

Program of Studies

LOYALSOCK TOWNSHIP HIGH SCHOOL



2026-27

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**THE LOYALSOCK TOWNSHIP SCHOOL DISTRICT
WILLIAMSPORT, PA**

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COUNSELORS

Nicole Rippey - Students with last names A-K
Nicole Turi - Student with last names L-Z

PURPOSE OF GUIDE

This document serves as one of the primary tools for guiding Loyalsock Township High School (LTHS) students toward their eventual post-secondary school goals. The courses listed serve as the vehicle through which students strive to reach their greatest potential across a variety of content areas. We are proud to offer a wide array of coursework to meet the needs of diverse learners. Coupled with sound teaching and learning practices that students will experience, we firmly believe that we are preparing LTHS students for virtually any future they choose to pursue. Please take your time as you review the required courses and elective/related arts opportunities in this guide.

COURSE SELECTION AND SCHEDULING PROCESS

PREPARATION FOR SCHEDULING

Working cooperatively with the Board of School Directors, district-wide curriculum committees, administrators, and staff, updates and corrections to the Program of Studies are prepared. Once the Program of Studies is approved by the Board of School Directors, it, along with other materials necessary for completing course scheduling, is distributed to students and parents. The documents students receive represent the culmination of the efforts of all involved in the process.

COURSE REQUEST & REGISTRATION

1. Students attend a scheduling presentation and an Elective Fair to learn about available course options.
2. Students and guardians review course descriptions and prerequisites published in the Program of Studies online during the course request period.
3. Students enter course requests for the upcoming year through the Student Portal. This is the first step in the scheduling process, and course requests are not guaranteed to be scheduled.
4. Administration will determine what classes will be offered for the following year based on student course requests, staffing availability, and master schedule limitations.
5. Counselors will meet one-on-one with students to review their preliminary schedules before finalizing schedules for the upcoming year, at which time students should resolve all remaining scheduling issues.
6. Final schedules will be released in May.

RESOLVING INEVITABLE COURSE CONFLICTS

Students may request elective courses each year based on their interests and needs. While we strive to honor first-choice electives, scheduling conflicts may require the use of alternate selections. The master schedule is developed annually to meet the needs of the greatest number of students, and a completely conflict-free schedule is not possible. Although every effort is made to minimize conflicts, there is no guarantee that all requested courses can be scheduled. When conflicts occur, counselors will review alternate options with students during individual meetings.

SCHEDULE CHANGES

Early Drop: The last day to drop a yearlong or semester course without penalty is five (5) school days following the beginning of the term.

This does not include approved moves to a different section of the same course, due to extenuating circumstances. These schedule changes can be made after the dates specified above, without penalty to the student's transcript or GPA, with the principal's approval.

Late Drop: Courses dropped after the above outlined periods will result in a Withdrawal/Failure (WF) on the student's transcript.

Please note: courses requested by a student cannot be dropped if doing so would compromise the integrity of the course.

REQUIREMENTS FOR GRADUATION

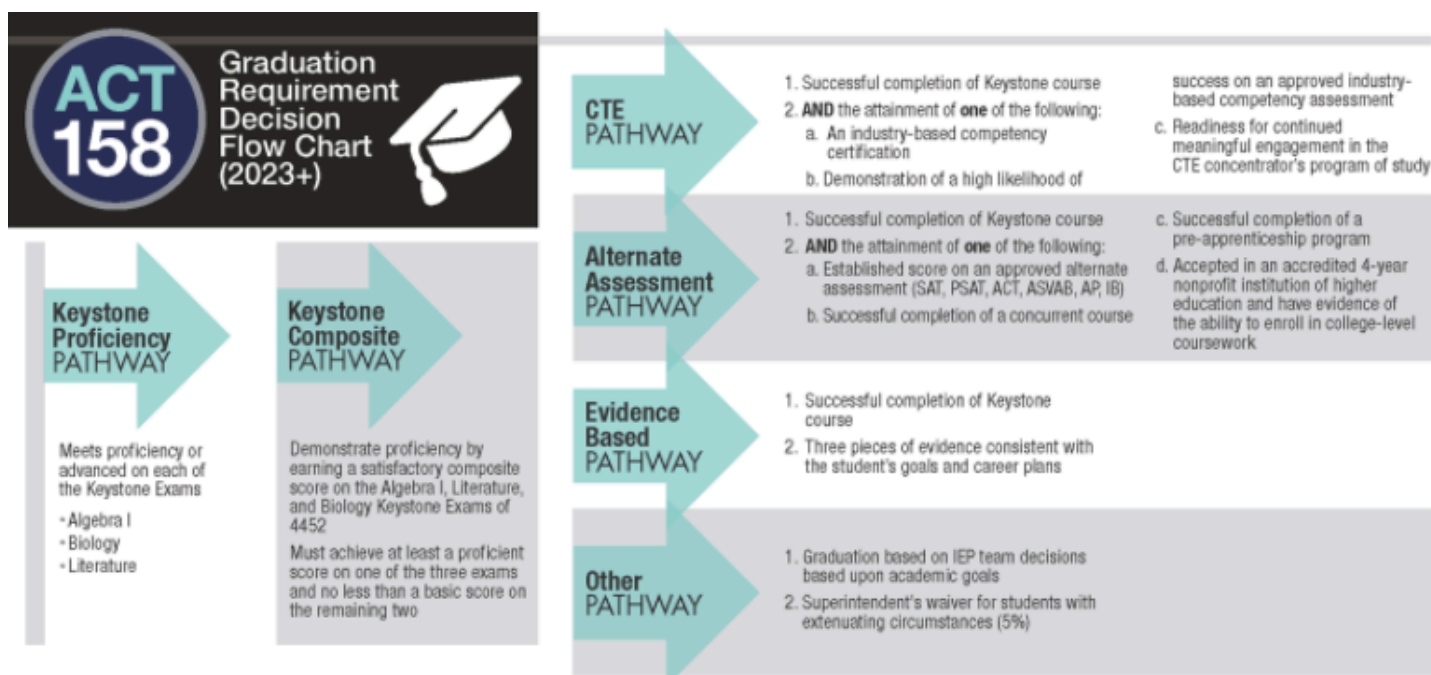
Students must earn 28 credits, including the following courses, to graduate from LTHS. Graduation requirements apply to all students unless an IEP team determines otherwise in compliance with the Every Student Succeeds Act (ESSA) and the Individuals with Disabilities Education Act (IDEA).

GRADUATION REQUIREMENTS	
Subject Area	Required # of Credits
English	4.0
Mathematics	4.0
Science	4.0
Social Studies	4.0
Physical Education/Health	1.0
Financial Literacy and Planning (required of all juniors)	1.0
Technology	1.0
Electives	9-12

GRADUATION PATHWAYS

All students are also required to meet Pennsylvania's [Act 158 High School Graduation Requirements](#) through one of five pathways. The primary pathway is attained by demonstrating proficiency on the Keystone Exams in Algebra I, Biology, and Literature. Students who do not successfully meet pathway 1 with Keystone Exam proficiency are required to complete one of four additional pathways in order to successfully meet Act 158 requirements and Pennsylvania's [Future Ready Index](#).

In the event a student does not meet pathway 1, the following are alternative pathways to meet Act 158:



Counselors and Administrators monitor students' progress and advise on other opportunities to meet this requirement, as needed.

GPA, CLASS RANK & COURSE WEIGHTS

LTHS students may earn up to eight (8) credits per year during the standard school day. All courses completed and final grades earned are recorded on a student's official transcript, along with the student's grade point average (GPA). LTHS uses a 100-point cumulative weighted average system.

LTHS offers four designated course levels: Academic, Honors, Advanced Placement (AP), and Dual Enrollment (DE). Due to the increased rigor and expectations, Honors and AP courses listed in the approved program of study, as well as DE courses, receive additional weighting in the calculation of a student's GPA.

Though rare, with administrative approval, some students may pursue academic opportunities beyond the standard eight-credit school day. These may include, but are not limited to, summer school (for original credit or credit recovery) or online coursework. While these approved courses and grades will appear on the student's transcript, they are not included in GPA calculations.

Any advanced courses taken within the eight-credit day that are not offered to all students through the approved program of study will be recorded on the transcript and included in GPA calculations; however, they will not receive additional weighting based on course level.

Final class rank is calculated at the conclusion of each school year based on a student's GPA. GPA and class rank are used to determine valedictorian and salutatorian honors, which are finalized after all senior-year grades are recorded.

The following section provides descriptions of the identified course levels.

Academic (Weight - 1.0)

Most of the coursework offered at LTHS is considered academic level. Courses that are not designated otherwise are considered Academic. Academic courses will prepare any student for a comprehensive two or four-year college program as well as any other post-secondary career focus, including serving in our nation's military.

Honors (Weight – 1.04)

Honors courses will be taught at an **accelerated pace and level**. Students can expect at least 1 hour of extra study/homework per night. Students enrolled in Honors coursework must be **organized and prepared to invest the time required to succeed**. Like LTHS's academic courses, honors courses will also prepare any student for a comprehensive two or four-year college program as well as any other post-secondary career focus.

