Gr. 10, 11, 12 **.5 Credit**

This course provides the student with a view of hardware, operating systems, and applications as integrated systems. Fundamental concepts and constraints of computer architecture are presented. Specific examples of single-user and enterprise operating systems, e.g., Windows 10, Linux, and IBM mainframe z/OS, are used to illustrate the range of tasks that an operating system accomplishes. Programming languages, applications, application development,

compilation, and execution concepts are discussed. Distributive systems, storage area networks, and cloud architectures are introduced.
*The opportunity to earn three college credits and one-half high school credit can potentially be awarded for successful completion.

CHS Information Technology 2* Course 4060

Gr. 10, 11, 12 .5 Credit

This course provides the student with an understanding of computers and the impact of information technology on organizations and society. The complexity of designing effective information systems is discussed, and the student learns to compare, analyze, and evaluate information. Students will examine social, legal, and ethical issues involving privacy, intellectual property, health concerns, and accessibility. The course involves both an overview of technological concepts and student practice in solving typical information-related problems.
*The opportunity to earn three college credits and one-half high school credit can potentially be awarded for successful completion.

Visual Basic Programming 1* Course 4035

Gr. 9, 10, 11, 12 .5 Credit

This one-semester course is hands-on and designed to provide essential skills and experience with the development of computer apps. This course is an introductory programming course for beginners. Students in this course will explore and design business and personal apps on a variety of topics using the Visual Basic software. Problem solving, object-oriented programming and algorithm development skills will be used as students design, write code and debug programs. Students planning on pursuing a career in business, information technology, or computers should consider taking this course. It is also for those who are simply curious and interested about learning programming. No computer programming experience is necessary.

Visual Basic Programming 2* Course 4040

Gr. 9, 10, 11, 12 .5 Credit

Students will use Microsoft Visual Basic.net at an advanced level to develop and debug Windows applications. Diverse applications will be developed using decision structures, public functions, data arrangement with sub procedures, complex algebraic functions, error trapping and other various components.
Prerequisite: 70% or higher in Visual Basic I and teacher recommendation

CHS Microsoft Office Applications* Course 4080

Gr. 10, 11, 12 .5 Credit

In our technology-driven society, companies want computer-savvy employees. Students taking this one-semester course will utilize Microsoft Office skills to prepare them for college and the workplace. Students will create and format various professional documents, spreadsheets, publications, and slideshows using four components of the Microsoft Office suite: Excel, PowerPoint, Publisher and Word. This course is recommended for all students who want to enhance their computer software skills.

*Optional College Credit: Students in grades 10-12, with a minimum grade point average of 3.0, can apply for three college credits through La Roche University's Dual Enrollment Program. Students must earn a grade of 70% or higher to receive college credits

Web Page Design* Course 4085

Gr. 9, 10, 11, 12 .5 Credit

Are you interested in learning how to create your own website? This one-semester course will introduce students to the process of planning, creating, and maintaining eye-pleasing and content-rich websites for both professional and personal use. Adobe's Dreamweaver Creative Cloud will be the central program utilized in this class as students go from creating basic one-page websites to elaborate multi-page sites with all the bells and whistles! No webpage design skills are necessary, but students considering this course should be computer-savvy.

Cybersecurity Honors Course 4052

Gr. 10, 11, 12 1 Credit

This year long course is designed for the student who would like to continue his or her study of computer science by focusing on Cybersecurity. This course will lay the foundation for understanding cyber law and policy, Linux, networking technology basics, risk assessment, cryptography, and a variety of cybersecurity tools – all the essential knowledge and skills needed to begin a future in the cybersecurity workforce. Not only does this cybersecurity course introduce the breadth of cybersecurity concepts and skills to students, but it also prepares them to verify their technical know-how through the CompTIA Security+ Certification Exam. This professional exam is optional and must be scheduled and paid for by the student.
Prerequisite: Students must have earned an 80% or higher in Java 1, Visual Basic 1, or AP Computer Science Principles.

English Language Art Department

English 9	English 11 – College Prep
English 9 – Pre AP	English 11 – AP Language & Composition
English 10	English 12
English 10 – Pre AP	English 12 – AP Literature & Composition
English 11	

Students planning to participate in Division I, II, or III college athletics must ensure their academic studies align with NCAA standards. NCAA approved coursework can be found on page 11

English 9 Course 1000

Gr. 9 **1 Credit**

This literature-based course helps students develop a broad range of language skills including reading, writing, speaking, and listening. Students will read important literary selections in addition to short stories, non-fiction, and poetry. Composition and public speaking activities will integrate research skills, grammar and usage; vocabulary and reading comprehension will be emphasized. Students will be expected to complete a research project.

English 9 – Pre AP Course 1005

Gr. 9 **1 Credit**

This is a rigorous course for students planning to take the advanced English courses in High School. Students will work on developing and refining the skill of close reading of complex texts, identifying and valuing evidence and focusing on attention to language use. They will engage in analytical writing, effective speaking and communications, research skills and analysis and evaluation of a variety of literature genres. The course is designed to integrate reading, writing, language study, research and speaking and listening at an advanced level.
Prerequisite: Students are required to have 85% or higher in 8th grade ELA and teacher recommendation
Average time spent on homework per week: 2-3 hours

English 10 Course 1010

Gr. 10 **1 Credit**

This literature-based course extends the initial principles studied in English 9. Students will read important literary selections in addition to poetry, short stories, drama and novels. Composition and public speaking activities will integrate research skills, grammar and usage, vocabulary and reading comprehension will be emphasized.
Students are required to take the Keystone Exam upon completion of this course.
Prerequisite: English 9

English 10 – Pre AP — Course 1015

Gr. 10 — **1 Credit**

This rigorous course extends the initial principles studied in Pre-AP English 9. The course emphasizes critical reading, supported analysis and composition. Students will continue to develop their close reading and evidence analysis skills. They will engage in reading a variety of genres along with correlating literary techniques and theories to come to a deeper understanding of the texts. The course is designed to integrate reading, writing, language study, research and speaking and listening at an advanced level.
Students are required to take the Keystone Exam upon completion of this course.
Prerequisite: Students are required to have 85% or higher in English 9, or 80% or higher in Pre-AP English 9 and teacher recommendation.
Average time spent on homework per week: 2-3 hours

English 11 — Course 1020

Gr. 11 — **1 Credit**

This English class is designed for students to achieve grade-level performance in grammar and usage, writing, reading, literature and non-fiction and vocabulary usage. This course includes a chronological study of American Literature and its impact on American culture while honing personal literacy skills. Writing for the workplace, academic writing assignments, discussion and formal speaking assignments are required for this course.
Failure to complete Junior Career Project will result in repeating your 11th grade English class.

English 11 College Prep — Course 1025

Gr. 11 — **1 Credit**

This rigorous course is designed to prepare for college-bound juniors for college reading, writing and communication skills. Students will study grammar and usage, analytical research, writing, American literature and vocabulary to enhance academic literacy. This course is an in-depth study of American literature with emphasis placed on major authors, their works, and their unique contribution to American culture. Writing assignments, discussion, project-based, and critical and personal evaluations are an integral part of this course. This course will also include English based SAT preparation and implementation of the Junior Career Project.
Failure to complete Junior Career Project will result in repeating your 11th grade English class.

English 11 AP Language & Composition — Course 1032

Gr. 11 — **1 Credit**

This college-level composition course is designed to prepare 11th grade students for the AP Language and Composition exam and adheres to the standards set forth by the College Board. With a focus on rhetoric, students will analyze language as it is used in non-fiction argument and examine the relationships between rhetorical situation, claims and evidence, reasoning and organization and style. Students should be able to read and analyze complex texts (pre-20th century to modern). Understanding of rhetorical techniques is employed in their own composition to demonstrate critical thinking, synthesis and academic research skills

on various topics. The composition skills of each student should reflect an exemplary display of organization, control of language and grammatical mechanics. Reading and writing assignments will be of high rigor and volume. It is recommended that students who enroll in this course have a background that includes Pre-AP courses.
Failure to complete Junior Career Project will result in repeating your 11th grade English class.
Prerequisite: Students should have been in Pre AP English for two years and should have an A/B average in English 10 Pre-AP.
Average time spent on homework per week: 3-4 hours
*Students who enroll in the course may be required to complete assigned readying prior to the start of the school year.

English 12 — Course 1035

Gr. 12 — **1 Credit**

This course is designed as a continuation of English 11. Students will read selections of contemporary fiction, non-fiction and classic literature, as well as critically analyze film and documentary texts. It will further reinforce written and verbal communications skills; students will examine career and educational opportunities available in life after high school.
Prerequisite: English 11 or teacher recommendation

English 12 AP Literature & Composition — Course 1048

Gr. 12 — **1 Credit**

This is a college-level course designed to prepare students for the Advanced Placement Exam in English Literature and Composition. The focus of the course is on reading, analyzing, and writing about literature from various time periods. Students will read several novels, short fiction pieces, poetry, and dramas. Students engage in close reading and critical analysis of literature to deepen their understanding of the ways writers use language to provide both meaning and pleasure. As they read, students consider a work's structure, style and themes, as well as its use of figurative language, imagery and symbolism. Writing assignments include expository, analytical and argumentative essays that require students to analyze and interpret literary works. Class participation is extremely important, as much of the class time is devoted to interpretive discussion of the works studied and is a significant part of the student's grade.
Prerequisite: Students should have taken English 9 Pre AP and English 10 Pre AP and had an A/B average.
Average time spent on homework per week: 3-4 hours

Students not selecting English 12 or AP Literature must choose two of the following:
Number of classes for semester courses offered will be determined by student requests.

Contemporary Fiction & Literacy Theory*	Contemporary Non-Fiction*
Contemporary Issues*	Creative Non-Fiction Writing Workshop*
Poetry*	Modern Writing Lab*
Survey of British Literature*	Film as Literature*
Survey of World Literature*	Theatre and Dramatic Arts*
*Indicates that a course is a one-semester course (½ credit)	

Contemporary Fiction and Literacy Theory* — Course 1040

Gr. 12 — .5 Credit

Designed for the college-bound student, this course uses a literary analysis model approach to assist students with reading, analyzing, discussing, and writing about critically acclaimed works of fiction from the twentieth and twenty-first centuries. Students will explore various critical perspectives when reading and evaluating select works. Analytical writing and discussion skills are emphasized.

Contemporary Issues* — Course 1080

Gr. 12 — .5 Credit

In this course, students will develop deep knowledge of a current topic of their choice, while building 21st century research skills. This process will be structured around research, informational writing and argument, and will incorporate the use of technology to both gather information and present information. Students will spend the semester building literacy skills aligned with college and career expectations to produce writing for various audiences and purposes. Class participation, including debate, discussion, and weekly assignments are all requirements for success in this course.

Poetry* — Course 1041

Gr. 12 — .5 Credit

This course, designed for the college-bound student, will introduce the student to contemporary poetry as well as involving the student in a close study of the classics. Students will read and interpret multiple forms of poetry from several time periods. To better understand the unique genre of poetry, students will write their own poetry. Written analyses and research-based study of poetry will also be included in this course.

Survey of British Literature* — Course 1042

Gr. 12 — .5 Credit

In this fascinating survey course designed for the college-bound student, students will read, discuss, and analyze literature that traces the origins and development of the English language. Beginning their study with the popular epic Beowulf and Norse Mythology. Students will continue through to 21st century contemporary British literature (including drama, poetry and even

comedic British writing), students will be well prepared for post-secondary education through the completion of reading, writing, research and speaking skills based on British literature.

Survey of World Literature* Course 1043

Gr. 12 .5 Credit

Designed for the college-bound student, this survey course covers classic and contemporary literature from around the globe to broaden perspective and provide a historical context behind chosen works. Selections include mythology, drama, poetry, short stories, a novella, essays, and speeches. Students will prepare for post-secondary education through the completion of reading, writing, speaking, listening, and research based on literature selections. Classic and contemporary selections may be paired.

Theatre and Dramatic Arts* Course 1045

Gr. 12 .5 Credit

Designed for the college-bound student, this course focuses on an analytical reading of several popular contemporary and famous historical plays and includes 1-2 field trips: one to the City Theater's Playwriting Competition or one to a theatre production, if available. Many various works will be studied using a hands-on, active participation approach, where the students will read, interpret, evaluate and act out various parts. Also, focusing on various genres, students will study structure, theme, character motivation, tone, and symbolism. Students will be encouraged to try their hand at writing scenes and will be encouraged to submit a one-act play to the City Theatre's playwriting competition.

Contemporary Nonfiction* Course 1046

Gr. 12 .5 Credit

This course provides a survey of contemporary non-fiction designed to intrigue, teach, motivate, and inspire its readers to enhanced awareness of self and society. Students analyze the work of modern authors whose writing encompasses commentary, psychological study, science-medical writing, a feature article, personal essay and memoir. In learning to understand and analyze non-fiction, students will develop critical reading and literary study skills for use in other literature courses at the high school or college level. Analytical skills are emphasized.

Creative Nonfiction Writing Workshop* Course 1047

Gr. 12 .5 Credit

This course will concentrate on writing two principle types of creative nonfiction: 1) that which seeks to represent the personal experience of the author (diary, memoir, travel writing, meditative essays, cultural criticism) and 2) that which seeks to document the experience of others (nature writing, historical narratives, podcasts, profiles). Coursework will include a mixture of reading discussions, drafting workshops, critical analysis of other's writing, style and editing exercises and peer reviews. Goals of the course are to gain a greater understanding of creative non-fiction, sharpen writing and reading skills and create a supportive, critically engaged space for the creation, discussion and publishing of student works.

Modern Writing Lab — Course 1039

Gr. 12 — **.5 Credit**

Formerly known as Writing Beyond the Classroom, this course builds essential speaking and writing skills for the AI-augmented workplace. It focuses on effective AI prompting, critical evaluation of AI output, and the ethical use of AI in professional communication. Students complete varied assessments – including grammar and proofreading, professional emails and argumentation, presentations, responsible AI-assisted drafting, and professional portfolio development – to gain practical, workplace-read abilities.