Dual Enrollment (Weight - 1.06)

Dual Enrollment (DE) courses refer to any course taken through one of the colleges/universities with which Loyalsock Township School District has an articulation agreement. These courses are typically introductory, general education college-level courses. DE courses are available to juniors and seniors. See the Dual Enrollment section for more information on DE requirements and policies.

Advanced Placement (AP) (Weight – 1.08)

AP courses meet the College Board's curricular standards. **AP courses are the most challenging/rigorous courses** offered at LTHS. AP coursework requires students to be highly motivated, organized, and able to spend 1-2 hours on study/homework each evening. **It is highly recommended that students who choose to take AP coursework also take the requisite AP exam in May of the given school year.** *It should be noted that the school district pays the full cost of the AP exam for each student; therefore, there is no disadvantage to a student taking the exam.*

CORE COURSE SEQUENCING (BY GRADE LEVEL) AND EDUCATIONAL REQUIREMENTS

Grade 9	Grade 10	Grade 11	Grade 12
English (1.0 Credit)	English (1.0 Credit)	English (1.0 Credit)	English (1.0 Credit)
- Academic English 9 OR - Honors English 9	- Academic English 10 OR - Honors English 10 OR - AP Seminar - NOTE: Literature Keystone Exam administered in Grade 10	- Academic English 11 OR - Honors English 11 OR - AP English Literature & Comp	- College Prep English 12 OR - Honors English 12 OR - AP English Language & Comp OR/And - AP English Literature & Comp
Mathematics (1.0-2.0 Credits)	Mathematics (1.0-2.0 Credits)	Mathematics (1.0-2.0 Credits)	Mathematics (0 - 2.0 Credits)
- Algebra IA and Algebra IB OR - NOTE: Algebra I Keystone Exam administered in Grade 9	- Geometry OR - Honors Geometry - Algebra II OR - Honors Algebra II OR - Algebra II and Advanced or	- Integrated Math OR - Statistics OR - Algebra II OR - Honors Algebra II OR - Algebra II and Honors Trigonometry or	- Integrated Math OR - Statistics OR - Algebra II OR - Honors Algebra II OR

- Honors Geometry (For Keystone Algebra 8 students) OR - Geometry (For Keystone Algebra 8 students)	- Academic Trigonometry OR - Honors Algebra II and Advanced or Academic Trigonometry	Academic Trigonometry OR - Honors Algebra II and Honors Trigonometry or Academic Trigonometry OR - Advanced Trigonometry OR - Honors Calculus OR - Honors Calculus and AP Calculus AB	- Algebra II and Advanced or Academic Trigonometry OR - Honors Algebra II and Advanced or Academic Trigonometry OR - Honors Trigonometry OR - Honors Calculus OR - Honors Calculus and AP Calculus AB OR - AP Calculus BC
Social Studies (1.0 Credit)	Social Studies (1.0 Credit)	Social Studies (1.0 Credit)	Social Studies (1.0 Credit)
Modern American History	- World History OR - AP World History	Civics	4th Requirement can be met in grades 9-12. Options include: - Intro to Social Sciences - Honors Sociology - S.T.A.R Leadership - American Popular Culture - Perspectives - AP World History (if earned World History Credit in 10th grade)
Science (1.0 Credit)	Science (1.0 Credits)	Science (1.0-2.0 Credits)	Science (0- 2.0 Credits)
- Earth & Environment OR - Honors Earth & Environment	- Biology OR - Honors Biology - NOTE: Biology Keystone Exam administered in Grade 10	- Academic Chemistry OR - Honors Chemistry - AP Chemistry OR - Integrated Physical Science (IPS)	- Academic Physics OR - Honors Physics OR - Integrated Physical Science (IPS) - AP Physics
Physical Education & Health (1.0 Credits)			
- PE (0.5) - Health (0.5)			
Other LTHS Graduation Requirements (2.0 Credits)			
- Financial Literacy and Planning (1.0) - Technology (1.0)			

CAREER AND TECHNICAL EDUCATION

All students interested in participating in a Career and Technical Education program must submit an application to the respective program (i.e., Lycoming Career & Technical Center or Williamsport Area High School). Approval for these programs is based on a student's progress towards graduation requirements, attendance, discipline, and available space in each specific program.

LYCOMING CAREER AND TECHNOLOGY CENTER (LYCO CTC)

LTHS sophomores, juniors, and seniors have the opportunity to select career and technical courses at Lyco CTC as electives. These courses meet daily for three periods and will earn three (3) credits upon successful completion. All other academic courses will be scheduled at LTHS. See below for the courses that are currently offered to LTHS students.

Click [here](#) to learn more about Lyco CTC programs.

AUTOMOTIVE TECHNOLOGY:

If you are interested in cars and want to repair high-tech vehicles, take a closer look at the Auto Tech program. This program, designed for students interested in working in the automotive service industry, is certified by Automotive Service Excellence (ASE). The LycoCTC Automotive Technology Program follows the National Automotive Technicians Education Foundation (NATEF) guidelines. When you enroll in the program, you will learn about performance, computer electronics, engine, and chassis diagnoses and repair. Through this program, students may acquire a Pennsylvania Automotive State Inspection License, prepare for the Automotive Service Excellence (ASE) Certification, and complete SNAP-ON DVOM Training.

9 College Credits currently available through Luzerne County Community College Articulation Agreement

* See below for more information about all the ways to earn college credits at Lyco CTC

COMPUTER SYSTEMS TECHNOLOGY:

As a CST student, you'll dive deep into the fascinating realms of computer hardware, network technology, cybersecurity, and programming. You'll get your hands dirty building and repairing computers, setting up and securing networks, writing code, and protecting digital landscapes. But that's not all! We're not just teaching tech; we're empowering you for the future. This program offers you the opportunity to earn valuable CompTIA certifications like A+, Network+, Security+, and IT Fundamentals. These certifications will open doors to a wide range of IT career opportunities. So, let's embark on this incredible learning adventure together, where we'll equip you with the skills and knowledge needed to thrive in the dynamic tech world. Get ready to shape your future in technology with us!

7 College credits are currently available through Penn College Dual Enrollment

* See below for more information about all the ways to earn college credits at Lyco CTC.

CONSTRUCTION TECHNOLOGY:

This program provides students with the opportunity to learn skills in the construction field, including carpentry, masonry, electricity, plumbing, heating, and air conditioning. Students learn safety practices related to using hand and power tools and performing tasks in the construction industry.

9 College credits currently available through Thaddeus Stevens College of Technology Articulation Agreement

3 College credits are currently available through Penn College Dual Enrollment

* See below for more information about all the ways to earn college credits at Lyco CTC

CRIMINAL JUSTICE (LAW ENFORCEMENT):

The Criminal Justice program is available to high school students who are interested in law enforcement, corrections, or the military. Through a combination of academic-based instruction and "hands-on" experience, students will acquire the basic skills needed to succeed in a related career field. Some of the areas studied include the criminal justice system, use of force, communication and report writing, patrol functions, crimes code and vehicle code, crime scene investigation, and physical education. The Criminal Justice program helps prepare you for a career in private security, law enforcement, corrections, or the military, or for continued post-high school education.

15 College credits currently available through the Commonwealth University Articulation Agreement

12 College credits currently available through Penn College Articulation Agreement

* See below for more information about all the ways to earn college credits at Lyco CTC 2

CULINARY ARTS:

Did you ever wonder what it would be like to be a chef working in a 5-star restaurant? What about being an executive chef working for a Food Service Corporation? Our program prepares you for higher education and helps you achieve the goals you have set for yourself. Our instructor will give you a jump-start on your career goals and help you receive your ServSafe certification.

10 College credits currently available through Luzerne County Community College Articulation Agreement

* See below for more information about all the ways to earn college credits at Lyco CTC

DIESEL TECHNOLOGY:

If you are interested in diesel engines and want to work on powerful, high-torque vehicles, explore the Diesel Technology program. This program is designed for students who want to pursue careers in the diesel service and repair industry and is aligned with industry standards to ensure quality training. The Diesel Technology program follows guidelines set by the National Institute for Automotive Service Excellence (ASE). When you join this program, you will gain hands-on experience with diesel engine performance, fuel systems, electronic controls, diagnostics, and heavy-duty vehicle repair.

EARLY CHILDHOOD EDUCATION:

This program prepares students for careers and further study in early childhood education by teaching child development from conception to adolescence. Students will also learn the practical skills needed to work in licensed child-care settings. Coursework covers planning and guiding developmentally appropriate activities, guidance and discipline practices, basic health and safety, management and operation of childcare facilities, employability skills, and child behavior. Students will gain hands-on experience through observation and participation in an actual on-site preschool. This course provides a solid base for students planning to enter the fields of Occupational Child Care, Para-educator, or Elementary Education. This program is located at the Ashkar Elementary School in Hughesville.