Film as Literature* — Course 1044

Gr. 12 — **.5 Credit**

In this senior English class, students will examine story elements as well as cinematic techniques and analyze their application to film. An introduction to film vocabulary, genre characteristics and film history will be included in the course. Students will view both classic and contemporary films and engage in a variety of written and research-based projects as well as discussion. Hands-on film projects are also a part of the course. Students will ultimately work to develop sophisticated analysis and an engaging writing style in response to film.

English Language Arts Electives

Communications & Public Speaking*	Photo Journalism 2/3
Multimedia Journalism 1	Photo Journalism 4
Print Journalism 2/3	TV Studio & Media Production 1
Print Journalism 4	TV Studio & Media Production 2/3
Keystone Literature Remediation	MAHS – TV*
*Indicates that a course is a one-semester course (½ credit)	

Communication and Public Speaking* — Course 1050

Gr. 9, 10, 11, 12 — **.5 Credit**

This is a one-semester elective course designed to help students who desire to improve their communication skills including listening, speaking and body language. Students will analyze their audience prior to speaking on many different topics including toasts, eulogies, speeches of introduction, Pecha Kucha talks, poetry readings and persuasive speeches. Students will also engage in lively, prepared debates and work with the television studio as talent utilizing the teleprompter. This is a fun-filled, hands-on class with a safe and happy atmosphere.

Multimedia Journalism 1 — Course 1055

Gr. 9, 10, 11, 12 — **1 Credit**

This course is a one-credit elective that meets for the entire year and provides students with a basic overview of the fundamentals of journalism in the digital age. Students will study general news gathering and reporting, journalistic style and editing, law and ethics and properties of layout and design. This course is recommended for students who are interested in a career in

journalism, broadcasting, or communications. It is also a prerequisite for students to be on the newspaper or yearbook staff. Students should have a sincere interest in writing and a willingness to work cooperatively with others.

Print Journalism 2/3 — Course 1060

Gr. 10, 11, 12 — **1 Credit**

In this one-credit elective, students explore the tenets and skills of modern journalism through the management and publication of the student online newspaper site, *MoonBeams Media*. Students will become broadly engaged in all aspects of scholastic newspaper production in a workshop-based setting. Students should be comfortable with writing and researching independently, conducting face-to-face interviews, and seeing their writing through multiple revisions as part of the writing and publishing process. Interest and previous experience in journalistic writing, podcasting, and photography are encouraged, but not required. Exemplary student writings are submitted for local and national recognition in the field of student journalism. Students will gain practical experience in the various skills involved in working in the print media field, including interviewing, researching, and photography. After introductory lessons, students will work independently to complete projects in which they create authentic newspaper stories that may be used in the online newspaper site. Students should commit to working outside the regular school day to cover news stories and complete projects.
Prerequisite: Multimedia Journalism I and teacher recommendation

Print Journalism 4 — Course 1060

Gr. 12 — **1 Credit**

This elective is for seniors who have dedicated themselves to the production of the school newspaper. Seniors will be expected to assume leadership roles as they continue to learn and apply print journalism knowledge and skills at the highest levels of scholastic newspaper production.
Prerequisites: Multimedia Journalism 1, Print Journalism 2 and 3, or teacher recommendation

Photo Journalism 2/3 — Course 1070

Gr. 10, 11 — **1 Credit**

This one-credit elective is where students will continue to learn and apply the knowledge and skill required to produce the time capsule that is our traditional high school yearbook, *The Flame*. Students are responsible for every piece of content, from graphic design and layout to photography and text. The course will teach the fundamentals of producing a yearbook (including but not limited to) layout, design, advertising, budgeting, teamwork, and creative reporting. Students will be responsible for specific assignments and must be able to meet deadlines. The course will expand and sharpen students' knowledge, skills, and aptitudes for producing a high school yearbook. Students should commit to working outside the regular school day to cover news stories and complete projects.
Prerequisite: Multimedia Journalism I and teacher recommendation

Photo Journalism 4 — Course 1070

Gr. 12 — 1 Credit

This one-credit elective course is for seniors who have dedicated themselves to the production of the school yearbook. Students will be expected to assume leadership roles as they continue to learn and apply photo-journalism knowledge and skills at the highest levels of scholastic yearbook production. Students must commit to working outside the regular school day to cover events and activities and complete projects.
Prerequisite: Photo Journalism II/III and teacher recommendation

Television Studio and Media Production 1 — Course 4531

Gr. 9, 10, 11, 12 — 1 Credit

Discover the fundamentals of television studio and media production in Television Studio & Media Production 1, where you'll learn about the building blocks of filmmaking and storytelling. In this course, students learn to operate professional television studio equipment and will develop, examine, and practice approaches to all phases of production through writing, shooting, and editing a variety of video productions and short film style projects. This course covers the basics of camera operation, shot composition, and video editing, giving you the skills to create your first projects. Students will work on short assignments, like commercials and simple narratives, to understand how to plan, shoot, and edit effective videos. The focus is on exploring creativity while mastering essential techniques, preparing you to move on to more advanced work. Whether you're new to television studio and media production or looking to sharpen your skills, this course sets the stage for deeper exploration in Television Studio & Media Production 2/3. Assessments will include projects and portfolio pieces. Content created in this course may be published on the school online multimedia platform, *MoonBeams Media*. Students in this course must be highly motivated, attentive, and willing to accept challenges.

Television Studio and Media Production 2/3 — Course 4532

Gr. 10, 11, 12 — 1 Credit

This course is open to students who have successfully completed Television Studio and Media Production 1. This workshop-based course will provide students with the opportunity to concentrate in an advanced media communication skills area of their choosing, including news reporting, publication layout and design, video news formatting, advertising and social media, producing, editing a wide variety of programs, and will be required to operate student production equipment, develop new skills, while refining the skills gained from Television Studio & Media Production 1. Students will also be assigned to school-related medica productions by their instructor, including after school events. Students in this course must be organized, highly. Motivated, and ready to accept new challenges. Students will work independently to complete projects and will be challenged to students to refine their vision, think critically about storytelling, and produce content that leaves a lasting impression. Content created in this course may be published on the school online multimedia platform, *MoonBeams Media.* Students must commit to working outside the regular school day to cover events and activities and complete

projects.
Prerequisite: Television Studio & Media Production I and teacher recommendation

MAHS – TV* Course 4533

Gr. 9, 10, 11, 12 **.5 Credit**

The main focus of this semester class will be the production of the morning news show. Students will have the opportunity to learn about the workings of a TV broadcast control room, as well as write, graphically design, shoot, and organize the creation of daily productions and other school related programs. Students will take on roles such as directors, producers, scriptwriters, and on-air talent, collaborating to plan, produce, and deliver engaging daily broadcasts. This is a hands-on participation class where students should be comfortable with working in front of and behind the television camera. You'll have the freedom to put your own unique spin on the morning announcements, shaping them to reflect your vision and creativity. This course emphasizes dynamic teamwork, problem-solving, and creative storytelling, giving students the chance to turn ideas into polished productions while meeting real deadlines. Multimedia content created in this course may be published on the school online multimedia platform, *MoonBeams Media*.

Keystone Literature Remediation Course 1090

Gr. 11, 12 **1 Credit**

Course 1085 .5 Credit

This elective course provides targeted review of essential Literature skills for students who have not scored Proficient or Advanced on the Literature Keystone Exam. Students will strengthen reading comprehension, analysis of fiction and nonfiction texts, and Keystone-aligned test-taking strategies to improve performance on the upcoming assessment.
Prerequisite: Students will not be able to request this course but will be enrolled via teacher recommendation and administrative placement.

Family and Consumer Science Department

Personal Nutrition and Wellness*	Child Development 1
Exploration of Cooking and Nutrition*	Advanced Child Development
Mastery of Cooking*	Lifetime Readiness*
The Art of Baking*	
*Indicates that a course is a one-semester course (½ credit)	

Personal Nutrition and Wellness* Course 4535

Gr. 9, 10, 11, 12 **.5 Credit**

This is a one-semester course that utilizes nutrition and meal management principles to create healthy and balanced meals. The emphasis in this course will be to balance nutrients which contribute to personal wellness as well as examining personal eating habits and exercise routines to become overall healthier teens. This course will provide students with the opportunity to participate in labs and demonstrations as well as to develop personal goals, analyze personal decisions, and modify recipes to create a happier, healthier lifestyle. Topics will include nutrients, eating disorders, weight control, grains, fruits, vegetables, etiquette, meal planning, fad diets, eating out nutritiously, budgeting, and nutrition-oriented diseases when time permits. Students will learn basic concepts of cooking and utilize techniques to prepare a variety of dishes that will peak their culinary curiosity while honing tangible life skills. While students do cook, the instructional focus will be lecture and discussion.

Exploration of Cooking and Nutrition* Course 4536

Gr. 9, 10, 11, 12 **.5 Credit**

This is a one-semester course that introduces basic food preparation principles while focusing on healthy food choices. Students will learn common skills that will include measuring, kitchen tools and equipment, safety and sanitation, and cooking terms while identifying how to use objectives presented to complete various foods labs. Key concepts will include My Plate, protein foods, dairy, eggs, sandwiches, salads, knife skills, event planning, and budgeting breakfast foods. Students will be exposed to lessons which can be applied into their daily lives. This course is good for any novice cook that wants to learn the basics of food preparation, while maintaining an educational environment. While students do cook, the instructional focus will be lecture and discussion.

Mastery of Cooking* Course 4540

Gr. 9, 10, 11, 12 **.5 Credit**

This is a one-semester course that focuses on advanced cooking techniques and recipes while exploring worldly cultures and customs. Students will start by creating a strong foundation of basic cooking skills and build upon them throughout the semester. Students will have the opportunity to master new cooking methods, understand the importance of food appearance, and learn the importance of budgeting. Students will also discover the cultures of foreign lands while grasping the complexities of their cuisines through detailed lessons and hands on labs.

The Art of Baking* Course 4545

Gr. 9, 10, 11, 12 .5 Credit

This is a one-semester course that focuses on the fundamentals and science involved in the making of quick and yeast breads, pies, pastries, cakes, cake decorating, and seasonal items. Students will explore the lost art of baking from scratch. The focus on this course will be for students to analyze how to bake on a budget and to limit preservatives used. Emphasis will be placed on the functions of ingredients, the science involved with baking, the importance of accurate measuring, and baking terminology. This course is designed to strengthen communication, organizational, teamwork, and conversational skills as well as teach the students how to make healthy substitutions where available as they become expert bakers. The emphasis of this class is in lab experience and constructive critiques, and not as much on lecture and discussion.

Child Development 1 Course 4550

Gr. 9, 10, 11, 12 1 Credit

This is a full year, one-credit class offered to 9th-12th grade students. This course emphasizes parenting skills and child development from conception to school age. This is an excellent course for all students preparing for the most important role that they may ever have in life – that of being a parent. During the first semester, this course will cover the physical, social, emotional, and intellectual development of infants, toddlers, and preschoolers. The first semester will also include the study of the different areas of child development, parenting skills, and caring for children. The second semester will offer practical experience in teaching and observing actual three to five-year-old children from the Moon/Crescent community in a fourteen-week pre-school laboratory that is located here on the school premises. The high school students will plan and execute developmentally appropriate learning experiences for pre-school children and will observe the stages of development in children. This course is designed to greatly benefit both the high school students and the preschool children enrolled in our program.

Advanced Child Development Course 4555

Gr. 10, 11, 12 1 Credit

This is a full year, one credit class offered to 10-12th grade students. This is an excellent course for all students preparing for the most important role that they may ever have in life – that of being a parent. This advanced course is designed for students interested in extensive hands-on experience with children and a possible career working with children. Students in this class will accumulate practical experiences in teaching and observing actual three to five-year-old children from the Moon/Crescent community in a full year preschool laboratory that is located here on the school premises. The high school students will plan and execute developmentally appropriate learning experiences for the preschool children and observe the stages of development in children. Students in this advanced course will also be responsible for the maintenance of the preschool classroom including bulletin boards, calendars, prop boxes, etc. Advanced Child Development students will have more responsibilities in the day-to-day management of the preschool lab and will design developmentally appropriate games to be

used by the preschool children.
Prerequisite: 70% or higher in Child Development 1 and teacher recommendation

Lifetime Readiness* Course 4560

Gr. 9, 10, 11, 12 .5 Credit

A one semester course that will prepare the students to adapt to living post-graduation. The course will explore cooking and other household tasks that will improve fine motor, social, and mathematical skills, while creating a real-life environment and setting for students to prepare for real world situations. Students will work on measuring ingredients, budgeting, safety, and sanitation practices while working both individually and in group settings to prepare simple recipes.
Prerequisite: Students will not be able to request this course, and will be placed through teacher recommendation only

Mathematics Department

Algebra 1	Trigonometry/Pre-Calculus – Honors
Core Geometry	Calculus
Geometry	AP Calculus AB
Geometry – Honors	AP Calculus BC
Algebra 2	AP/CHS Basic Applied Statistics
Algebra 2 – Honors	Math with Business Applications
Algebra 2A	Math Lab
Algebra 2B	Keystone Algebra 1 Remediation
Trigonometry/Pre-Calculus	

Students planning to participate in Division I, II, or III college athletics must ensure their academic studies align with NCAA standards. NCAA approved coursework can be found on page 11

Algebra 1 — Course 2005

Gr. 9, 10 — **1 Credit**

This year long course focuses on linear and quadratic relationships. The linear portion will emphasize the algebraic manipulation of linear expressions, equations, and inequalities. Students will also solve systems of linear equations, represent linear equations and inequalities, and graph linear functions. The quadratic portion will emphasize quadratic and exponential expressions, equations, and relationships. Students are required to take the Keystone Exam upon completion of this course.
TI-84+ calculators are used and will be provided by the teacher for classwork.
Prerequisite: Teacher recommendation

Core Geometry — Course 2010

Gr. 10, 11 — **1 Credit**

Core Geometry is a standards-based course with some proofs. Topics covered in this course are parallel and perpendicular lines, the congruence, similarity, and transformation of triangles, circles, and three-dimensional figures, right triangle trigonometry, and applications of probability. Fundamental geometric topics such as perimeter, area, volume, and density will also be covered. Students will learn to model real-world situations and apply geometric theorems to solve problems arising from those situations. Activities include group work, lecture, exploration, and problem solving.
TI-84+ calculators are used and will be provided by the teacher for classwork.
Prerequisite: 60% or higher in Algebra 1 and a teacher recommendation