6 College credits currently available through the Commonwealth University Articulation Agreement

9 College credits currently available through Luzerne County Community College Articulation Agreement

* See below for more information about all the ways to earn college credits at Lyco CTC

PRE-NURSING AND HEALTH SCIENCES:

Pre-Nursing & Health Sciences introduces students to the scientific principles and practical skills that underpin healthcare and nursing practice. Students will explore human anatomy and physiology, medical terminology, and basic health assessments through hands-on labs and clinical simulations. Emphasis is placed on developing critical thinking, communication, and teamwork skills essential for success in healthcare professions. Students gain exposure to real-world healthcare environments through classroom experiences and optional cooperative education placements during the senior year. This course prepares students for postsecondary study in nursing and allied health fields and offers dual enrollment credit and articulation credits through partner colleges.

7 College credits currently available through the Commonwealth University Articulation Agreement

3 College credits currently available through Penn College Articulation Agreement

3 College credits currently available through Penn College Dual Enrollment

* See below for more information about all the ways to earn college credits at Lyco CTC

WELDING TECHNOLOGY: CIP 48.0508 - (2.0 hours/day)

If you are interested in working with metal and creating strong, precise welds, consider the Welding Technology program. This program is designed for students who want to build careers in welding, fabrication, and metalworking industries. It follows industry standards to provide comprehensive, hands-on training. When you enroll in the program, you will learn various welding processes, blueprint reading, metallurgy, and safety practices. Students will gain experience with advanced welding equipment and techniques, preparing them for industry certifications such as those offered by the American Welding Society (AWS).

LYCO CTC SPECIAL PROGRAMS:

Capstone Cooperative Education: This opportunity allows eligible seniors to get on-the-job training at a co-op or internship placement directly related to their program of study at Lycoming CTC. Students must have their program instructor's recommendation to participate in this program.

***Earning College Credit in High School:** Career and Technical Education (CTE) students have several ways to get a head start on a college certificate or degree while still in high school. They can earn credit for the courses and skills they complete in their LycoCTC programs, which saves both time and money.

Dual Enrollment means taking a real college class while you're at LycoCTC. You earn both high school and college credit at the same time, at no cost to you. LycoCTC partners with Pennsylvania College of Technology for dual enrollment. Students earn credits on a Penn College transcript, and these credits sometimes transfer to other colleges.

Articulation means that LycoCTC and a particular college have an agreement, so that the college gives you credit when you complete a particular program of study at LycoCTC. Articulation is noted under each program description and is only between the listed college and LycoCTC (not transferable to another college).

SOAR (Students Occupationally and Academically Ready) is a statewide program in Pennsylvania that connects LycoCTC programs to partner colleges who opt in. SOAR credits recognize the skills you learn at LycoCTC and translate them into credits at participating colleges in PA, which gives you a head start toward your degree or certificate.

CAREER AND TECHNICAL EDUCATION AT WAHS (WAHS CTE)

LTHS sophomores, juniors, and seniors also have the opportunity to select career and technical courses at WAHS, **ONLY** if they are not available at Lyco CTC. These courses meet daily for two periods, and students will receive two (2) credits upon successful completion of these courses. All other academic classes will be scheduled at LTHS. **Students may be required to provide their own transportation in order to attend WAHS.** Click [here](#) to learn more about WAHS CTE Programs.

DUAL ENROLLMENT

Dual enrollment allows students to take college-level coursework while still attending high school. All college courses and grades will be included on the high school transcript. They will be weighted according to the academic weighting scale above and will be calculated into the student's high school GPA and class rank.

Juniors and Seniors have the opportunity to earn up to 4 college credits each school year. For each college course of three or more college credits, students will earn one (1) LTHS credit. It is the student's responsibility to complete

the enrollment process with the partnering college and confirm the transferability of credits. Final transcripts must be requested by the student from the partnering college or university.

To be eligible, a Junior or Senior must meet the following requirements:

1. Have a cumulative weighted average of **85% or better and/or meet the requirements of the partnering institution.**
2. Be in good standing with attendance at LTHS.
3. Have room in their schedule to take a DE course(s).
4. Must be able to provide their own transportation, when applicable.

Note: Principal discretion can be used for any individual extenuating circumstances.

For more information on dual enrollment, including information specific to our partnering college, visit the following page on the high school website [here](#).

In addition to the dual enrollment options above, several of our advanced courses at LTHS also afford the opportunity for dual enrollment credit through Keystone College AP Chemistry, AP Physics, and AP Calculus AB & BC. The process for obtaining college credit for these courses will be shared directly with students enrolled in an eligible course.

NCAA COURSE REGULATIONS

Attention student-athletes and parents: If participation in college athletics is a future consideration, it is important for you to read and understand the following information. If you have any questions about the academic standards, you should contact a high school counselor or register on the website.

In order to participate as a college freshman in Division I or II athletics, the NCAA Initial-Eligibility Center must certify a student. To do this, a student must register with the NCAA center at web3.ncaa.org/ecwr3/.

Although a student does not begin the certification process before the end of the junior year in high school, he/she begins meeting the eligibility requirements in ninth grade through the courses selected and the grades achieved. Thus, course selection is extremely important. To be certified by the Center, you must meet the following requirements:

1. Graduated from high school.
2. **Division I:** The minimum grade-point average in the 16 core courses and required ACT or SAT score vary according to the Initial-Eligibility Index. (See your high school counselor for more information) The minimum grade point average is based on a core curriculum of at least 16 academic courses successfully completed during grades nine (9) through twelve (12). Only courses that satisfy the NCAA definition of a core course can be used to calculate the NCAA GPA. LTHS courses meeting these requirements are indicated in the course descriptions below.
3. **Division II:** Earn a grade-point average of at least 2.2 from a core curriculum in at least 16 academic courses, which were successfully completed during grades nine (9) through twelve (12). Only courses that satisfy the NCAA definition of a core course can be used to calculate the NCAA GPA. LTHS courses meeting these requirements are indicated in the course descriptions below.

COURSES BY DEPARTMENT

ART

Course title	Weight	Open to Grades	Prerequisites	Credit
3D Art	1.0	9-12	None	1
Drawing & Painting I	1.0	9-12	None	1
Drawing & Painting II	1.0	9-12	Drawing & Painting I	1
Honors Drawing & Painting III	1.04	10-12	95% or higher in Drawing & Painting II AND portfolio review	1
Ceramics & Glass I	1.0	9-12	None	1
Honors Ceramics & Glass II	1.04	10-12	95% or higher in Ceramics & Glass I	1
Photography	1.0	9-12	None	1
Honors Portfolio Development	1.04	11-12	Those needing a portfolio for College Admissions AND a portfolio review	1
Fiber Arts	1.0	9-12	None	1

DRAWING & PAINTING I

1.0 Credit

Foundation of Visual Arts is an introductory course that introduces students to various 2-D media. The principles of art and design are stressed with each project. Students will learn techniques in traditional and Contemporary drawing and painting media, which will then be applied to create original pieces of artwork.

DRAWING AND PAINTING II

1.0 Credit

This is an intermediate course for those students who wish to improve their drawing skills and explore a variety of painting techniques and styles. An emphasis will be placed on the rules of design, composition, and student imagination. Students will explore advanced techniques covered in Drawing & Painting I.

HONORS DRAWING AND PAINTING III

1.0 Credit

This is an advanced course for those students who wish to further improve their drawing skills and explore a variety of painting techniques and styles. An emphasis will be placed on the rules of design, composition, and student imagination. Students will explore advanced techniques covered in Drawing & Painting I and II.

HONORS PORTFOLIO DEVELOPMENT

1.0 Credit

For students pursuing a degree in Art in their post-secondary studies, the Portfolio Development course helps them strengthen both the inventive and expressive aspects of their artistic portfolio. Students develop skills and work habits that will build confidence in their artistic development. Students will gain a better sense of their strengths as artists. The Portfolio Development course offers insight into building a portfolio for higher education and the art school admissions process.

FIBER ARTS

1.0 Credit

This course will give students an overview of fiber work using natural and man-made materials. Using fiber and textile media and techniques, students will create works that focus on both two and three-dimensional artworks. Fiber and textile processes may include: weaving, fabric printing, papermaking, embroidery, batik, and mixed media. Cultural, historical, and aesthetic aspects of these processes will be incorporated, as will experiences in art criticism. Emphasis will be placed on creative design concepts, craftsmanship, and skillful and imaginative use of materials.

PHOTOGRAPHY

1.0 Credit

Photography will be an exploration of the art and science of photography. This course will look at the many facets of photography from art, science, commercial, fashion, portrait, documentary, and journalistic approaches. We will focus on the capturing, adjustment, and alteration of digitally captured images. The principles of art and design are stressed with each project. Students will be evaluated on technique, creativity, effort, and critical responses.

3D ART

1.0 Credit

Open to grades 9-12, 3D Art is an introductory course in which students create various 3D artworks. Students develop original art by considering the length, width, and depth of a 3D piece. This class focuses on working with a variety of materials, including found objects, paper, clay, foam, plaster, and repurposed materials.

CERAMICS AND GLASS I

1.0 Credit

Ceramics and Glass is an intermediate course that focuses on the transformation of raw materials through heating into functional and sculptural forms. The principles of design, ergonomics, and utility are stressed with each project. This course is excellent for visual and kinetic learners who are good with their hands and are not afraid to get dirty. Sample projects include, but are not limited to, cups/tumblers, tea bowls, mugs, tiles, stained glass, and fused glass. Long and/or fake fingernails are not permitted, and hair must be pulled back during class.

HONORS CERAMICS AND GLASS II

1.0 Credit

This is an advanced art course for those students who wish to seriously explore hand-built and wheel-thrown forms. Students will learn to create various sculptures, including, but not limited to, boxes, roasters, teapots, and human and animal forms. They will also learn to create vases, perforated forms, covered jars, pitchers, goblets, teapots, and other utilitarian forms. Long and/or fake fingernails are not permitted, and hair must be pulled back during class.

BUSINESS, COMPUTER AND INFORMATION TECHNOLOGY

Course title	Weight	Open to Grades	Prerequisites	Credit
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Accounting I	1.0	9-12	None	1
Accounting II	1.0	10-12	75% or higher in Accounting I	1
Financial Literacy and Planning	1.0	11-12	None	1
Marketing I	1.0	9-12	None	1
Marketing II	1.0	10-12	Marketing I	1
Introduction to Business	1.0	9-12	None	1
Entrepreneurship	1.0	9-12	None	1
Digital Information Technology I*	1.0	9-12	None	1
Digital Information Technology II*	1.0	9-12	Digital Information Technology I OR teacher approval	1
Computer Science I *	1.0	9-12	None	1
Computer Science II	1.0	10-12	Computer Science I	1
Honors Computer Science III	1.04	11-12	90% or higher in Computer Science II	1
Video Game Design*	1.0	9-12	None	1
Web Design*	1.0	9-12	None	1
AP Business with Personal Finance	1.08	9-12	None	1

*** TECHNOLOGY REQUIREMENT OPTIONS**

DIGITAL INFORMATION TECHNOLOGY I

1.0 Credit

Digital Information and Technology I is a hands-on course that will cover basic and intermediate Microsoft Office operations. Microsoft software covered will include Word, Excel, and PowerPoint. In Microsoft Word, students will explore basic word-processing features and learn to properly format letters, tables, and various reports. Within Microsoft Excel, students will enter data, edit spreadsheets, format spreadsheets, and work with Excel formulas. In Microsoft PowerPoint, students will create slide decks, edit design elements within them, add transitions, and create a PowerPoint presentation to present to their class. In addition to Microsoft Office, students will also explore computer hardware, security, networking, and digital communications.

DIGITAL INFORMATION TECHNOLOGY II

1.0 Credit

In this hands-on intermediate/advanced course, students will go beyond the basic operations of commonly used applications (Microsoft Office, iWork, Google Workspace). This course will build on students' prior knowledge and experience with personal use of computers/technology, and will include various business and industrial uses at a higher level to prepare for college or the workforce. Students will continue to examine the social and ethical implications of computers in our society, as well as current trends in computer security and digital citizenship.

VIDEO GAME DESIGN

1.0 Credit

The Video Game Design in Unity course teaches the fundamentals of designing a video game using the most widely used and preferred game development engine in the world. The intent of this course is to prepare high school students with industry-relevant skills for the workplace and higher education environments. Students illustrate comprehension of game design skills and apply their knowledge using the Unity game engine. Students will create their games and configure scripts using C# in Visual Studio and the Unity game engine. By the end of this course, students will understand the design planning process, be knowledgeable about industry-related careers, and be able to navigate the Unity environment to create 3D games.

WEB DESIGN

1.0 Credit

In this project-based course, students will learn HTML and CSS and create their own live homepages as portfolios of their work. By the end of this course, students will be able to explain how web pages are developed and viewed on the Internet, analyze and fix errors in existing websites, and create their very own multi-page websites. Students will learn the foundations of user interface design, rapid prototyping, and user testing, and will work together to create professional, mobile-responsive websites. In today's world, web pages are the most common medium for sharing ideas and information. Learning to design websites is an incredibly useful skill for any career path.

ENTREPRENEURSHIP

1.0 Credit

Entrepreneurship focuses on recognizing a business opportunity, starting a business, and operating, managing, and maintaining it. Students will be exposed to the development of critical thinking, problem-solving, and innovation in this course, as they will either be business owners or individuals working in a competitive job market in the future. In the United States, small businesses make up close to 90% of all businesses. Integration of accounting, finance, marketing, business management, legal, and economic environments will be developed throughout projects in this course. Students will develop a business plan that includes structuring the organization, financing it, and managing information, operations, marketing, and human resources. Through various projects, team-building activities, and lessons, students will engage in the creation and management of a business and in the challenges of being a small business owner. Various technologies will be used to expose students to resources and applications of business principles for starting, operating, and maintaining a business. This course enhances professional communication skills and practices, problem-solving, understanding of ethical and legal issues, and the impact of effective presentation skills, preparing students to be college- and career-ready. Employability skills are integrated into activities, tasks, and projects throughout the course standards to demonstrate the skills required by business and industry.

ACCOUNTING I

1.0 Credit

Accounting I provides a valuable skill for all students who are college-bound, entering the field of self-employment, or seeking employment in the business world. Students are encouraged to take this course if they plan to take the advanced Accounting course. Students will learn accounting applications for a service business and a merchandising business. Emphasis is on the basic principles, concepts, and procedures of accounting, ensuring all students have the maximum opportunity when entering the world of business. While following GAAP (Generally Accepted Accounting Procedures), areas of concentration include:

- Completion of the accounting cycle using double-entry accounting for a sole proprietorship
- Reconciling bank statements
- Money and banking applications
- Preparation of financial reports
- Preparation of a payroll

ACCOUNTING II

1.0 Credit

Accounting II is a recommended subject for all students who have satisfactorily completed and earned 75 or above in Accounting I. Offered as an Independent Study, this course provides a brief review of Accounting I concepts and procedures. These concepts include the accounting cycle for a merchandising business, payroll preparation, money and banking applications, and financial statements. After a review of concepts learned in Accounting I this course will concentrate on (1) analyzing problems involving partnership and departmental accounting applications, (2) analyzing problems using automated accounting software, (3) utilizing the computer for weekly corporate news reports and preparation of summary analysis, (4) preparing Federal and State income tax forms, and (5) analyzing corporate annual reports.

FINANCIAL LITERACY AND PLANNING

1.0 Credit

This is a mandatory capstone course for all students. This course will prepare students for success after graduation. Students will explore and thoroughly plan and prepare for life after high school. The law portion of the course will provide an in-depth and extensive study in consumer law, civil law, criminal law, and court structure, rights/duties of minors and parents, explore real-world court cases, and attend the Lycoming County Courthouse to see a trial. The investment portion of the course will emphasize financial planning, develop an understanding of retirement accounts, stocks, bonds, and mutual funds, and provide students with an attainable understanding of how they can invest. The financial portion of the course will cover financial responsibility, budgets, loans, credit, and insurance, and provide students with the knowledge needed for financial success in their future. In the education section, students will participate in college preparation, including researching appropriate colleges and majors, completing the Common Application, exploring the FAFSA, applying for scholarships, finalizing resumes, and participating in mock interviews. Students whose goals do not include a university pathway will conduct similar work to explore branches of the military or career fields that do not require postsecondary education. This course is designed to provide students with practical knowledge that will not only benefit them in everyday life situations but also provide a valuable foundation for their future. May fulfill a math credit requirement towards graduation, with administration approval. **This course is required for graduation.**

INTRODUCTION TO BUSINESS

1.0 Credit

Introduction to Business introduces students to the world of business and prepares them for the economic roles of consumer, worker, and citizen. Some of the topics covered include: economic systems, decision-making, resources and supply/demand, entrepreneurship, the global economy, social responsibility, and finance. This course will also serve as a background for other business courses offered in high school and college, assist you with consumer decision-making, prepare you for future employment, and help you effectively perform your responsibilities as a citizen.

MARKETING I

1.0 Credit

Marketing will focus on providing students with a foundation in basic marketing principles. Students will discover how businesses convince customers to buy their products. This knowledge is beneficial not only for someone selling goods and services, but also for the everyday consumer to understand how they are being targeted by companies. Students will explore topics such as the marketing concept, global marketplace, technology and marketing, advertising, product branding, social media marketing, and marketing plans within various industries.

MARKETING II

1.0 Credit

In Marketing II, students will apply the content learned in Marketing I through a fully hands-on, project-based approach. Students will not only study marketing in the industry but also have the opportunity to create their own

marketing content in groups and present it to the class. They will use their knowledge of consumer behavior, product management, pricing, advertising, social media marketing, and more to successfully manage our school store, the Maroon Market. Students will be responsible for all the behind-the-scenes work required to operate the Maroon Market. Some of the duties will include deciding what merchandise to sell, pricing merchandise, creating merchandise displays, creating social media campaigns, handling money, and restocking products. Students must be proficient in and will use Google Docs, Google Sheets, Gmail, Canva, and other software applications to conduct the business of the Maroon Market. Any student in Marketing II is required to be a member of Future Business Leaders of America (FBLA) due to the direct partnership of FBLA and the Maroon Market.