Geometry — Course 2015

Gr. 9, 10 — **1 Credit**

Geometry is a standards-based course with an emphasis on written and coordinate proof. Topics covered in this course are parallel and perpendicular lines, the congruence, similarity, and transformation of triangles, points of concurrency, geometric constructions, and right triangle

trigonometry. Fundamental geometric topics such as perimeter, area, and volume will also be covered. Students will learn to model real-world situations and apply geometric theorems to solve problems arising from those situations. Activities include group work, lecture, exploration, and problem solving.
TI-84+ calculators are used occasionally and will be provided by the teacher for classwork.
Prerequisite: 70% or higher in 8th grade Algebra 1, a 'Proficient' on the Algebra 1 Keystone and a teacher recommendation; or 70% or higher in 9th grade Algebra 1 and a teacher recommendation

Geometry – Honors — Course 2020

Gr. 9 — **1 Credit**

Honors Geometry is a standards-based course with an emphasis on written and coordinate proof. Topics covered in this course are parallel and perpendicular lines, the congruence, similarity, and transformation of triangles, points of concurrency, geometric constructions, and right triangle trigonometry. Fundamental geometric topics such as perimeter, area and volume will also be covered. Students will learn to model real-world situations and apply geometric theorems to solve problems arising from those situations. Activities include group work, lecture, exploration, and problem solving. Because honors courses require mathematical understanding that is deeper and more complex than the core curriculum, students are expected to respond at an advanced level, work at a faster pace, and spend more time on exploration and enrichment topics.
Students are required to have a TI-84+ calculator for this course.
Prerequisite: 90% in Algebra 1 and a teacher recommendation
Average time spent on homework per week: 5 hours

Algebra 2 — Course 2025

Gr. 9, 10, 11, 12 — **1 Credit**

This course is intended for those students who have successfully completed Geometry. The content of Algebra 2 is organized around families of functions, including linear, quadratic, and radical and rational functions. Students will learn to represent each function in multiple ways – as verbal descriptions, equations, tables, and graphs. Topics such as probability, data analysis, statistics, and basic trigonometry will also be covered.
TI-84+ calculators are occasionally used and will be provided by the teacher for classwork.
Prerequisite: 60% or higher in Geometry and a teacher recommendation
(Advanced students entering 9th grade must have earned an 80% or higher)

Algebra 2 – Honors — Course 2030

Gr. 9, 10, 11, 12 — **1 Credit**

This is the third course in the honors sequence of mathematics and is designed for the students who have completed Geometry Honors with a grade of "B" or better. The content of Algebra 2 is organized around families of functions, including linear, quadratic, exponential, logarithmic, and radical and rational functions. Students will learn to represent each function in multiple ways – as verbal descriptions, equations, tables, and graphs. Topics such as probability, data analysis, statistics, and basic trigonometry will also be covered. Each section in this honors course will be

extended to cover a more complex array of material.
Students are required to have a TI-83+ orTI-84+ calculator for this course.
Prerequisite: 80% or higher in Geometry Honors and teacher recommendation; 95% or higher in Academic Geometry and teacher recommendation. (Advanced students entering 9th grade must have earned a 90% or higher)
Average time spent on homework per week: 5 hours

Algebra 2A — Course 2035

Gr. 10, 11, 12 — **1 Credit**

This course is intended for students who have successfully completed Core Geometry. This is the first of a series of two classes that combined will cover most of the Algebra 2 concepts over two years. It is designed to provide more Algebra skill development while continuing to work on more advanced mathematics skills. TI-84+ calculators are used and will be provided by the teacher for classwork.
Prerequisite: 60% or higher in Core Geometry and teacher recommendation

Algebra 2B — Course 2040

Gr. 11, 12 — **1 Credit**

This course is intended for students who have successfully completed Algebra 2A. This is the second of a series of two classes that combined will cover most of the Algebra 2 concepts over two years. This course will provide more Algebra skill development. By the end of this course, you will have covered most Algebra 2 topics. TI-84+ calculators are used and will be provided by the teacher for classwork.
Prerequisite: 70% or higher in Algebra 2A and teacher recommendation

Trigonometry/Pre-Calculus — Course 2050

Gr. 10, 11, 12 — **1 Credit**

This course is designed to prepare students for work in calculus. In the first semester, students will study Trigonometry from the circular and right triangle perspective. The second semester will focus on Pre-Calculus skills, specifically algebraic concepts and analysis of functions. TI-84+ calculators are occasionally used and will be provided by the teacher for classwork, although it would be beneficial for students to have their own.
Prerequisite: 70% or higher in Algebra 2 and teacher recommendation

Trigonometry/Pre-Calculus – Honors — Course 2055

Gr. 10, 11, 12 — **1 Credit**

This is a rigorous math course geared for the accelerated math student. It moves at a fast pace and requires a strong background in Geometry and Algebra. In the first semester students will study Trigonometry from the circular and right triangle perspective. The second semester will work on Pre-Calculus skills. Here the focus will be on algebraic concepts, analysis of functions, and conic sections. This is an honors course meant to prepare students for Advanced Placement Calculus AB. TI-84+ calculators are used and will be provided by the teacher for classwork,

however, it would be beneficial for students to have their own.
Prerequisite: 80% or higher in Honors Geometry AND an 80% or higher in Honors Algebra 2 along with a teacher recommendation.
Average time spent on homework per week: 6-7 hours

Calculus — Course 2060

Gr. 11, 12 — **1 Credit**

This course is an introduction to fundamental calculus. It covers limit of functions, differentiation, application of differentiation and integration.
TI-84+ calculators are rarely used and will be provided by the teacher for classwork when necessary.
Prerequisite: 70% or higher in Trig/Pre-Calc and a teacher recommendation

AP Calculus AB — Course 2065

Gr. 11, 12 — **1 Credit**

This course in sequence with Honors Trig/Pre-Calculus will enable the student to take the AP exam (AB) for college credit and/or placement. Because of the rigor and fast pace, only those students with a high level of achievement in previous math courses and the recommendation of the Honors Trig/Pre-Calculus math teacher will be accepted. Students from Calculus may enroll with teacher recommendation. This course will cover elementary functions, limits, derivatives of algebraic and transcendental functions, and basic integration with some application to area and volume.
Prerequisite: 80% or higher in ALL previous honors math courses and teacher recommendation
Average time spent on homework per week: 8-10 hours

AP Calculus BC — Course 2070

Gr. 11, 12 — **1 Credit**

This course in sequence with AP Calculus AB will enable the student to take the AP exam (level BC) for college credit and/or placement. Because of the rigor and fast pace, only those students with the highest level of achievement in previous math courses and the recommendation of the previous year math teacher will be accepted. This course will cover elementary vector, parametric, and polar functions and rigorous definitions of limits, derivatives of algebraic, transcendental, and vector, parametric and polar functions, integration involving area, volume, trigonometric substitution, integration by parts, and by partial fractions, as well as sequences and series.
Teacher will issue the TI-Nspire to each student at the start of the year.
Prerequisite: 70% or better in Calculus AB

AP/CHS - Basic Statistics — Course 2080

Gr. 11, 12 — **1 Credit**

This course teaches methods and terminology of descriptive and inferential statistics. Students who complete this course will be able to conduct their own analyses of standard one-sample or two-sample data sets, follow statistical reasoning and read statistical reports with understanding.

Topics include data collection and description, data production, hypothesis testing, correlation and regression, the analysis of variance and contingency tables (chi square). Four college credits and one high school credit will be awarded for successful completion. Students are required to have any version of a TI-84+ calculator for this course.
Prerequisite: 80% or higher in Algebra 2; 70% or higher in Trig/PC, and teacher recommendation
*University of Pittsburgh's Course STAT0200 is offered and provides an opportunity for our students to earn college credit for course work taken in high school. Most colleges and universities in the nation will honor successful completion of these courses and award credit. There is a tuition charge of approximately $300.00. This course is available for juniors and seniors.
*Students enrolled in this class are expected to take the AP exam or enroll in the CHS class through the University of Pittsburgh. If a student chooses not to take the AP exam OR does not enroll in the CHS class through the University of Pittsburgh, the student will not earn the additional weight for the class.
Average time spent on homework per week: 3 hours

Mathematics with Business Applications — Course 2085

Gr. 12 — **1 Credit**

This course teaches applications of mathematical concepts related to personal and business finance. Topics included in this course are: savings, investing, the dangers of debt, consumer awareness, budgeting, careers and employment taxes, insurance, real estate and mortgages. This course is designed for students who are interested in learning how to successfully manage their money and build wealth.
A scientific calculator is required for this course and will be provided by the teacher for class work.
Prerequisite: Teacher Recommendation.

Math Lab — Course 2090

Gr. 9, 10, 11, 12 — **1 Credit**

This year long course is designed to strengthen Algebra and Computation skills, providing additional preparation for Algebra 1. Students will be recommended for this course based on teachers' observations of their performance in class and on assessments, as well as their scores on previously taken Keystone & PSSA Assessments.
Prerequisite: Students will not be able to request this course but will be enrolled via teacher recommendation and administrative placement.

Keystone Algebra 1 Remediation

Course 2092

Gr. 10, 11, 12

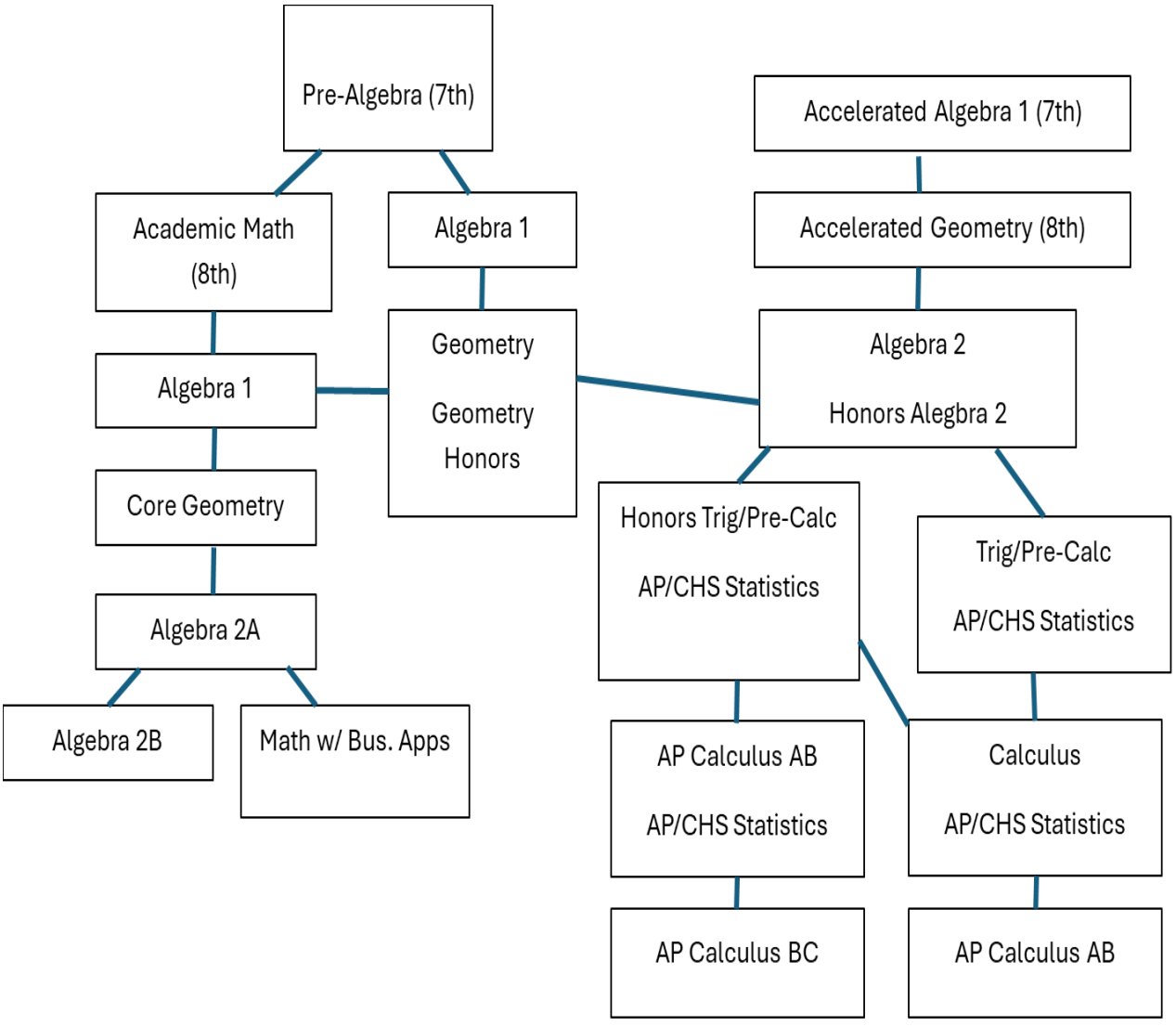
1 Credit

Course 2091 .5 Credit

This elective course provides targeted review of essential Algebra 1 skills for students who have not scored Proficient or Advanced on the Algebra 1 Keystone Exam. Students will strengthen foundational algebra concepts and practice Keystone-aligned problem-solving to improve performance on the upcoming assessment.

Prerequisite: Students will not be able to request this course but will be enrolled via teacher recommendation and administrative placement.

Math Sequence Chart



Music Department

Brass, Woodwind, Concert Band	Chamber String Ensemble – Honors
Symphonic Band – Honors	Music Technology*
Concert Band	Comprehensive Musicianship
Percussion Ensemble	Concert Choir
Percussion Ensemble – Honors	Honors Choir
String Ensemble	Partners in Music*
*Indicates that a course is a one-semester course (½ credit)	

Brass Class — Course 3560

Gr. 9, 10, 11, 12 — **1 Credit**

This year long, one-credit course deals with the development of the brass section of the concert band. Instruments in this class include trumpet, French horn, trombone, euphonium/baritone horn, and tuba. Students will learn intermediate and advanced brass techniques as well as musicianship skills. Activities include school and community concerts, varsity football games, band festivals/competitions, and parades. All students electing this course will participate in all facets of the high school's marching band. All freshmen brass students not in Symphonic Band will elect this course.