COMPUTER SCIENCE I

1.0 Credit

This introduction to computer science course covers the foundations of computer science and basic programming in JavaScript, with an emphasis on developing logical thinking and problem-solving skills. The course covers a broad range of foundational topics, including programming, algorithms, the Internet, big data, digital privacy and security, and the societal impacts of computing. At the completion of Introduction to Computer Science, students will have learned material equivalent to a college introductory semester course in Computer Science and will be able to program in JavaScript.

COMPUTER SCIENCE II

1.0 Credit

Computer Science II is a continuation of concepts presented in Introduction to Computer Science. It is a rigorous, hands-on, project-based course that will allow students to continue building their foundations in modern computing and programming. Students will have an opportunity to select the type of programming language they would like to study, to build on their knowledge and understanding of current programming concepts. The skills learned in this course will adequately prepare students with the knowledge and skills to live and meaningfully participate in our increasingly digital society, economy, and culture.

HONORS COMPUTER SCIENCE III

1.0 Credit

Computer Science III is a capstone for the computer science courses. It is a rigorous, hands-on, project-based course that will allow students to continue building their foundations in modern computing and programming. Students will have the opportunity to select the programming language or computer science discipline they would like to study. This will build on their knowledge and understanding of current programming concepts. Reflection and application will be the key focuses in this capstone course. Students will conclude the course by completing a detailed, comprehensive capstone on a specific computer science topic and a reflection on how the skills and knowledge they have learned will apply to their future career pathway. (Independent Study optional)

AP BUSINESS WITH PERSONAL FINANCE



AP Business with Personal Finance is a yearlong high school business and personal finance course that aligns closely with a college-level introduction to business course. Students explore the business disciplines of entrepreneurship, marketing, finance, accounting, and management through real-world business applications, case studies, and project-based learning. In addition, students learn and apply all the National Standards for Personal Financial Education created by the Council for Economic Education and the Jump\$tart Coalition for Personal Financial Literacy.

CAREER READINESS

Course title	Weight	Open to Grades	Prerequisites	Credit
Internship	1.0	12	Progress towards graduation confirmed by the counselor	1

INTERNSHIP

1.0 Credit

The internship program is structured as a course, requiring students to complete a minimum of 120 hours of combined instructional and workplace placement hours. The course begins with an introduction of in-class instruction, followed by a placement in a local business or organization.

Students must meet graduation requirements and adhere to program expectations outlined in the student code of conduct. They are required to maintain professionalism, attend all scheduled activities, and complete assigned tasks.

1. Uphold standards noted in the Code of Expectations for Student Interns
2. Active Participation: Student interns are expected to actively engage in both school and workplace experiences.
3. Development of Learning Objectives: Interns are required to develop meaningful learning objectives objectives in collaboration with their teacher-coordinators and worksite supervisors.
4. Participation in Reflection Activities: Interns should engage in reflection activities to process and articulate their learning experiences.
5. Orientation to the Workplace: Students must undergo thorough orientation to the world of work and their specific workplace environment, ensuring they understand workplace expectations and safety protocols.

Students will be required to apply. Please see the [Internship Manual](#) for more information on goals, objectives, and course requirements.

ENGLISH

Four credits in English are required for graduation. One credit must be taken at each grade level, nine through twelve (9-12). Students are encouraged to consult their current English teacher for guidance in selecting the appropriate course and level for next year. Except in rare cases, such as remediation or AP, students may not accumulate more than one (1) English credit per year. Students repeating English classes must enroll in the same or a lower level of English when rescheduling for remediation.

Course title	Weight	Open to Grades	Prerequisites	Credit
Academic English 9	1.0	9	None	1
Honors English 9	1.04	9	90% average or above in 8th-grade reading and 8th-grade language arts, satisfactory completion of a summer reading assignment.	1
Academic English 10	1.0	10	Successful completion of English 9	1

Honors English 10	1.04	10	90% average or above in Academic English 9, or 80% average or above in Honors English 9	1
AP Seminar	1.08	10	90% average or above in Honors English 9 and an English teacher recommendation, satisfactory completion of a summer reading assignment	1
Academic English 11	1.0	11	Successful completion of English 10	1
Honors English 11	1.04	11	90% average or above in Academic English 10, or 80% average or above in Honors English 10	1
AP English Literature and Composition	1.08	11-12	90% average or above in an English 10 and/or 11 course, and no previous high school English failures, satisfactory completion of a summer reading assignment	1
Academic English 12	1.0	12	Successful completion of English 11	1
AP English Language and Composition	1.08	12	90% average or above in an English 11 course, and no previous high school English failures, satisfactory completion of a summer reading assignment	1
Honors English 12	1.04	12	90% average or above in Academic English 11, or 80% average or above in Honors English 11	1
Yearbook and Media Journalism I	1.0	9-12	Completion of an application assignment and satisfactory attendance and discipline records	1
Yearbook and Media Journalism II	1.0	10-12	Completion of Yearbook and Media Journalism I with 80% average or above	1
Yearbook and Media Journalism III	1.0	11-12	Completion of Yearbook and Media Journalism II with 80% average or above	1
Yearbook and Media Journalism IV	1.0	12	Completion of Yearbook and Media Journalism III with 80% average or above	1
Creative Writing I	1.0	9-12	None	1
Creative Writing II	1.0	10-12	Completion of Creative Writing I with 80% average or above	1
Speech & Drama	1.0	9-12	None	1

ACADEMIC ENGLISH 9

1.0 Credit

Ninth-grade English class provides a foundation for language-arts learning that students can build upon throughout the rest of their high school years. This is a standards-based course designed to build reading, writing, and vocabulary skills. Reading will focus on comprehension, vocabulary, inference, elements of literature, and literary devices (such as simile and allusion). Students will read a selection of short stories, novels, poetry, and a play by William Shakespeare. Mechanics of grammar will be reviewed -- including capitalization, run-ons, and fragments -- and writing will be studied at the paragraph and essay level. There will be regular vocabulary practice and quizzes through Membean.com. There will also be a brief unit on using Latin prefixes.

HONORS ENGLISH 9

1.0 Credit

This is an intensive reading and writing course. In addition to providing a foundation for future English classes, this course prepares students for honors work in higher grades and for high-level work in college. In reading stories, novels, and plays, students will be expected to demonstrate thorough comprehension and to use textual evidence to support assertions about the author's purpose. We will review grammar, including capitalization and run-ons, and will work on writing at the paragraph and essay level. Honors students will cover a variety of extended material, collaborate, and be expected to work at a much quicker pace than academic students. Honors students will be required to complete a summer reading assignment and take an assessment within the first week of class.

ACADEMIC ENGLISH 10

1.0 Credit

Academic English 10 is a standards-based course designed to enhance the skills necessary for success in a career, college, or any postsecondary training the student chooses to pursue. The year contains a review of the mechanics of the language—capitalization, punctuation, usage, and grammar. These will be addressed through the student's writing and in as-needed mini-lessons. In literature, students study poetry, short stories, the novel, and drama as part of theme-based units. Specifically, students study the themes of The American Dream, Moral Struggle, Coming-of-Age, and Innocence to Experience. In addition, students read four independent novels throughout the semester. During this semester, students are required to take weekly vocabulary quizzes using Membean, an online, interactive program. Students will also be exposed to Latin, with weekly cumulative quizzes. Vocabulary and Latin lessons are designed to improve students' vocabulary skills, with the intent of improving SAT scores and reading comprehension. Students will complete multiple writing assignments, ranging from speeches to analytical essays, throughout this course. Students will also participate in Keystone Exam-targeted preparation designed to ensure their success on the Keystone Exam. Students will also engage in weekly writing assignments, ranging from creative to research-based.

HONORS ENGLISH 10

1.0 Credit

Honors English 10 introduces British literature beginning with the Anglo-Saxon period and *Beowulf* and progressing through the Age of Reason in England. This course addresses the changing religious and cultural values in England, as evidenced in the literature. Key literary works/authors will include *Beowulf*, *The Canterbury Tales*, the Arthurian Legend, and Shakespeare (drama and poetry). In addition to an intensive literary focus, students will begin a two-year study of Latin, combined with weekly Membean.com vocabulary, both designed to help prepare students for the Keystone Exam, the PSAT, and the SAT. Students will also work extensively with both writing and speaking. Writings will include creative, analytical, and research-based compositions. Speech topics will also range from creative assignments to research-based topics. Honors English 10 and Honors English 11 are sequential courses that cover the beginnings of British and American literature and progress through the modern period. The English department recommends that Honors students take both courses in order to truly appreciate the literature of the two countries.

AP SEMINAR

1.0 Credit

AP Seminar is a college-level course that will help students develop skills of collaboration, research, writing, and presentation. This course will allow students to investigate real-world topics and issues by analyzing a variety of perspectives. Using an inquiry framework, students will practice reading and analyzing novels, articles, research studies, and foundational literary and philosophical texts; listening to and viewing speeches, broadcasts, and personal accounts; and experiencing artistic works and performances. Students will learn to synthesize

information from multiple sources, develop their own perspectives in written essays, and design and deliver oral and visual presentations, both individually and as part of a team. Ultimately, students will learn to analyze and evaluate information with accuracy and precision in order to craft and communicate evidence-based arguments. Students who sign up for this course must see the instructor before the end of the freshman year to receive the required summer assignment.

Note: Completion of this course fulfills a 10th-grade English requirement; this course is not typically eligible for college credit. AP Seminar focuses on skills needed in almost every college major and should be viewed as a booster of subsequent AP scores and an indicator of college readiness on a student's transcript.

ACADEMIC ENGLISH 11



1.0 Credit

Academic English 11 is a comprehensive program of English literature, Membean, Latin vocabulary and grammar, formal composition, and a required research project. The study of literary works is theme-based, focusing on survival, identity, and bias. Students will have exposure to fiction and non-fiction works, ranging from Shakespeare to more contemporary novels, poems, and podcasts. Through the writing process, elements of grammar, usage, and punctuation will be covered on an individual, as-needed basis. The writing program encourages students to write effectively about personal experiences and critically about literature. Academic English 11 also develops college and career readiness through extensive career exploration, including an ASVAB reflection and independent research via the I-Search essay.

HONORS ENGLISH 11



1.0 Credit

Honors English 11 continues where Honors English 10 ended. Literature will resume with the Age of Reason in England and America and move into the modern era. Key authors include Shakespeare, the Romantic Poets, the Modernists, and the Harlem Renaissance authors. Students will continue their study of Latin and Membean vocabulary and will improve their public speaking skills through various presentations and speeches. This is a writing-intensive course in which students write creative, analytical, and research-based compositions. Honors English 11 also develops college and career readiness through extensive career exploration, including an ASVAB reflection and independent research via the I-Search essay.

AP LITERATURE AND COMPOSITION



1.0 Credit

AP English Literature and Composition is a college-level reading and writing course in which students will examine the search for life's meaning in a variety of literary works from all eras, spanning the classical period to the present day. This will include short stories, poems, novels, memoirs, theatrical plays, and selected films. Students will read approximately 15 major works, answer complex analytical questions about the reading, participate in extensive discussions, give individual and group presentations, and complete numerous in-class writing assignments. This course will also prepare students for the College Board's Advanced Placement Examination in Literature and Composition through multiple-choice practice tests, in-class discussion, timed writings, and course-specific vocabulary lists. Students earning a score of "3" or higher may qualify for up to one year's credit in English and/or exemption from freshman English in college. Students who sign up for this course must see the instructor before the end of sophomore/junior year to receive the required summer assignment. Completion of this course fulfills an 11th or 12th-grade English requirement.

ACADEMIC ENGLISH 12



1.0 Credit

Academic English 12 is a comprehensive reading and writing course in which students will examine a variety of poems, short stories, novels, plays, and nonfiction materials. Through class discussion and personal reflection, students will respond critically, personally, and collaboratively to a variety of archetypal themes, examining storytelling and its connection to human nature across cultures and time periods. Comprehensive units on Greek mythology and theater, Shakespearean tragedy, and media literacy will be studied. Connections will be drawn between current events and the literature being read, and students will research a variety of issues and ideas to supplement assigned readings. As a capstone experience, students will write and deliver a personal legacy speech. In addition, students will expand their vocabulary through Membean and Greek root study, complete personal essays, and explore a variety of ways research and language are used in professional practice. Methods of assessment include, but are not limited to, projects, writings, tests, quizzes, presentations, and journals.

HONORS ENGLISH 12



1.0 Credit

The course comprises various thematic units, including archetypes and storytelling, Greek mythology, Shakespearean tragedy, and media literacy, while adding a focus on satire, allegory, rhetoric, and analyzing nonfiction texts. Students will explore storytelling forms and meaning across various cultures and time periods through research and comparative analysis as they move through our fiction units, and will shift to a focus on nonfiction texts, current media, and college-preparatory writing in the second half of the semester. Students will continue to use our self-paced vocabulary platform, Membean, while learning about Greek roots as a word-decoding strategy. Students will also complete a Legacy Speech as a capstone project for the course.

AP LANGUAGE AND COMPOSITION



1.0 Credit

AP English Language and Composition is a college-level reading and writing course that engages students in becoming skilled readers of prose written in a variety of rhetorical contexts, and in becoming skilled writers who compose for a variety of purposes. The emphasis on reading and writing will cause students to become aware of the interactions among a writer, his/her purpose, the subject, and audience expectations. Students will also gain an understanding of how genre conventions, writing style, and the resources of language contribute to the effectiveness and style of writing.

CREATIVE WRITING I



1.0 Credit

This elective class is designed for anyone who loves to read and write. In this class, students will learn to identify and use elements that characterize good writing and storytelling. You will write narratives, news articles, poetry, and pieces within several fiction subgenres (fairy tales, gothic fiction, dystopia, modern fiction, and more). You will also keep an online blog and a daily writing journal. This is a writing-intensive course! That means that you can expect to write 1-2 pages PER DAY at a minimum.

CREATIVE WRITING II



1.0 Credit

This elective class is designed for any student who has completed Creative Writing 1 and wants to deepen their creative abilities while taking on a leadership role. Students in this class will continue to improve their writing skills while exploring new genres and techniques. They will have the opportunity to assume leadership positions as peer mentors (mentors must check in weekly with Creative Writing 1 mentees). Creative Writing 2 students will work on peer editing, genre/structure modeling, and portfolio development, including a self-analysis of writing,

blog posts, and mentorship. Additionally, when working on the literary magazine, Creative Writing 2 students will take on active leadership roles and will be responsible for managing and editing. Just like Creative Writing 1, this is a writing-intensive course! That means that you can expect to write 1-2 pages PER DAY at a minimum.

SPEECH & DRAMA



1.0 Credit

This elective is meant for those who want to sharpen their overall communication and performance skills. Speech & Drama is heavily rooted in class participation and learning how to put yourself out there. The course begins with an overview of speaking, communication styles and techniques, and just overall getting comfortable with speaking with and in front of others. Speeches, presentations, and debates will help improve public speaking skills. The second part of the course focuses on theater, including the history and analysis of plays, stage terminology, and acting techniques. This part of the course culminates with the full process of casting, preparing, and performing a one-act play.

YEARBOOK AND MEDIA JOURNALISM I

1.0 Credit

Yearbook and Media Journalism is designed to offer students (grades 9-11) an experience in photography, graphic design, journalism, technology integration, and business management. Students will explore the art of storytelling without words through photography and photojournalism. Likewise, students will uncover the elements of journalistic writing by developing an understanding of reporting, writing, editing, publishing, and promoting news while publishing the APALACO yearbook. While developing as leaders in a global community, students will embrace the challenge of learning more about the use of 21st century technology and tools for publication. Lastly, students will manage communication and networking, timelines and deadlines, advertisements and budgets, and continue striving to become forward-thinking problem-solvers. Level I staff members should plan to attend an extracurricular event for photography coverage each month and to contribute to business incentives each marking period. Staff members should budget approximately two additional hours of work time outside the typical school day each marking period.

YEARBOOK AND MEDIA JOURNALISM II

1.0 Credit

Yearbook & Media Journalism II is designed as a year-long course to offer students (primarily grade 10 and 11) an experience in photography, journalism, technology integration, and business management. The design and publication of the APALACO yearbook is the primary responsibility of level II students. Students will uncover the elements of journalistic writing by offering readers a look into the greater Williamsport area through the inclusion of feature articles and yearbook copy for assigned sections. While developing as leaders in a global community, students will embrace the challenge of learning more about the use of 21st-century technology and publishing tools. Lastly, students will manage communication and networking, timelines and deadlines, advertisements and budgets, and continue striving to become forward-thinking problem-solvers. Level II staff members have the opportunity to assume leadership positions as section editors. Responsibilities also include: covering school events, completing business incentives, and keeping a portfolio of his/her work, including a self-analysis of writing, design, and involvement. Students are responsible for ensuring fact/source credibility, peer editing, and motivating/managing section staff to meet deadlines.

YEARBOOK AND MEDIA JOURNALISM III/IV

1.0 Credit

Yearbook & Media Journalism III/IV is designed as a year-long course to offer students (primarily grade 12) an experience in photography, journalism, technology integration, and business management. Level III/IV staff members will assume the role of team leader and/or section editor. The layout and design of the APALACO

yearbook is the primary responsibility of editors. It is the responsibility of level III students to initiate communication and networking, set staff timelines and deadlines, implement advertisements and budgets, and mentor other staff members with task completion and problem-solving. Responsibilities also include covering school events, attending editor meetings, planning weekly staff responsibilities, and maintaining a portfolio of his/her work and progress. Level III/IV leaders and editors will also be responsible for planning and facilitating the summer journalism workshop.