Prerequisite: Participation in the Middle School Band or by audition

Woodwind Class — Course 3561

Gr. 9, 10, 11, 12 — **1 Credit**

This year long, one credit, course deals with the development of the woodwind section of the concert band. Instruments in this class include flute, oboe, clarinet, bassoon, and saxophone (alto, tenor, and baritone). Students will learn intermediate and advanced woodwind techniques as well as musicianship skills. Activities include school and community concerts, varsity football games, band festivals/competitions, and parades. All students electing this course will participate in all facets of the high school's marching band. All freshman woodwind students not in Symphonic Band will elect this course.

Prerequisite: Participation in the Middle School Band or by audition

Symphonic Band Honors — Course 3570

Gr. 9, 10, 11, 12 — **1 Credit**

This select group of musicians will perform and study intermediate to advanced band literature, as well-written and non-written music theory assignments. All students wishing to perform in this ensemble must do so by audition only which will occur in March/April of the proceeding school year. Audition criteria will be based upon standard PMEA Solo/Ensemble Judging Rubrics. Activities include school and community concerts, PMEA/MENC Concert Band Adjudications, all marching band activities such as football games and parades, and after-school rehearsals, both Concert and Marching Band. Students will be required to practice and prepare musical selections independently. All students electing this course will be members of the school's marching band. Additional concert attire may need to be purchased for this class. This is a year-

long, honors credit course.
Prerequisite: By audition only
Average time spent on homework per week: 2.5 hours

Concert Band — Course 3565

Gr. 9, 10, 11, 12 — **1 Credit**

This year long course is for band students who seek an alternative to participation in marching band. Students will study music theory concepts and will learn how to integrate and apply those concepts in their repertoire. Students will learn intermediate and advanced woodwind, brass, and percussion techniques. Students will be expected to engage in scheduled rehearsals and performance opportunities, which occur beyond the normal school day and on weekends. Activities include rehearsals, school, and community concerts.

Percussion Ensemble — Course 3575

Gr. 9, 10, 11, 12 — **1 Credit**

This year long, one-credit course provides interested students with experience in the percussion idiom. This class will serve as the percussion section for the Concert Band and Marching Band. Placement auditions for Marching Band and those interested in Honors Percussion/Symphonic Band take place in late April/May. Audition criteria will be based upon the standard Marching Band/ Concert Band placement rubric passed out before the audition. Activities include percussion ensemble concerts, school and community concerts, varsity football games, band festivals and parades. All students electing this course will participate in all facets of the high school's marching band. All percussionists must take this course.
Prerequisite: Participation in Middle School Band or by audition

Percussion Ensemble - Honors — Course 3576

Gr. 9, 10, 11, 12 — **1 Credit**

This select group of musicians will perform and study intermediate to advanced band and percussion literature, as well as written and non-written music theory assignments. Percussionists in this ensemble perform primarily with the High School Symphonic Band, and have opportunities to play with many other ensembles at the high school requiring percussion. All students wishing to perform in this ensemble must do so by audition only. Audition criteria will be based upon the standard Marching Band/Concert Band placement rubric in late April/May. Activities include school and community concerts, percussion ensemble concerts, PMEA/MENC Concert Band Adjudications, all marching band activities such as football games and parades, after-school rehearsals, and both concert and marching band. Students will be required to practice and prepare musical selections independently. All students electing this course will be member of the school's marching band. Additional concert attire may need to be purchased for this class. This is a year-long, honors credit course.
Prerequisite: By audition only
Average time spent on homework per week: 2.5 hours

String Ensemble — Course 3580

Gr. 9, 10, 11, 12 — **1 Credit**

This year long, one-credit course provides strings (violin, viola, cello, and bass) students with a variety of musical experiences designed to improve their technical playing proficiency as well as their musicianship skills. Students will have the opportunities to play age/skill level appropriate orchestral literature at the highest possible standard. Students will develop advanced playing skills and advanced bowing techniques. Outside of the school day, students may elect to participate in festival competition and/or various other outings related to the goals of the class. Activities include school and community concerts and rehearsals, which may occur beyond the normal school day and on weekends. Additional concert attire may need to be purchased for this class.

Chamber String Ensemble – Honors — Course 3581

Gr. 9, 10, 11, 12 — **1 Credit**

This year long honors course is designed for students interested in performing and studying advanced orchestral literature. Entrance into this string ensemble will be by audition only and will be held in March/April of the preceding school year. Audition criteria will be based upon standard PMEA Solo/Ensemble Judging Rubrics. Students will learn and perform a variety of styles of music at an accelerated pace. The Honors Chamber String students will also be required to participate in the MAHS String Orchestra. These students will be responsible for learning a great deal of the MAHS String Orchestra music individually and will also be the foundation of the MAHS String Ensemble. They will be looked upon as mentors to the younger, less experienced members, and therefore will have the opportunity to be promoted to leadership roles within the MAHS String Ensemble. Activities will include community concerts, PMEA/MENC Orchestra Ensemble Adjudications, all MAHS String Ensemble activities, and after school rehearsals. Additional concert attire may need to be purchased for this class.
Prerequisite: By audition only
Average time spent on homework per week: 2.5 hours

Music Technology* — Course 3582

Gr. 9, 10, 11, 12 — **.5 Credit**

This hands on, one semester course introduces the theory and fundamentals of using software and hardware for producing and creating music. Topics to be included are multi-track recording, microphones, MIDI, music notation software, digital music editing, and digital audio workstations. Students in MAHS grades 9-12 are eligible to enroll in this class, regardless of musical experience.

Comprehensive Musicianship — Course 3583

Gr. 9, 10, 11, 12 — **1 Credit**

This year long course will include the study of music theory, music history, music aural skill, two-handed piano performance, and the study of music technology. Students will be required to play piano daily, sing, notate music, and manipulate the appropriate music technology programs to complete assignments. Technology programs may include but not limited to PreSonus Studio

One, Finale 25, Garage Band, and Logic Prox X. Comprehensive Musicianship is designed to combine music technology and the study of music theory.

Concert Choir — Course 3589

Gr. 9, 10, 11, 12 — **1 Credit**

The focus of this year-long, one-credit course will be students learning to develop their vocal music skills daily through emphasis on healthy vocal technique. The development of aural skills will include sight reading and music theory. These skills will be integrated into rehearsal and applied to the performance of quality choral repertoire of varied genre. Members of Concert Choir are required to participate in two (2) annual concerts and two (2) dress rehearsals in addition to other performance opportunities that may occur beyond the school day timeline. Members of Concert Choir are encouraged to audition for Vocality, a SATB ensemble that specializes in vocal jazz and a Capella repertoire. Concert Choir members can also audition for Bel Canto, an SSA women's ensemble and the Moon Area Tenor/Bass Ensemble Bro Canto. These two ensembles rehearse after school once a week and have additional performance opportunities.

Honors Choir — Course 3590

Gr. 10, 11, 12 — **1 Credit**

This year-long course is designed for students who possess exceptional skill in vocal music and the determination to learn at an advanced pace. Students who desire to perform in Honors Choir must audition in the spring of the previous school year. An audition criterion includes demonstration of developed vocal technique, music reading skills and a commitment to exceptional ensemble singing. The audition rubric will be based on standard vocal skill rubrics as used by PMEA. Students will study and perform a wide range of intermediate and advanced choral literature at accelerated pace. Aural skill development, music theory, and sight-reading skills will be incorporated into the class. Students are expected to practice and prepare musical selections through IP (Individual Practice) and in daily full ensemble rehearsals. Individual and quartet singing assessments and will be part of quarterly grades. Performances include school and community concerts, PMEA sponsored events and extra-curricular performances that occur beyond the school day and on weekends. In addition, Honors Choir members are strongly encouraged to participate in travel experiences during scheduled years. Travel experiences will be based on the educational value of the travel as well as high quality performance opportunities in exceptional venues. Students participating in Honors Choir embody the core of the MAHS Choral Program and therefore, perform in multiple MAHS choral ensembles to include Bel Canto and Men's Ensemble. Additional concert attire will need to be purchased by the student for this ensemble.

Prerequisites: By audition only

Average time spent on homework per week: 2.5 hours

Partners in Music — Course 3592

Gr. 11, 12 — .5 Credit

Partners in Music is an inclusive approach to music that pairs students with special needs with their general education peers (peer partner). Class activities include, but are not limited to, music appreciation, music reading, music composition, playing and performing instruments/singing. The goal of the course is to facilitate an appreciation for lifelong musicianship through positive peer relationships. Partners in Music also supports the development of leadership skills and empowers all students to foster an inclusive class and school- wide environment. Additionally, peer students will be responsible for leading warmups as well as designing and instructing an engaging, differentiated lesson plan.

Prerequisite: Application Process and 2 Teacher Recommendations
Special Consideration: May be given to members of Unified Sports Bocce Team Partners, Members of Forever Friends Club, & Music Ensembles

Health and Physical Education Department

Physical Education 9-10*	Team Sports 11-12*
Adaptive Physical Education 9-12*	Lifetime Fitness 11-12*
Health and Wellness 9*	Partners in Physical Education 11-12*
Health Education 10*	Independent Physical Education 11-12*
**Indicates that a course is a one-semester course (½ credit)*	

The PA standards for Health Education are met through participation in both Health & Wellness 9 & Health 10.

Physical Education .5 Credit

Gr. 9 **Course 0500**

Gr. 10 **Course 0505**

Physical Education courses are designed to provide students with instruction and experience in a wide variety of individual and team physical activities. Emphasis is placed on attaining skills and knowledge necessary to pursue a health-enhancing level of physical fitness as an adult. This will be facilitated through an emphasis on the development of positive self-image, leadership, teamwork and cooperation with others, and other skills necessary for transferring class experiences to life-long participation in athletic and leisure-time recreational activities. The ninth-grade program is focused mainly on fitness-based physical activity. Units include but are not limited to: Fitness training and testing, aquatics (stroke development, conditioning swim), Cardio Sports, Volleyball, Weight Training, Dance and Cooperative Games. The tenth-grade course also includes an introduction to Lifetime Sports including: Tennis, Golf, Canoe/Kayak and Water Sports. Students in grades 11- 12 will be given the opportunity to choose the activities they would like to participate in through our PE elective system.

Required P. E. Attire & Equipment: Grades 9 and 10

Athletic shorts, t-shirt and/or sweats, athletic shoes, swimsuit, towel, and lock for gym locker

Adaptive Physical Education* .5 Credit

Gr. 9, 10, 11, 12 **Course 0530**

Health and Wellness* Course 0520

Gr. 9 **.5 Credit**

This course is required of all freshman students. It will provide information, instruction and experiences that will enable freshmen to gain the basic knowledge and essential skills and attitudes they will need to be successful in high school and beyond. Components of the course will include: Communicating Effectively, Assessing/Evaluating Your Health/Wellness, Goal Setting, Coping with Loss & Stress, Suicide Prevention, Physical Fitness, Practicing Wellness, Health Professionals/Agencies, Healthy Relationships, the Reproductive System, and Abstinence/STD Education. This course emphasizes intelligent decision-making and the need to be responsible for one's own health. Concepts are also reinforced through the Seven Habits of

Highly Effective Teens (Be Proactive, begin with the End in Mind, Put First Things First, Think Win-Win, Seek First to Understand, then to be Understood, Synergize, Sharpen the Saw)
*Special note: H&W classes will alternate with P. E. 9 classes on a 4 ½ week cycle

Health Education* Course 0525

Gr. 10 **.5 Credit**

Health is a year-long course for all 10th grade students and is a requirement for graduation. It is designed to provide students with a basic framework of knowledge necessary to develop positive attitudes and practices. Units of study will include, but are not limited to: Nutrition, Eating Disorders, Understanding Drugs and Medicine, Mental Health, Preventing Violence and Abuse, Preventing Infectious Diseases, Lifestyle Diseases, Other Diseases and Disabilities and First Aid/CPR. This course will make use of a combination of lectures, power point presentations, class discussions, student oral presentations, demonstrations, guest speakers, student activities, and a Life Issues research paper.
*Special Note: Health 10 classes will alternate with PE 10 on a 4 ½ week cycle

Lifetime Fitness* Course 0510

Gr. 11, 12 **.5 Credit**

Course outline: canoeing & kayaking, swim & water games, fitness training & testing, cardio games, ultimate frisbee, weightlifting, archery, golf, soccer, volleyball, racquet sports-tennis, badminton, pickleball, table tennis, softball, fitness training and testing, yoga, pilates, strength training, circuit training/stations, weight training, paddle boarding, spinning, and power walking.
Materials needed: Athletic shorts, t-shirt and/or sweats, athletic shoes, swimsuit, towel, and lock for gym locker.

Team Sports* Course 0515

Gr. 11, 12 **.5 Credit**

Course Outline: Fitness conditioning & testing, lax, softball, floor hockey, basketball, flag football, volleyball, ultimate frisbee, soccer, pickleball, tchoukball, angle ball, water games, and cardio games.
Materials Needed: Athletic t-shirt, athletic shorts and/or sweats, athletic shoes, swimsuit, towel, and lock for gym locker.

Partners in Physical Education* Course 0534

Gr. 11, 12 **.5 Credit**

Partners in PE is an inclusive approach to physical education that pairs students with special needs with their general education peers (peer partner). Class activities include, but are not limited to, weight training, fitness, dance, team sports, racquet sports, aquatics, and Bocce. The goal of the course is to facilitate an appreciation for lifelong fitness and wellness through positive peer relationships. Partners in Physical Education also supports the development of leadership skills and empowers all students to foster an inclusive class and school-wide environment. Additionally, peer students will be responsible for leading warmups and sport skill stations as well as designing and instructing an engaging, differentiated lesson plan.