NOTE: Yearbook & Media I, II, III, & IV sections all meet during the same period in the same classroom.

MATHEMATICS

Four credits in Mathematics are required for graduation, including completion of Algebra and 1 credit in Geometry.

Course title	Weight	Open to Grades	Prerequisites	Credit
Algebra IA	1.0	9	Successful completion of Math 8	1
Algebra IB	1.0	9	Successful completion of Algebra 1A	1
Geometry	1.0	9-11	Successful completion of Algebra IB or Keystone Algebra 8	1
Honors Geometry	1.04	9-10	Successful completion of Keystone Algebra 8 with a grade of 80% or better	1
Integrated Math	1.0	10-12	Successful completion of Algebra IB OR Keystone Algebra 8 AND Successful completion of Geometry OR Honors Geometry	1
Statistics	1.0	11-12	Successful completion of Algebra IB OR Keystone Algebra 8 AND successful completion of Geometry OR Honors Geometry	1
Algebra II	1.0	10-12	Successful completion of Algebra 1A AND Algebra IB, both with an 80% or better OR Keystone Algebra 8 AND Successful completion of Geometry with an 80% or better, Honors Geometry, OR Successful completion of Integrated Math	1
Honors Algebra II	1.04	10-12	Successful completion of Algebra IB with a 90% or better OR Keystone Algebra 8 with an 80% or better AND Successful completion of Geometry with a 90% or better OR Honors Geometry with an 80% or better	1
Honors Trigonometry	1.04	10-12	Successful completion of Algebra II with a 90% or better OR Honors Algebra II with an 80% or better	1
Academic Trigonometry	1.0	10-12	Successful completion of Algebra II with an 80% or better OR successful completion of Honors Algebra II	1
Honors Calculus	1.04	11-12	Successful completion of Honors Trigonometry with an 80% or better OR with teacher recommendation.	1

AP Calculus AB	1.08	11-12	Successful completion of Honors Calculus with a 90% or better	1
AP Calculus BC	1.08	11-12	Successful completion of AP Calculus AB with 80% or better	1

ALGEBRA 1A

1.0 Credit

Algebra 1A continues the algebraic concepts learned in 8th-grade mathematics. Topics include solving linear equations and inequalities; graphing linear equations and inequalities; functions and their absolute-value equations and inequalities; systems of equations and inequalities; exponents; polynomials; applications; and reasoning.

ALGEBRA 1B



1.0 Credit

Algebra 1B reviews and extends the concepts of Algebra 1A. The concept of the real number system is extended to include rational, irrational, real, and complex numbers. Students continue to learn the techniques and applications (models) of a variety of topics, including factoring, simplifying radicals and rational expressions, solving rational equations, systems of equations and inequalities, including linear programming, a review and extension of probability and statistics, and arithmetic and geometric sequences and series, and basic quadratic equations.

GEOMETRY



1.0 Credit

The principal aim in the study of Geometry is to develop and apply the properties of points, lines, and planes and the figures they form, properties of circles, and right triangle trigonometry. The relationships of triangles, quadrilaterals, and other polygons are extended to applications of area and volume. Inductive and deductive reasoning are stressed throughout the course.

HONORS GEOMETRY



1.0 Credit

This honors-level course will provide a faster-paced, deeper study of the same content offered in Geometry, including developing and applying the properties of points, lines, and planes and the figures they form. The relationships of triangles, quadrilaterals, and other polygons are extended to applications of area and volume. Inductive and deductive reasoning are stressed throughout the course. This honors-level course will also provide more rigorous applications of Geometry to enhance critical thinking and problem-solving.

INTEGRATED MATH



1.0 Credit

Integrated Mathematics is designed to engage students in understanding Algebraic and Trigonometric concepts in both simple and advanced real-world contexts. At the end of this course, students will have the skills and abilities necessary for success in future math courses, standardized tests, and college placement exams.

STATISTICS



1.0 Credit

Statistics is designed to help students who anticipate entering professions such as engineering, education, psychology, social work, or business administration. Topics include measures of central tendency, measures of variability, hypothesis testing, and probability. The emphasis in each of these areas is on providing the student with enriching experiences in the analysis and interpretation of data. This course emphasizes technology, hands-on activities, case studies, and real-world data applications. There will be formal assessments in every unit.

ALGEBRA II

1.0 Credit

Algebra II is a mathematics class for students who have successfully taken either Algebra IB or Keystone Algebra 8 and either Geometry or Honors Geometry. Emphasis is placed on strengthening and extending the skills learned in previous mathematics courses. Topics covered will include: factoring, exponents, radicals and radical equations, complex numbers, quadratic equations, rational exponents, polynomial identities and equations of higher order, rational expressions and equations, solving and graphing equations and inequalities of various types, polynomials, transformations across function types, and applications. Graphing calculators will be used extensively; therefore, it is strongly recommended that each student have a TI-84+ calculator for this course. NOTE: Students who have not completed Algebra 1A, Algebra 1B, and Geometry with at least an 80% should take Integrated Math prior to taking Algebra II.

HONORS ALGEBRA II

1.0 Credit

Honors Algebra IB is an honors-level mathematics class for students who have successfully taken either Algebra IB or Keystone Algebra 8 and either Geometry or Honors Geometry. Emphasis is placed on strengthening and extending the skills learned in these previous courses. Topics covered include: factoring, exponents, radicals and radical equations, complex numbers, quadratic equations, rational exponents, polynomial identities and equations of higher order, rational expressions and equations, solving and graphing equations and inequalities of various types, polynomials, exponential, transformations across function types, probability and applications. Given the honors level, students should expect a faster-paced environment with more rigorous problem-solving, deeper discussions to better understand the concepts listed above, and extended applications. Graphing calculators will be used extensively; therefore, it is strongly recommended that each student have a TI-84+ calculator for this course.

ACADEMIC TRIGONOMETRY

1.0 Credit

Trigonometry is the study of triangles and the functions formed by the ratio of a right triangle embedded in a circle of radius one. Topics covered include a basic introduction to trigonometric functions, identities, laws, and properties. There is also a focus in analyzing the graphs of the trigonometric functions and the various applications of these functions. This course places strong emphasis on the use of technology in the learning of mathematics. This course is recommended for all college-bound students and is required for Honors Calculus.

HONORS TRIGONOMETRY

1.0 Credit

This advanced-level course will provide a faster-paced, more rigorous curriculum and a deeper study of the same content offered in the Academic Trigonometry course, including triangles and the functions defined by the ratios of right triangles embedded in a circle of radius one. Topics covered in this course include trigonometric functions, identities, and applications of trigonometric functions, exponential functions, logarithmic functions, and conic

sections. This course places strong emphasis on the use of technology in the learning of mathematics. This course is recommended for all college-bound students and is required for Honors Calculus.

HONORS CALCULUS

1.0 Credit

Honors Calculus is an introductory course in differential and integral calculus of algebraic and trigonometric functions. Essential topics of analytic geometry are studied, as are the many applications of calculus. Students completing this course would have a good foundation for progressing into AP Calculus AB, but would need further study to be successful at the exam.

AP CALCULUS AB

1.0 Credit

AP Calculus is designed to prepare students to take the College Board's college placement test. It extends the material covered in Honors Calculus to include the topics of the AP Calculus AB Syllabus. Students completing this course will be prepared to take the AP Calculus AB Exam to earn college credit. It is expected that students taking this course will take the AP Calculus AB exam at the end of the course. *(also a Keystone College DE course - Math 2150: Calculus I - 4 credits)*

AP CALCULUS BC

1.0 Credit

AP Calculus BC is designed to prepare students to take the College Board's college placement test. It extends the material covered in AP Calculus AB to include the topics of the AP Calculus BC Syllabus.

Because of the intellectual challenges associated with mastering so much material and the creative application of new ideas, students should be prepared to handle a rigorous college-level course. The course philosophy requires students to represent and connect calculus concepts in graphical, numerical, analytical, and verbal ways. While limits, derivatives, integrals, sequences, and series are studied individually, connections among them are constantly emphasized, and each is used as a tool to further study the others. The following types of equations are studied: polynomials, rational, radical, trigonometric, transcendental, parametric, polar, and vector. Applications include: tangent lines, differentials, optimization, related rates, area, volume, surface area, arc length, exponential decay, and rotational systems. A very quick pace is required to complete the College Board syllabus.

Students completing this course will be prepared to take the AP Calculus BC Exam to earn college credit. It is expected that students taking this course will take the AP Calculus BC exam at the end of the course. *(also a Keystone College DE course - Math 2155: Calculus II - 4 credits)*

MUSIC

All students may elect any course for which they are qualified. A student may enroll for both Symphonic Band and Concert Choir. Students who participate in both band and choir will attend band and choir rehearsals on alternating days and will receive one (1) credit for the combined courses.