Prerequisite: Application Process and 2 Teacher Recommendations
Special Consideration: May be given to members of Unified Sports Bocce Team Partners & Members of Forever Friends Club

Independent Physical Education* .5 Credit

Gr. 11 Course 0565
Gr. 12 Course 0570

1. Student must carry a FULL SCHEDULE each semester, no Study Hall.
2. Student must be taking a minimum of two advanced courses. The principal may consider other unusual circumstances.
3. Student must submit a letter explaining the request and have principal's approval prior to beginning an alternate P.E. program. The Principal must give final approval to receive credit.
4. Student must clearly identify the nature and scope of planned alternative physical activities (cannot be a MAHS inter- scholastic sport). Alternative physical activities must reflect appreciable coherence with PA. State standards in P.E.
5. Student must participate in an approved or recognized program and must be supervised by a certified physical activity instructor or supervisor. The instructor's or supervisor's name, address, phone number and proof of certification must be provided.
6. Student must complete 72 hours of physical activity and maintain a weekly log that show what state standards in Physical Education are being met by the first week of May.
7. Activities must include all the following: aerobic exercise (20 hours minimum), muscle and limb stretching activity (10 hours minimum), muscle strengthening activity (10 hours minimum), water safety activity (5 hours minimum), dance (5 hours minimum)
8. Student must submit signed log to PE coordinator every 4.5 weeks (Log must be signed and dated by the instructor or supervisor). Student must submit final signed log/report signed by student, parent and activity supervisor.

Science Department

Integrated Science	AP Physics 1
Applied Biology	Earth and Space Science
Biology	AP Chemistry
Biology – Honors	AP Chemistry Lab*
Human Anatomy & Physiology – Honors	CHS Physics
Physical Science	AP Biology
Chemistry	AP Biology Lab*
Chemistry – Honors	Keystone Biology Remediation
Physics	
**Indicates that the course is a one-semester course (½ credit)*	

Students planning to participate in Division I, II, or III college athletics must ensure their academic studies align with NCAA standards. NCAA approved coursework can be found on page 11

Integrated Science — Course 2506

Gr. 9 — **1 Credit**

This comprehensive lab-based course is designed to expose 9th grade students to the difference science classes offered at the high school. Students will spend time learning about the process of science and how scientist use various tools and equipment to successfully carry out studies. Students will also be introduced to the basic building blocks of Chemistry, the intricacies of the Earth and Solar System, and the fundamentals of our biological world. Students will be expected to analyze, interpret, and make predictions based on given data. Scientific calculators will be used in this course.

Prerequisite: Recommendation from 8th grade science teacher

Applied Biology — Course 2510

Gr. 10, 11, 12 — **1 Credit**

This is a year-long, full-credit course that continues the study of applied science introduced in Integrated Science 1. This course emphasizes life science and provides hands-on experience which demonstrates the practical use of biology in our society. Students are required to take the Keystone Exam upon completion of this course.

Prerequisite: Successful completion of Integrated Science and teacher recommendation

Biology — Course 2515

Gr. 10, 11, 12 — **1 Credit**

This course is designed to introduce the student to basic biological theories, vocabulary, and laboratory practice. Through the process of demonstrations, discussions, cooperative and individual laboratory investigations and assignments, the unity, continuity, and interaction of living systems are emphasized. Students can investigate the characteristics of life, cell biology, genetics and heredity, evolution, classification of life, ecology, and a survey of the animal kingdom. The course is designed for both college and non-college bound students. Students are

also encouraged to explore current science topics in this course. Students are required to take the Keystone Exam upon completion of this course.
Prerequisite: Successful completion of Integrated Science 9

Biology – Honors — Course 2520

Gr. 9, 10 — **1 Credit**

This course is designed for the superior science student who has demonstrated academic success. The pace of learning is accelerated, the level of expectation is high and student independence to accept individual responsibility and effort is essential. The course provides a student with an opportunity to investigate all levels of biological organization with an emphasis on the cellular level. Topics covered include: tools of biological investigation, biochemistry, cell structure and function, photosynthesis, respiration, nucleic acid structure and function, genetics, evolution, study of microbes, invertebrates, ecology, environment, and limited vertebrate study. Students are required to take the Keystone Exam upon completion of this course.
Prerequisite: 90% in 8th grade Science and teacher recommendation
Average time spent on homework per week: 2 hours

Human Anatomy and Physiology – Honors — Course 2525

Gr. 11, 12 — **1 Credit**

This course is designed for students who are seeking a firm foundation in the physical and chemical structures of the human body and the physiology that supports them. It is a rigorous course that engages and prepares students who are interested in the human body and health/medical fields. Content and labs will reinforce and enhance concepts of Biology and apply them to how the human body works. The work ethic required of students to study and understand the textbook, depth of topics covered, and laboratory work, mirrors that of a course taken by freshmen anatomy students in college.
Prerequisite: Completion of Biology, Chemistry (Students may concurrently take Physics and Human Anatomy & Physiology)
Average time spent on homework per week: 2 hours

Physical Science — Course 2530

Gr. 11, 12 — **1 Credit**

This is a full-year course in which students will study chemistry and physics. A multi-disciplinary approach will be used to reinforce concepts of matter and energy. Topics include states and structure of matter, chemical reactions, thermodynamics, motion, and force.
Prerequisite: Successful completion of Biology or Applied Biology

Chemistry — Course 2535

Gr. 10, 11, 12 — **1 Credit**

This is a course designed for the student seeking a laboratory science credit for college admission or for the student interested in learning more about the chemical nature of his/her environment. The course is an introduction to the discipline of chemistry. The program will examine laws and

concepts related to chemistry. Supporting descriptions of matter and the mathematics that apply will also be studied. Laboratory activities to support the classroom studies will be chosen. The student can expect to become involved with the elementary aspects of first year Algebra. Scientific calculators are used in this course.
Prerequisite: Students must be taking at least Algebra 2A and have a C or better in current math class and biology class; recommendation from current science teacher and math teacher is required

Chemistry – Honors — Course 2540

Gr. 10, 11, 12 — **1 Credit**

This is an honors course designed for the above average student seeking or requiring a challenge or for the students that will likely concentrate on a scientific or technological career. The course deals with the theory of chemistry and material descriptions. This course involves an emphasis on mathematical applications of concepts, theories, and principles. An extensive amount of material is covered, and the student is expected to accept the responsibility of individual effort and study. Scientific calculators are used in this course.
Prerequisite: Biology or Biology-Honors
Average hours of homework per week: 2

Physics — Course 2545

Gr. 10, 11, 12 — **1 Credit**

This will be lab-based college-prep course exploring principles of mechanics, waves and electricity. It will be based on the integration of physics principles with algebra, trigonometry, and chemistry concepts.
Prerequisite: Chemistry or taking Chemistry concurrently; taking at least Algebra 2 concurrently

AP Physics 1 — Course 2550

Gr. 10, 11, 12 — **1 Credit**

The AP Physics 1 course is equivalent to the first semester of a typical introductory, algebra-based course. The course and the AP exam are organized around six underlying principles called the big ideas, which encompass the core scientific principles, theories, and processes of physics. There will be an emphasis on experimentation and students will be required to complete laboratories on physics topics and submit student generated laboratory reports. An extensive amount of material is covered, and the student is expected to accept the responsibility of individual effort and study.
Prerequisite: Science: Academic/Honors Chemistry or taking concurrently; Mathematic: Completion of Algebra 2/Honors Algebra 2.
Average time spent on homework per week: 2 hours

Earth and Space Science — Course 2555

Gr. 11, 12 — **1 Credit**

This is a full-year course in which students will study aspects of Earth and Space Science. Although other topics will be explored, the main emphasis of this course will be on Astronomy,

Geology, Oceanography, and Meteorology. Hands-on activities will be used to give students the opportunity to further explore key concepts in Earth and Space Science. This course is an elective and may not be used to take the place of the required eleventh grade science course. Prerequisite: Physical Science or Chemistry (students may take this course with Physical Science or Chemistry), and recommendation from current science teacher

AP Chemistry w/ Lab — Course 2560

Gr. 11, 12 — **1.5 Credit**

This is a rigorous course designed to prepare the student to successfully take the Advanced Placement exam and thereby gain college credit. There is a heavy emphasis on the problem-solving aspects of atomic and molecular structure, thermodynamics, reaction kinetics, equilibrium and electro-chemistry. Extensive laboratory work will accompany and amplify the theoretical aspects of the course.
Prerequisite: Honors Chemistry and Physics courses, taking at least Trig/Pre-Calc concurrently, proven ability to function independently, and instructor approval. This course requires an additional daily period for lab work
Average time spent on homework per week: 2.5 hours

CHS Physics — Course 2565

Gr. 11, 12 — **1 Credit**

This course will be a second-year physics course offered to students interested in a career in science, specifically physics or engineering. The course will cover advanced topics in mechanics and will be taught as a first-year college physics course. Students must be concurrently taking Calculus and will have the opportunity to earn 4 college credits from the University of Pittsburgh.
Prerequisite: Physics/AP Physics; at least Calculus concurrently
Average time spent on homework per week: 2 hours

AP Biology w/ Lab — Course 2570

Gr. 11, 12 — **1.5 Credit**

AP Biology is designed to be the equivalent of a college introductory biology course. The textbook, depth of topics covered, laboratory work, and work ethic required of students mirrors that of a course taken by biology majors in college. The goal of this class is to support the conceptual framework of modern biology through application of content using science practices. The course prioritizes situational use of concepts and doing science through inquiry rather than memorizing terms and technical facts. The big ideas covered in the course are 1) the process of evolution driving diversity of life, 2) biological systems and energy, 3) genetic processes as living systems essential to life, and 4) interactions among biological systems and the environment. Students taking this course will be required to take the AP Exam in May. This course requires an additional daily period for lab work.
Prerequisite: Completion of Biology, Chemistry (Students may concurrently take Physics and AP Biology) Average hours of homework per week: 2

Keystone Biology Remediation — Course 2585

Gr. 10, 11, 12 — 1 Credit

Course 2580 .5 Credit

This elective course provides targeted review of essential Biology concepts for students who have not scored Proficient or Advanced on the Biology Keystone Exam. Students will strengthen understanding of cell structure and function, genetics, evolution, ecology, and other Keystone-aligned content to improve performance on the upcoming assessment.
Prerequisite: Students will not be able to request this course but will be enrolled via teacher recommendation and administrative placement.

Recommended Science Sequence

Grade 9	Grade 10	Grade 11	Grade 12
Integrated Science 1	Applied Biology Biology	Physical Science Chemistry	*Electives* Earth/Space Science Chemistry Physics
Integrated Science 1	Biology Honors Biology	Chemistry Honors Chemistry Physical Science *Electives* Human Anatomy & Physiology Earth/Space Science	*Electives* Physics AP Physics 1 AP Chemistry AP Biology Human Anatomy & Physiology Earth/Space Science
Honors Biology	Honors Chemistry Chemistry	*Electives* AP Physics 1 Physics Human Anatomy & Physiology AP Chemistry AP Biology	*Electives* AP Chemistry AP Biology CHS Physics Human Anatomy & Physiology Earth/Space Science

To meet the Pennsylvania State Standards for Science & Technology and Environmental Science, students must select one of the core science courses offered each academic year in grades 9–11. Students choosing an elective in grade 11 must also concurrently enroll in a core science course for that year. Core science courses are underlined and are located under the grade level on the chart.

All science course selections must have the approval of the student's current science teacher.
Please Note: These are recommended, not required, sequences.

Social Studies Department

	Required Courses	Elective Courses
Gr. 9	U.S. History 1865 to 1945	Ethics* (Grade 11, 12)
Gr. 9	U.S. History 1865 to 1945 – Honors	Practical Justice* (Grade 11, 12)
Gr. 10	Comparative World History	Psychology* (Grade 11, 12)
Gr. 10	Comparative World History – Honors	Sociology* (Grade 11, 12)
Gr. 10	AP European World History	
Gr. 11	Modern Global History	
Gr. 11	Modern Global History – Honors	
Gr. 11	AP U.S. History	
Gr. 12	Civics and Economics	
Gr. 12	AP Government & U.S. Government/Politics	
*Indicates that a course is a one-semester course (½ credit)		

Students planning to participate in Division I, II, or III college athletics must ensure their academic studies align with NCAA standards. NCAA approved coursework can be found on page 11

U.S. History 1865 to 1945 — Course 1500

Gr. 9 — **1 Credit**

This course is an in-depth look at US History from the Reconstruction Era through the close of World War II. The focus is on the political, social, and economic development of the United States, including Pennsylvania's role. There is heavy emphasis on accurately completing homework, note taking, and organizational skills.

U.S. History 1865 to 1945 – Honors — Course 1505

Gr. 9 — **1 Credit**

This course (which includes the same topics as described in the academic 9th grade course) is intended for students who have an interest in social studies and desire a more demanding course offering. In addition to the normal prerequisite, students will write essays, at least one persuasive essay, and do additional readings and activities designed to enhance critical thinking skills. Students are required to contribute in greater detail to class discussion.
Prerequisite: 90% or higher in 8th grade social studies, and/or teacher recommendation
Average time spent on homework per week: 2-3 hours

Comparative World History — Course 1510

Gr. 10 — **1 Credit**

The first semester of Comparative World History is an analysis of economic, social, cultural, and political history of the Post-Classical world and the Early Modern Era in Europe, the Middle East, and China. The second semester highlights include comparisons of Europe, India and China during the Late Modern Era to the Post-Modern Era in India, China, and the Middle East.

Comparative World History – Honors — Course 1515

Gr. 10 — **1 Credit**

This course (which includes the same topics as described in the academic 10th grade course) is intended for students who have an interest in social studies and desire a more demanding course offering. In addition to the normal prerequisites, students will write essays, do additional readings and activities designed to enhance communication, research, and critical thinking skills.
Prerequisite: 90% or higher in 9th grade social studies, and/or teacher recommendation
Average time spent on homework per week: 3-5 hours

AP European History — Course 1535

Gr. 10 — **1 Credit**

This course is for academically advanced sophomores. This rigorous college level course leads to an exam through which students can earn college credit. The course focuses on the events, movements, institutions, and people that shaped Western European history between 1450 and the present. Students will explore the social, intellectual, political, economic, cultural, and diplomatic forces of European development. Students are evaluated on their progress through quizzes, tests, essays, book reviews, and projects. It is a rigorous college level course, which can lead to college credit or advanced placement based on the results of the Advanced Placement Exam which is given here annually.
Prerequisite: 90% or higher in 9th grade social studies, and/or teacher recommendation
Average time spent on homework per week: 4-5 hours

Modern Global History — Course 1525

Gr. 11 — **1 Credit**

Contemporary Global History is an analysis of the cultural, economic, social, and political history of the United States and the world from the end of World War II to the present day. Course topics include the Truman Era, Cold War, 1950s, the Civil Rights Movement, the Vietnam Era, 1960s, Watergate, the turbulent 70s, Conservatism and the end of the Cold War, global terrorism, 1990s, technology, 2000s, and current events/ issues.

Modern Global History - Honors — Course 1530

Gr. 11 — **1 Credit**

This course (which includes the same topics as described in the academic 11th grade course) is intended for students who have an interest in social studies and desire a more demanding course offering. In addition to the normal prerequisite, students will write essays, at least one persuasive essay, do additional readings and activities designed to enhance critical thinking skills. Students are required to contribute in greater detail to class discussion and to analyze primary and secondary sources. There are several required research projects.
Prerequisite: 90% or higher in 10th grade social studies, and/or teacher recommendation
Average time spent on homework per week: 3-5 hours

AP U.S. History — Course 1520

Gr. 11 — 1 Credit

This year long course is designed for academically talented juniors. The course examines the history of the United States from discovery to the present. It is a rigorous college level course, which can lead to college credit or advanced placement based on the results of the Advanced Placement Exam, which is given here annually. This course requires extensive summer work and homework nearly every evening. It is necessary for students in this course to have a high level of competence in writing and be self-motivated to cover a myriad of material.
Prerequisite: 90% or higher in 10th grade social studies, and/or teacher recommendation
Average time spent on homework per week: 4-6 hours

Civics and Economics — Course 1540

Gr. 12 — 1 Credit

This course is designed to help students become informed and active citizens of the United States through the study of government and economics. Students will explore constitutional freedoms, public policy, and civic participation, with a focus on state and local government structures. The economics portion of the course introduces students to essential concepts such as global economic systems, supply and demand, and the role of government in the economy. Students will also examine money, banking, credit, and gain practical knowledge in personal finance to support responsible decision-making in their futures.

AP U.S. Government/Politics — Course 1545

Gr. 12 — 1 Credit

This course is for academically talented and highly motivated seniors. One of the major outcomes of the course is to give students an analytical perspective on government and politics in the United States. This course will include both the study of general concepts used to interpret U.S. politics and the analysis of specific examples. It also requires familiarity with the various institutions, groups, beliefs, and ideas that constitute U.S. politics. Students will have a comprehensive look at the U.S. Constitution, the development of individual liberties and the political process. Students will study from a number of source materials, participate in discussions about past and current political issues, prepare and conduct class presentations, write short essays, and complete nightly readings and assignments. It is a rigorous college level course, which can lead to college credit based on the results of the Advanced Placement Exam.
Prerequisite: 90% or higher in 11th grade social studies and teacher recommendation.
Average time spent on homework per week: 4-6 hours

Social Studies Electives

Ethics* (Gr. 11, 12)	Psychology* (Gr. 11, 12)
Practical Justice* (Gr. 11, 12)	Sociology* (Gr. 11, 12)
*Indicates that a course is a one-semester course (½ credit)	

Ethics* Course 1550

Gr. 11, 12 **.5 Credit**

This is a one-semester elective course that provides students with historical, philosophical, theoretical, and practical knowledge of ethical situations and moral dilemmas that are present in society. Students will be able to analyze how ethical principles have developed over time, as well as how different societies and cultures deal with ethical situations. The course will also focus on decision-making and how using ethical principles can lead to effective decision-making strategies. A significant portion of the class will be used to analyze current ethical questions plaguing American society and how resolutions might be reached. The desire and ability to participate in classroom discussions is essential to success in this class. As a final evaluation, students will be required to compose a research paper that explores specific ethical theories and applies these theories to the behavior of characters from film and literature.

Practical Justice* Course 1555

Gr. 11, 12 **.5 Credit**

This is a one-semester elective course that will provide students with practical information and problem-solving opportunities that develop the knowledge and skills necessary for survival in our law-saturated society. Students will leave this course with the ability to analyze, evaluate and resolve legal disputes and will be challenged to consider legal aspects of some of the most difficult issues facing our democracy today. A significant portion of the course will be dedicated to identifying and analyzing current legal issues in American society. Case studies, mock trials, role plays, small group activities, intense discussions and visual analysis activities will also be used to provide a framework for learning. Students will be required to research, analyze and present an actual case study as a final evaluation for the course.

Psychology* Course 1560

Gr. 11, 12 **.5 Credit**

This is a one-semester elective course that will introduce students to the scientific study of human and animal behavior. Students will gain a better understanding of their own behavior and the behavior of others. Topics covered will examine the psychological perspectives, the history of psychology, learning and cognition, intelligence, adolescent behavior, and psychological disorders. Students will be required to participate in class group activities and complete and in-depth research project on a psychological issue of their choice.

Sociology* Course 1565

Gr. 11, 12 .5 Credit

This is a one-semester elective course that will introduce students to the study of society and society's problems. Students will gain a better understanding of themselves and their social world. Topics covered will examine sociological perspective, cultural socialization, groups and organizations, stratification, inequality and gender, race and ethnicity, and the American Value System. Sociology seeks to describe and explain various aspects of social life, particularly how the groups and the society of which we are a part influence our lives and how we in turn may bring about changes in our times. Students will be required to participate in class group activities and complete an in-depth research project on a social issue of their choice.

Special Education Department

These courses are offered as special education courses that are scheduled for students by special education teachers based upon Individual Education Programs. These courses are not open to the general student body and must be scheduled and approved by a special education teacher and a counselor. Other Special Education courses not listed will be scheduled by a special education teacher and/or counselor as needed or when circumstances require.

Algebra 1A	Reading Strategies A – Year 1
Core Geometry A	Reading Strategies A – Year 2
Consumer Math A	Reading Strategies A – Year 3
Executive Functioning Skills/Study Skills	

Algebra 1A — Course 6205

Gr. 9, 10 — **1 Credit**

This year long course focuses on linear and quadratic relationships. During the linear portion of the course, students will study linear expressions, equations and inequalities. Students will also solve systems of linear equations, represent linear equations and inequalities, and graph linear functions. During the quadratics portion of the course, students will study quadratic and exponential expressions. The course is intended for students in the Learning Support Math Program. Students are required to take the Keystone Exam upon completion of this course.
TI-83+ calculators are used and will be provided by the teacher for classwork
Prerequisite: Teacher recommendation

Core Geometry A — Course 6210

Gr. 10, 11 — **1 Credit**

This course focuses on the key topics that provide a strong foundation in the essentials of geometry. Core geometry is intended for students in the Learning Support Math Program, Grades 10 or 11 who have completed Algebra 1.

Consumer Math A — Course 6215

Gr. 10, 11, 12 — **1 Credit**

This course will give students a general understanding of math used in real-life situations. There is a two-year cycle between Consumer Math 1 and Consumer Math 2. Any student in 10th, 11th or 12th grade learning support math, who completed Algebra 1 and Geometry, may take this course for one or two years.

Reading and Writing Strategies A — Course 6411

Gr. 9, 10, 11, 12 — **1 Credit**

This class will provide students with the opportunity to improve fundamental reading and writing skills through intensive instruction. Extensive opportunities for applying reading strategies for before, during and after reading will be provided. Instructional goals include strengthening word recognition, comprehension, and proofreading skills. Specific lessons provide opportunities for

students to work on their instructional and independent levels to improve fluency and retell, accurately identify, and utilize context clues and write cohesive, focused paragraphs. This course is intended for students in the Learning Support Program.
Prerequisite: Teacher recommendation

Reading Strategies A – Year 1 Course 6405

Gr. 9, 10, 11, 12 **1 Credit**

This class will provide students with intensive instruction to develop fundamental reading skills. Instructional goals include growth and development of decoding, accuracy and automaticity for word recognition, spelling, and proofreading proficiency. Development of reading skills will focus on vocabulary and passage comprehension. Reading comprehension instruction focuses heavily on prosody, intonation, and retell/comprehension review after reading a passage. Extensive opportunities for applying reading strategies for before, during and after reading will be provided. Students are encouraged to continue through the entire 3-year program. The course is intended for students in the Learning Support Program. Upon successful completion of Reading Strategies – Year 1, students will be recommended for Reading Strategies – Year 2, which is then followed by Reading Strategies – Year 3.
Prerequisite: Teacher recommendation

Reading Strategies A – Year 2 Course 6406

Gr. 10, 11, 12 **1 Credit**

This class follows successful completion of Reading Strategies – Year 1 and will continue providing students with intensive instruction to develop fundamental reading skills. Instructional goals include the continued growth and development of decoding, accuracy and automaticity for word recognition, spelling and proofreading proficiency. Development of reading skills will continue to focus on vocabulary and passage comprehension. Reading comprehension instruction focuses heavily on prosody, intonation, and retell/comprehension review after reading a passage. Extensive opportunities for applying reading strategies for before, during and after reading will be provided. Students are encouraged to continue through the entire 3-year program. The course is intended for students in the Learning Support Program. Upon successful completion of Reading Strategies – Year 2, students will be recommended for Reading Strategies – Year 3
Prerequisite: Reading Strategies – Year 1 Successful Completion; teacher recommendation

Reading Strategies A – Year 3 Course 6408

Gr. 10, 11, 12 **1 Credit**

This class follows successful completion of Reading Strategies – Year 2 and will continue providing students with intensive instruction to develop fundamental reading skills. Instructional goals include the continued growth and development of decoding, accuracy and automaticity for word recognition, spelling and proofreading proficiency. Development of reading skills will continue to focus on vocabulary and passage comprehension. Reading comprehension instruction focuses heavily on prosody, intonation and retell/comprehension review after reading a passage. Extensive opportunities for applying reading strategies for before, during and after

reading will be provided. The course is intended for students in the Learning Support Program
Prerequisite: Reading Strategies – Year 2; teacher recommendation

Executive Functioning Skills/Study Skills Course 6407 A

Gr. 9, 10, 11, 12 **1 Credit**

This course is designed for students who desire to develop study skills and test taking strategies. This course will ultimately help students to set and achieve both educational and life goals. Students will leave this class with a better understanding of their individual strengths and weaknesses, and the information and skills to improve their own understanding, learning, and retention across disciplines. This course not only teaches students how to go about becoming better students but also arms them with the tools to become high achievers in all aspects of their lives.

Additional Special Education Courses

The following one credit courses follow the curriculum described in the English Section:

English 9A - Course 6000 English 11A – Course 6010

English 10A – Course 6005 English 12A - Course 6015

The following courses are offered to students in our Life Skills Support Program:

Basic English - Course 6300 Basic Math – Course 6310

Basic Social Studies – Course 6305 Basic Science - Course 6315

Adaptive Art – Course 3517 Partners in PE – Course 0534

Lifetime Readiness – Course 4560 Partners in Music – Course 3592

Vocational Education – Course 6320

Technology Education Department

Integrated Technology*	Computer Aided Drafting & Design
Invention Laboratory*	Engineering Design ½ Honors
Wood Fabrication	Architectural Drawing & Design
Metals Fabrication	Advanced Wood Fabrication
*Indicates that a course in a one-semester course (½ credit)	

Integrated Technology* Course 4500

Gr. 9, 10, 11, 12 **.5 Credit**

This semester course is designed to provide students with knowledge and hands-on experience exploring the development, use and impacts of technology in the areas of manufacturing, construction, transportation, and communication. Students, working alone and in groups, will problem solve, design, develop, construct, and test projects, such as 3D deck modeling, CO2 car racing, and tower construction, just to name a few.

Invention Laboratory* Course 4502

Gr. 11, 12 **.5 Credit**

Students will work in a group alongside professional engineers to collaborate and assist them with current design problems within their company. Students will develop solutions to the real-world problems proposed by local businesses and organizations that require a wide range of skills and creative thinking. This course will require students to participate in problem-based and project-based learning activities, inquiry learning tasks, and use the technology to present design solutions at the cooperating business

Prerequisite: Honors Engineering Design 1

Wood Fabrication Course 4505

Gr. 9, 10, 11, 12 **1 Credit**

This one-year course is designed to develop the students' planning skills for designing items constructed of wood. The instruction in this course is centered on power machinery and safety. Emphasis is placed on operational procedure, design, problem-solving, creativity, and safety. Students will use all the tools and machines in the lab including the Laser Engraver and the NC Router.

Metals Fabrication Course 4510

Gr. 9, 10, 11, 12 **1 Credit**

This one-year course consists of sheet metal fabrication, forging, gas, arc, TIG and MIG welding, plasma cutting and foundry technologies. Machine-tool technology includes operational techniques of the engine lathe, vertical mill, and other power equipment. Advanced metal fabricating techniques are included to develop and relate aesthetic expression with industrial fabrication techniques. Computer numerical control (CNC) applications and programming will be incorporated with the use of a CNC mill and plasma cutting. LIMITED TO 3 YEARS

Advanced Wood Fabrication — Course 4515

Gr. 10, 11, 12 — **1 Credit**

This one-year advanced study course is designed to provide and develop abilities and skills in students in the areas of complex case design, furniture construction, and mass production. The instruction in this course is centered on power machinery, manual layout and design, laser engraving and CNC machining individual projects. Emphasis is placed on safety, creativity, and design. Students will use all the tools and machines in the lab including the NC Router and the Laser Engraver.

Prerequisite: Wood Fabrication

Computer Aided Drafting and Design (CADD) — Course 4520

Gr. 9, 10, 11, 12 — **1 Credit**

This basic one-year course in drafting gives the student a good understanding and background in technical illustration and enables the student to become proficient. The student will learn concepts from basic two-dimensional representations to complex three-dimensional solids. Students will gain experience in both traditional board drawing to computer-aided design using AutoCAD software.

Engineering Design 1 & 2 Honors — Course 4525

Gr. 10, 11, 12 — **1 Credit**

Limit 2 years

Honors Engineering Design is a course that develops application, creativity, and problem-solving skills with emphasis on 3D modeling with Inventor software. This course emphasizes following the design process to develop unique solutions to problems such as designing a stadium, hydraulic arm, airboats, and boomerangs. A year-long portfolio will be created throughout the year.

Engineering Design 1 Co-requisite: Algebra 2

Engineering Design 2, Gr. 11, 12 Prerequisite: Pass Engineering Design 1 with 90% or better

Architectural Drawing and Design — Course 4530

Gr. 10, 11, 12 — **1 Credit**

This one-year course gives students experience in basic house design. The fundamental sequences in designing and drawing are stressed as the student completes the architectural drawings necessary for the construction of a house. Elements of the course include architectural styles, area planning, structural detailing, and building specifications. Several computer software packages will be used to create detailed plans, drawings, and scaled models.

World Language Department

French 1	German 1	Spanish 1
French 2	German 2	Spanish 2
French 3	German 3	Spanish 3
French 4	German 4	Spanish 4
French 4 – Honors	German 4 – Honors	Spanish 4 – Honors
French 5	German 5	Spanish 5
French 5 – Honors	German 5 – Honors	Spanish 5 – Honors

French 1 — Course 3000

Gr. 9, 10, 11, 12 — **1 Credit**

Students begin their study of French with the emphasis on oral communication. Using conversation, students learn vocabulary, culture, and basic grammar. Other learning activities include puzzles, songs, readings, and multimedia resources. The culture and lifestyles of French-speaking people are also covered.
Prerequisite: 70% or higher in English

French 2 — Course 3005

Gr. 9, 10, 11, 12 — **1 Credit**

Students continue to develop their language skills as they read, write, and practice speaking in a variety of situations. Students learn to express themselves in the past tense. Writing skills are developed as knowledge of vocabulary and sentence structure increases. French culture is interwoven using games and multimedia resources.
Prerequisite: 70% or higher in French 1

French 3 — Course 3010

Gr. 9, 10, 11, 12 — **1 Credit**

Students develop a more thorough knowledge of vocabulary, grammar, and French culture. They communicate in French daily, developing conversational skills in a wide variety of situations. Writing skills are also stressed. The cultures of French- speaking countries in Europe and Africa are studied.
Prerequisite: 70% or higher in French 2

French 4 — Course 3015

Gr. 9, 10, 11, 12 — **1 Credit**

Through various interactive activities and projects, students improve their speaking and writing skills. Grammatical concepts are reviewed as students read and discuss short stories, poems, and articles. In addition, students will add to their understanding of French culture through slides, films, and other authentic materials.
Prerequisite: 70% or higher in French 3

French 4 – Honors — Course 3020

Gr. 9, 10, 11, 12 — **1 Credit**

This course is designed for students who demonstrate outstanding ability in grammar, writing, reading, and speaking skills. In addition to the regular course work, the student will be required to complete one independent project for each grading period and will have additional questions and/or sections on some tests and quizzes.
Prerequisite: 90% or higher in French 3 and teacher recommendation
Average time spent on homework per week: 3-5 hours

French 5 — Course 3025

Gr. 9, 10, 11, 12 — **1 Credit**

Students enhance their communication skills as they read and discuss selected literary works, review grammatical structures, and engage in activities focusing on expressing their ideas. Composition, creative writing, and letter writing are included.
Prerequisite: 70% or higher in French 4

French 5 – Honors — Course 3030

Gr. 9, 10, 11, 12 — **1 Credit**

This course is designed for students who demonstrate outstanding ability in grammar, writing, reading, and speaking skills. In addition to the regular course work, the student will be required to complete one independent project for each grading period and will have additional questions and/or sections on some tests and quizzes.
Prerequisite: 90% or higher in French 4 and teacher recommendation
Average time spent on homework per week: 4-6 hours

German 1 — Course 3035

Gr. 9, 10, 11, 12 — **1 Credit**

Students begin their study of German with the emphasis on oral communication. Through oral and written activities, students learn vocabulary, culture, and basic grammar. Additionally, they begin to read authentic texts, such as school and train schedules, menus, maps, and advertisements. Games, dialogues, videos, and skits are used to practice new skills.
Prerequisite: 70% or higher in English

German 2 — Course 3040

Gr. 9, 10, 11, 12 — **1 Credit**

Students further develop their language skills as they read and write stories and dialogues and practice speaking in a variety of situations. Students learn the geography of Europe and Germany as they plan trips to German-speaking countries. German culture is interwoven using games, hands-on activities, and multimedia resources.
Prerequisite: 70% or higher in German 1

German 3 — Course 3045

Gr. 9, 10, 11, 12 — 1 Credit

Students continue to expand their communication skills through the acquisition of new vocabulary and grammar as well as hands-on activities including simulation games, reading, and writing activities. Students develop an increased understanding of the German-speaking countries and cultures through authentic readings, music, and videos.
Prerequisite: 70% or higher in German 2

German 4 — Course 3050

Gr. 9, 10, 11, 12 — 1 Credit

Through various interactive activities and projects, students begin to hone their skills particularly in the areas of speaking and writing. Grammatical concepts are reviewed as students read and discuss short stories, poems, and articles. Students practice more sophisticated ways of expressing themselves as they explore topics of contemporary life in Germany. Students further enhance their knowledge of German-speaking countries through videos, films, and other forms of authentic materials.
Prerequisite: 70% or higher in German 3

German 4 – Honors — Course 3055

Gr. 9, 10, 11, 12 — 1 Credit

This course is designed for students who demonstrate outstanding ability in grammar, writing, reading, and speaking skills. In addition to the regular course work, the student will be required to complete one independent project for each grading period and will have additional questions and/or sections on some tests and quizzes.
Prerequisite: 90% or higher in German 3 and teacher recommendation
Average time spent on homework per week: 3-5 hours

German 5 — Course 3060

Gr. 9, 10, 11, 12 — 1 Credit

Students enhance their communication skills as they read and discuss selected literary works, review grammatical structures for communication and engage in activities focused on expressing their ideas. Students will learn idiomatic patterns of the language. They will write stories, letters, poems, articles, and analyze selections of German literature.
Prerequisite: 70% or higher in German 4

German 5 – Honors — Course 3065

Gr. 9, 10, 11, 12 — 1 Credit

This course is designed for students who demonstrate outstanding ability in grammar, writing, reading, and speaking skills. In addition to the regular course work, the student will be required to complete one independent project for each grading period and will have additional questions and/or sections on some tests and quizzes.
Prerequisite: 90% or higher in German 4 and teacher recommendation
Average time spent on homework per week: 4-6 hours

Spanish 1 — Course 3070

Gr. 9, 10, 11, 12 — **1 Credit**

Students begin with an emphasis on oral communication. Through oral, listening, and written activities, students learn vocabulary, basic grammar, and culture of the Spanish-speaking countries. Videos, games, and multimedia resources are used to practice the four basic skills of speaking, listening, reading, and writing.
Prerequisite: 70% or higher in English

Spanish 2 — Course 3075

Gr. 9, 10, 11, 12 — **1 Credit**

Students continue to develop their language skills as they read, and practice speaking in various situations and continue to study the geography and culture of the Spanish-speaking areas of the world. Videos, multimedia resources, games, role- playing and other activities enhance their ability to communicate in Spanish.
Prerequisite: 70% or higher in Spanish 1

Spanish 3 — Course 3080

Gr. 9, 10, 11, 12 — **1 Credit**

Students further expand their communication skills through practicing old and learning new vocabulary and grammar. Conversation, role-play simulations, listening practice, reading practice, and writing practice are included. Authentic readings, movies, videos, games, multimedia and speaking activities are used to develop communication skills.
Prerequisite: 70% or higher in Spanish 2

Spanish 4 — Course 3085

Gr. 9, 10, 11, 12 — **1 Credit**

Emphasis is placed on speaking and writing skills. Reading of short stories, poems, etc. is included. Students further enhance their knowledge of cultural aspects through their exposure to art, music, and other humanities.
Prerequisite: 70% or higher in Spanish 3

Spanish 4 – Honors — Course 3090

Gr. 9, 10, 11, 12 — **1 Credit**

This course is designed for students who demonstrate outstanding ability in grammar, writing, reading, and speaking skills. In addition to the regular course work, students will be required to complete one independent project for each grading period and have additional questions and/or sections on some tests and quizzes.
Prerequisite: 90% or higher in Spanish 3 and teacher recommendation
Average time spent on homework per week: 3-5 hours

Spanish 5 — Course 3095

Gr. 9, 10, 11, 12 — 1 Credit

Students enhance their communication skills as they read and discuss selected literary work, review grammatical structures, and engage in activities focusing on expressing their ideas. Composition, creative writing, and letter writing are included.
Prerequisite: 70% or higher in Spanish 4

Spanish 5 – Honors — Course 3100

Gr. 9, 10, 11, 12 — 1 Credit

This course is designed for students who demonstrate outstanding ability in grammar, writing, reading, and speaking skills. In addition to the regular course work, the student will be required to complete one independent project for each grading period and will have additional questions and/or sections on some tests and quizzes.
Prerequisite: 90% or higher in Spanish 4 and teacher recommendation
Average time spent on homework per week: 4-6 hours

Parkway West Career & Technology Center

**ALL STUDENTS MUST submit their PWW application via the PWW portal by THE DEADLINE. No exceptions. Students with any attendance or discipline issues will be subject to administrative review and application may be denied.

Parkway West Career Majors

Students will attend Parkway West Area Career & Technology Center for a half-day. The other half of the day is spent at MAHS, where students will complete academic requirements and participate in co-curricular activities. Transportation is provided by Moon Area School District.

Several programs offer a tech-prep option in which the four-year Parkway students are assured a three-year program. The fourth year can consist of an internship in the area of the student's technical program. Students can receive advanced credit toward an Associate Degree at CCAC for work completed at Parkway West in several programs upon meeting the requirements of the articulation agreement.

Students must be in good academic standing and making adequate progress toward graduation requirements to enroll and remain in a Parkway program.

Automotive Cluster Rotation — Course 5029

3 Credit

During a student's first year at Parkway West CTC, he/she will select one program that he/she would like to participate in for one quarter. This program will be guaranteed to occur at some point during the student's first year. Students will then be randomly scheduled for the remainder of the school year. The Auto Cluster Program includes: Auto Body Repair, Automotive Technology, Diesel Technology, and Power Motorsports Technology. If a student is interested in exploring a fifth automotive-related program, they will have the opportunity to do so during the first quarter of their second year at Parkway West CTC.

Auto Body Repair* — Course 5030

***Pre-Requisite: Automotive Cluster Rotation** — **3 Credit**

The Auto Body Repair program is certified by the National Automotive Technology Education Foundation (NATEF) and provides instruction in the most current techniques for repair and replacement of damaged automobile parts. Students learn to repair collision damage and to replace quarter panels, door skins, and fenders. The curriculum also includes painting, MIG welding, collision repair, frame straightening, and damage analysis. Students gain experience in mixing and tinting paint, custom painting, computerized estimating, and auto detailing. Practical experience is also provided through a full-service auto body repair shop. Students can earn *PPG Blue Level Paint* and I-Car MIG Welding certifications. They are also eligible to earn I-Car Points.

Diesel Technology* Course 5073

***Pre-Requisite: Automotive Cluster Rotation** 3 Credit

Diesel Technology is part of every aspect of today's transportation, construction, and manufacturing industries. In Diesel Technology, students will learn about the operation, maintenance, and overhaul of diesel-powered equipment. Diesel engines are found in military vehicles, trucks, trains, buses, construction, and agricultural equipment. As the diesel equipment industry expands, the demand for mechanics and technicians to repair and maintain diesel equipment will continue to grow.

Power Motorsports Technology* Course 5033

***Pre-Requisite: Automotive Cluster Rotation** 3 Credit

Power Motorsports Technology teaches students to diagnose, maintain and repair utility vehicles, all-terrain vehicles, including side-by-sides, motorcycles, watercrafts as well as outdoor power machines, including lawn and garden equipment. Students will learn the principles of engine operation, understand basic electricity, service and maintain fuel and carburetor systems, transmissions, and powertrain systems used on several types of recreational and lawn & garden equipment. Students may have the opportunity to earn the following certifications: PA Emissions Certification; S/P2, OSHA 10.

Automotive Technology* Course 5035

3 Credit

Automotive Technology is certified by the National Automotive Technology Education Foundation (NATEF) and is affiliated with all major automotive manufacturers through Automotive Youth Educational Systems (AYES). Students prepare to take the Pennsylvania State Inspection License examination. Students learn basic vehicle maintenance, repair, and replacement of drive trains, brake systems, chassis components, and fuel and electrical systems. Special emphasis is placed on troubleshooting and engine performance via the use of state-of-the-art electronic diagnostic equipment. Practical experience is also provided in the auto repair shop. Under the Automotive Youth Educational Systems (AYES) apprenticeship program, students may qualify to become an apprentice working under mentor technicians. Students can earn certifications from AYES, the National Institute for Automotive Service Excellence (ASE), and the Coordinating Committee for Automotive Repair (CCAR).

Cyber Security & Network Technology Course 5024

3 Credit

The program prepares students who are interested in networking and computer diagnostics. It begins with Cisco IT Essentials, PC hardware and software, and network operating systems. Students initially prepare for CompTIAA+ and Comp TIA Server+ certifications and then, through the Cisco CCNA Discovery course, students learn networking concepts based on typical networks that one might encounter in a home or small office, or in larger, more complex enterprise models. Finally, students can prepare for the Cisco CCENT and Cisco CCNA certifications.

Culinary Arts 1 — Course 5021
Culinary Arts 2 — AM Course 5056/PM Course 5011
Culinary Arts 3 — Course 5012

3 Credits

The Culinary Arts Program provides practical instruction in the preparation of banquet, buffet, and a la carte styles of food preparation. Practical experience is provided through the operation and management of an in-house, full-service restaurant and beyond the restaurant environment to provide goods and services for Parkway's food store, where pastries and select meats are sold. Students learn to design cakes, sculpt ice, and prepare many different types of cuisine. First- year students spend one school year in Culinary Arts Level I. Second and third-year students will advance into Culinary Arts Levels II and III. Senior students who have completed at least two years of Culinary Arts will have the opportunity to earn both the National Restaurant Association's ServSafe certification and the American Culinary Federation certification.

Cosmetology 1 — Course 5040
Cosmetology 2 — AM Course 5046/PM Course 5045
Cosmetology 3 — Course 5050

3 Credits

The Cosmetology Program prepares students to perform technical services including all aspects of hair, skin/nail beautification, and personal maintenance. These skills are supported and reinforced with theoretical background including sanitation, chemistry, anatomy, and physiology, as well as structure, function, and disorders of the hair, skin, nails, and scalp. The Cosmetology Program helps students develop into well-rounded professionals, who practice real-world services in Parkway's salon, which is open to the public two days a week. Utilizing an integrated approach to teaching and learning, students learn about interpersonal relations, professional attitude, and career fundamentals along with technical knowledge and skills. Techniques and abilities are practiced and tested on mannequins, classmates, and the general public. Students attending this program for three years will have the opportunity to earn the 1,250 hours of state-regulated course requirements to take the state licensing exam to be a licensed cosmetologist, which encompasses providing services to the public for hair, skin, and nails.
Students who complete one or two years of instruction in this program may choose from the following specialized licensed fields:

Nail Technician License — Course 5051

3 Credit

This license requires 200 hours of instruction and can be completed within one year. An individual holding a nail technician license is qualified to perform nail technology services only.

Cosmetology Teacher's License — Course 5052

3 Credit

The prerequisite for this course is to have successfully passed either the Nail Technician License or the State Cosmetology Licensure. This license requires 500 hours of required studies and can

be completed within one year. An individual holding a teacher's license is qualified to perform the functions of a teacher in whichever specialized area the individual has obtained licensure.

Construction Technology Cluster — Course 5000

3 Credit

During a student's first year at Parkway West CTC, he/she will select one program that he/she would like to participate in for one quarter. This program will be guaranteed to occur at some point during the student's first year. Students will then be randomly scheduled for the remainder of the school year. The construction cluster programs include Carpentry, Electrical Systems Technology, HVAC/R, and Welding Technology. If a student is interested in exploring a fifth construction-related program, they will have the opportunity to do so during the first quarter of their second year at Parkway West CTC.

Carpentry — Course 5003

***Pre-Requisite: Construction Cluster Rotation** — 3 Credit

Students will apply technical knowledge and skills to layout, fabricate, erect, install and repair structures and fixtures using hand and power tools, scaffolding, and specialty tools used in the construction trade. This program includes instruction in common systems of framing, construction materials, estimating, blueprint reading and finish carpentry techniques. Students will be given the opportunity to earn a 10-hour Occupational Safety and Health Administration (OSHA) Construction card.

Electrical Systems Technology — Course 5005

***Pre-Requisite: Construction Cluster Rotation** — 3 Credit

The Electrical Systems Technology Program teaches students the integral components of the electrical industry for entry level employment in residential, commercial, and/or light industrial locations. The basis of instruction is in the layout, assembly, installation, wiring, maintenance, and troubleshooting of electrical systems. Understanding programmable logistical controls (PLC's) and how transformers operate are also covered.

HVAC/R — Course 5006

***Pre-Requisite: Construction Cluster Rotation** — 3 Credit

This course focuses on Heating, Ventilation, Air-Conditioning, and Refrigeration in a setting that has been newly renovated with state-of-the-industry equipment. Students will learn basic and advanced electrical theory, troubleshooting and repair of residential and commercial heating, air-conditioning and refrigeration systems. Students will be given the opportunity to earn a 10-hour Occupational Safety and Health Administration (OSHA) Construction card.

Welding Technology — Course 5075

***Pre-Requisite: Construction Cluster Rotation** — 3 Credit

The Welding Technology program covers several types of welding processes by which metal may be bent, cut, or welded together, including oxy-fuel, shielded metal arc, gas metal arc, gas tungsten arc, flux core welding, carbon arc, plasma cutting, and oxy-fuel brazing. Students will

learn the importance of industry safety, measuring instruments, hand tools, grinders, metallurgy, blueprint reading, electrical principles, layout/design, and fabrication, as well as how to prepare materials lists for cost estimates. Students have the opportunity to earn several American Welding Society (AWS) certifications.

Health Occupations Technology — Course 5060

3 Credit

Students in this program have the opportunity to participate in a wide range of real-world clinical and job shadowing experiences at many different local healthcare providers such as hospitals and other medically related facilities. Clinical experiences may include: childcare, long-term care, emergency nursing, recovery room nursing, radiology, medical records, operating room observation, pharmacy, physical/occupational therapy, and/or lab technician work. Students will have the opportunity to earn and complete the American Heart Association "CPR for Health Care Providers" certification and the following certifications in relation to the Health Care industry: Pennsylvania State Nurse Aid Registry (CNA): for first and second-year students, instruction begins with anatomy, physiology, and medical terminology, and special attention is given to medical office examinations, treatment, and patient care; Personal Care Home Direct Care Staff: for first and second-year students, this component offers a competency test from the PA Department of Public Welfare and it prepares students to work in a personal care home as a direct care giver.

Phlebotomy Technician Certification (CPT) — Course 5064

3 Credit

This is a one-semester certification course directed toward 12th grade students. Module and lab work include anatomy and physiology, infection control, safety and compliance, patient preparation, collection techniques, and processing of collected samples. Students must demonstrate a minimum of 30 successful venipunctures and 10 successful capillary punctures.

Pharmacy Technician Certification (CPhT) — Course 5062

3 Credit

After successful completion of this one-year, 12th grade course, students will assist a pharmacist in a variety of tasks. Module and lab work include controlled substances, laws and regulations, drug classification, frequently prescribed medications, prescription information, preparing/dispensing prescriptions, calculations, sterile products, unit dose, and repackaging.

Graphic Arts & Production Technology — Course 5023

3 Credit

The Digital Multimedia Technology program provides instruction in basic graphic design using computers and design software such as Adobe Illustrator, Acrobat, Photoshop, InDesign, and Dreamweaver. Students learn entry-level skills for desktop publishing, web design, digital photography, and graphic animation utilizing Flash. Several software applications are used to design, edit, and publish documents, images, and multimedia presentations in print and

electronic form. From designing a poster to developing a website, students will have the opportunity to apply their creativity to projects that resemble those within the industry. Students can earn the Adobe Certified Associate in Visual Communication and the Adobe Certified Associate in Web Communication via Certiport.

Veterinary Technology — Course 5077

3 Credit

Students will learn to keep medical records, schedule, offer client education, practice laboratory procedures, assist with nursing duties, prepare for surgeries, and assist during a routine exam. Students will also gain a solid educational base on which to build a post-secondary degree. This program may lead to additional career pathways such as Animal Trainer, Animal Breeder, Non-Farm Animal Caretaker, Laboratory Animal Caretaker, Groomer, Animal Control Worker, Veterinary Technician, Veterinary Technologist, and Veterinarian. Upon accreditation, students may earn the following certifications: Purina Certified Weight Coach; Pharmacy Technician; and Veterinary Assistant.

Public Safety Technology — Course 5070

3 Credit

The Public Safety Technology program focuses on careers relating to emergency medical services, firefighting, law enforcement, and emergency management services. To successfully complete the program, students must meet minimum proficiency levels in all public safety areas. Instruction is provided in disaster situations/management, hazardous materials handling, pre-hospital medical care, map reading, firefighting, the judicial system, and emergency dispatching. Students have the opportunity to earn the following certifications: Emergency Medical Technician-Basic (EMT-B), Basic Vehicle Rescue (BVR), Emergency Vehicle Operators Course (EVOC), Hazardous Materials Recognition and Identification (Haz-Mat R&I), and multiple Federal Emergency Management Agency certifications.

Sports Medicine & Rehabilitation Therapy Technology (SMARTT) — Course 5080

3 Credit

3 Credit

The Sports Medicine and Rehabilitation Therapy Technology (SMARTT) Program prepares students to work in the field of physical therapy, occupational therapy, and sports medicine. Students will develop skills in prevention, diagnosis, differential diagnosis, assessment, prognosis and the rehabilitation of injuries and other health conditions. Students will learn the principles of developing a plan of care including: evaluation, interventions (exercise, manual therapy, modalities and neuro re-education), assessment, goal setting and discharge. Students will also learn how to develop a proper diet for healthy individuals and tailor it for special populations through a comprehensive understanding of nutrition. Upon successful completion, students should be able to assist in the development and implementation of a plan of care for healthy and special populations. Careers available directly out of the program could include: Personal Trainer, Coach, and Physical Therapy Aid. This program also provides a

solid educational base on which to build a post-secondary degree or advanced certification. Careers available with additional post-secondary schooling include: Personal Trainer, Athletic Trainer, Physical Therapist, Physical Therapist Assistant, Occupational Therapist, Certified Occupational Therapist Assistant, Strength and Conditioning Coach, Medical and Exercise Physiology Researcher, Sports Psychologist, Dietitian and Exercise Physiologist.

Parkway West Academic Course Offerings

Principles of Technology — Course 5115

1 Credit

Students will learn applied physics. Topics will include force, momentum, thermodynamics, states of matter, electricity and magnetism. The math skills needed to be successful in this course are included in this curriculum. Students attending Parkway will take this course to satisfy 1 of 3 science credits required for graduation.

Chemical Properties in Practice — Course 5117

1 Credit

This course focuses on chemistry and its applications to today's issues. Students will first become acquainted with the basic principles of chemistry including matter and its states, the atomic theory and thermodynamic theory, reactions and solutions, and equilibrium. They will gain an understanding of the relationship between these content and nuclear and organic issues facing today's technology. Finally, they will use this knowledge to explore many of the ways chemistry is used to balance the needs and wants of humanity with the stresses placed on the physical environment with an eye toward the application of green technology and providing the energy needed for a population becoming more technological each day. The major focus is placed on: content, analysis, interpretation and problem solving of today's issues. Students attending Parkway may take this course to satisfy 1 of 3 science credits required for graduation.

U.S. History 1 — Course 5120

1 Credit

Students will learn the history of the United States from Pre-Colonial American to 1865. Students will gain insight into the nation's past and examine the links between past and present events. The major focus is placed on content, chronology, analysis, and interpretation.

World Cultures — Course 5125

1 Credit

Students will learn about diverse cultures existing around the world. Through study of pertinent issues to the world's major regions, students will recognize and evaluate the relationships between people, places, regions, and environments. Students will further explore how physical environments affect human events and build a global perspective that allows them to understand the connections between global and national issues. The major focus is placed on content, chronology, analysis, and interpretation.

U.S. History 2 — Course 5130

1 Credit

Students will learn the history of the United States from 1865 to present. Students will gain insight into the nation's past and examine the links between past and present events. The major focus is placed on content, chronology, analysis and interpretation. Academic courses note: Many other academic course offerings will be available through e-CADEMY, an online collaborative. These courses will be scheduled through the Parkway West Counselors on an individual basis.

Civics — Course 5135

1 Credit

Students will learn about diverse cultures existing around the world. Through study of pertinent issues to the world's major regions, students will recognize and evaluate the relationships between people, places, regions, and environments. Students will further explore how physical environments affect human events and build a global perspective that allows them to understand the connections between global and national issues. The major focus is placed on content, chronology, analysis, and interpretation.

Summary of Additional Dual Enrollment Opportunities

MAHS requires students considering any Dual Enrollment Program to have earned and maintain at least a minimum 2.5 GPA (some specific programs have higher GPA requirements) and have good attendance and behavior records.)

CCBC Academies – Visit https://www.ccbc.edu/high-school-academies for more information

Begin an exciting college education during 11th or 12th grade while completing high school. Students attend MAHS in the morning and travel to CCBC in the afternoon where they directly prepare for their career and earn college credits at a special Dual Enrollment rate.

Aviation Academy	For students interested in a career as a professional pilot, air traffic control or aerospace management
Health Academy	For students interested in health careers such as nursing, physical therapist, respiratory therapist, nurse practitioner, physician assistant
STEM Academy	For students who are interested in careers in Math, Science and Technology related fields.
Criminal Justice Academy	For students interested in a career in law enforcement
Mascaro Construction Academy	For students interested in learning technical skills that can then be applied to the planning, design, and construction of a project, from beginning to end.
Education Academy	For students interested in a career in education.

Each Academy has its own specific admissions criteria. Please see the Counseling Office for further information on programs or how to enroll.

Traditional Dual Enrollment

MASD has Dual Enrollment agreements with CCAC, Penn West University and PSU-Beaver. 11th and 12th grade students who meet all of the criteria are permitted to enroll in specific coursework, as High School Students, through these colleges at a discounted Dual Enrollment rate. Courses can be taken after school. Eleventh graders are permitted to leave after period 6A and take up to 1 course per semester. Twelfth graders are permitted to leave after period 5A and take up to 2 courses per semester.

MOON AREA HIGH SCHOOL
STUDENT WORKSHEET FOR GRADUATION REQUIREMENTS
2027 GRADUATES

Credit Requirements for Graduation		9th Grade **Schedule 7 Credits**	10th Grade **Schedule 7 Credits**	11th Grade **Schedule Minimum 6.5 Credits**	12th Grade **Schedule Minimum 6.5 Credits**
English	**4.0**				
Social Studies	**4.0**				
Math	**3.0**				
Science	**3.0**				
Physical Education	**2.0**	Physical Education 9	Physical Education 10		
Health 10	**.5**		Health 10		
Electives & Arts and Humanities & Personal Finance	**7.5**	Health 9			
Total Credits for Graduation (Minimum)	**24**				
Minimum earned credits to be promoted to the next grade level:		**5 Credits**	**11 Credits**	**17 Credits**	**24 Credits**

PENNSYLVANIA DEPARTMENT OF EDUCATION ACT 158 – GRADUATION PATHWAYS
COMPLETION OF CAREER READINESS PROJECT
COMPLETION OF PERSONAL FINANCE
ALL CREDITS ACCUMLATED TOWARDS GRADUATION MUST BE EARNED IN GRADES 9 - 12