Course title	Weight	Open to Grades	Prerequisites	Credit
Symphonic Band	1.0	9-12	Proficiency on an Instrument (Director Approval if not in MS Band)	1

Concert Choir	1.0	9-12	None	1
Band/Choir Combo	1.0	9-12	Proficiency on an Instrument (Director Approval if not in MS Band)	1
Guitar	1.0	9-12	None	1
Music for the Masses	1.0	9-12	None	1
Modern Band	1.0	9-12	None but a background in vocals, guitar, piano, and or drumming preferred	1
Honors Jazz Studies	1.04	9-12	Concurrent enrollment in Symphonic Band AND successful proficiency audition. Students will also be enrolled in Music Theory I or II.	.5
Jazz Studies	1.0	9-12	Concurrent enrollment in Symphonic Band and successful proficiency audition. Students will also be enrolled in Music Theory I or Honors Music Theory II.	0.5
Honors Master Singers	1.04	9-12	Concurrent enrollment in Concert Choir and a successful proficiency audition. Students will also be enrolled in Music Theory I or Honors Music Theory II.	.5
<i>Master Singers</i>	<i>1.0</i>	<i>9-12</i>	Concurrent enrollment in Concert Choir. Students will also be enrolled in Music Theory I or Honors Music Theory II.	0.5
Music Theory	1.0	9-12	None, but this course will be scheduled concurrently with Jazz Studies and Master Singers courses.	0.5
Honors Music Theory II	1.04	9-12	Theory proficiency placement exam. This course will be scheduled concurrently with Jazz Studies and Master's Singers courses.	0.5

SYMPHONIC BAND

1.0 Credit

Symphonic Band is open to all students who play or are interested in learning a band instrument. Students are expected to have reached at least an intermediate level of performance on a band instrument and to possess minimum music-reading skills commensurate with the level of music studied in ensemble settings. Students enrolled in Symphonic Band do so with the understanding that a portion of the course grade is derived from participation in performances, which may take place outside the school day. Students are also expected to make a positive contribution to rehearsals and attend regular lessons scheduled during the day. In addition to playing techniques and musical rudiments, the course covers a vast range of styles and genres, from pop and rock transcriptions to the more serious and advanced music that represents the core of the wind band literature. Additional units of study will include: individual and ensemble performance skills, music theory, music history, conducting, performance on secondary instruments, history of wind music, and instrumental repertoire. May be taken in combination with the Concert Choir by selecting the Band/Choir Combo course code.

JAZZ STUDIES

0.5 credit

Jazz Studies emphasizes instruction in basic techniques of jazz performance. This includes skills in playing jazz articulations, analyzing charts and their harmonic structure, appropriate phrasing and style, aural recognition and dictation, transcription, and improvisation unique to the genre. The course will explore jazz history, literature, and important composers and musicians of the genre. Through ensemble rehearsal, individual practice, and a variety of

performance opportunities, the students will gain an understanding and appreciation for this genre. Students enrolled in Jazz Studies **must** also be simultaneously enrolled in Symphonic Band* (an exception for piano/guitar may be made at the director's discretion based on audition). You may **NOT** enroll in Master Singers if you are enrolled in this course. **All students in this course will be enrolled in Music Theory I or Honors Music Theory II.**

HONORS JAZZ STUDIES

0.5 Credit

Honors Jazz Studies is a rigorous extension of the Jazz Studies curriculum designed for students who demonstrate high proficiency through an audition. Running concurrently with the standard course, Honors Jazz Studies requires students to complete extended, more intensive assignments, perform jazz literature at a higher level, and demonstrate leadership within the ensemble. Students are also required to pursue co-curricular experiences outside the school day at the teacher's direction, including auditioning for PMEA and attending WCJO jazz festivals, workshops, or approved opportunities to further develop their performance of jazz repertoire and their knowledge of jazz history and theory. There will be an increased rigor, depth, and independence required. **All students in this course will be enrolled in Music Theory I or Honors Music Theory II.**

CONCERT CHOIR

1.0 Credit

Concert Choir represents the culmination of the Loyalsock Township choral experience. Available to all grade levels, students will develop their musicianship skills, including sight-singing, vocal technique, and knowledge of musical styles and historical periods. The Concert Choir repertoire spans the gamut from Renaissance motets and madrigals to musical theater and pop. Performances include the annual Holiday Concert, Spring concerts, and the bi-annual All-District Concert. In the past, the Concert Choir has performed with the Lycoming College choir and other adult performing groups. Students in the choir have many performance and enrichment opportunities, including community performances and a spring trip to see a Broadway show. Students involved in the Concert Choir have the opportunity to audition for the Master Singers, the advanced choir. May be taken in combination with Symphonic Band by selecting the Band/Choir Combo course code.

HONORS MASTER SINGERS

0.5 Credit

Honors Master Singers is an advanced choral ensemble for students demonstrating proficiency in vocal technique, musical maturity, and a commitment to pursuing music at a collegiate or conservatory level. Enrollment is based on a proficiency audition. Students study advanced choral techniques—including blend, balance, tone quality, intonation, and stylistic interpretation while preparing repertoire for four major concerts annually. The curriculum includes enriched, individualized musicianship work, and students are required to audition for the PMEA festival system (district, regional, state, and all-eastern choirs). There will be an increased rigor, depth, and independence required. Students enrolled in Master Singers may not enroll in Jazz Studies. **All students in this course will be enrolled in Music Theory I or Honors Music Theory II.**

MASTER SINGERS

This course presents a challenge for students who demonstrate advanced skill development and vocal maturity. In rehearsals, students work on blend, balance, tone quality, intonation, and proper interpretation while preparing for four major concerts each year. Master Singers will receive an enriched curriculum that will address individual musical skills. In addition, students are encouraged to audition for the PMEA festival system, which includes district, regional, state, and all-eastern choirs. You may NOT enroll in Jazz Studies if you are enrolled in this course. All students in this course will be enrolled in Music Theory I or II.

MUSIC THEORY I

0.5 Credit

This full-year high school music theory course covers essential topics such as reading and writing musical notation, understanding rhythms and time signatures, and identifying scales and key signatures. Students will learn about intervals, chords, and chord progressions, and how to harmonize melodies. The course also includes ear training and exercises to develop aural skills and analyze musical form and structure. This course is offered to enhance students' skills for their music elective courses. All students enrolled in Jazz Studies or Master Singers will be enrolled in a Music Theory course.

HONORS MUSIC THEORY II

0.5 Credit

Honors Music Theory II is a full-year course for advanced musicians seeking a deeper understanding of harmony, musical form, and compositional techniques. Admission is based on a proficiency exam. Students will compose in chorale and SATB counterpoint styles while exploring sophisticated melodic and harmonic writing. The curriculum emphasizes hands-on composition, ear training, aural skills, and sight-reading aimed to prepare students beyond entry-level college theory. This course will run concurrently with Music Theory I, and there will be an increased rigor, depth, and independence required. All students enrolled in Jazz Studies or Master Singers will be enrolled in a Music Theory course.

MUSIC FOR THE MASSES

1.0 Credit

Music is an important part of human existence; it tells a story, captures emotions, provides us with an escape, and often provides us the inspiration for our greatest triumphs and consolation for our humblest of defeats. For students with little or no training in music, this course will approach music from a variety of examples in which music is integral in every-day life and used strategically in the world we live in, including business/marketing, athletics, drama and dance, and media/TV, among many more examples. This course explores, in a nontechnical way, the basic elements of music and discusses the various cultural contexts in which music is found and how these affect the nature of the music and the listener's perception. It will provide students with a foundation for intelligent and appreciative listening and discussion of music through an understanding of how music is put together and the characteristics of various non-classical musical styles. Students will explore the relationships between music and other facets of society and culture (government, sport, film, fashion, dance, etc) while considering how the music we experience helps to define us as individuals and as a society. Upon completing this course, students will be able to thoughtfully analyze and discuss how music shapes their individual cultural identity and the profound impact it has on our society.

GUITAR

1.0 Credit

Get out your "ax" and come on tour! Regardless of your playing level, there is a place for you in Guitar. This course will explore the many different directions of one of the most versatile instruments. Included in this course will be song performance, chords (rock and jazz), Tablature, finger picking, scales for soloing and improvisation, small ensembles, and rock/familiar chord progressions. Sign up and crank it to eleven!

MODERN BAND

1.0 Credit

Modern Band is open to all students in grades 9-12 who are interested in a non-traditional band experience. Students who take the modern band course will learn the basics of rock band instruments such as drums, bass, guitar, and keyboard, as well as new instruments and programs in music technology and production. The course gives students the opportunity and resources to explore a wide variety of popular musical styles in an authentic, real-world learning environment. The materials used for the study are chosen from a wide range of levels of complexity and accepted instructional methods for the instrument. Popular music of different time periods and cultures will be used as a vehicle to inspire the direction of various lessons and projects. There will be performance opportunities for modern band students throughout the duration of the class, including cover songs and originals written in class.

PHYSICAL EDUCATION AND HEALTH

Course title	Weight	Open to Grades	Prerequisites	Credit
Physical Education 9	1.0	9	None	0.5
Health 9	1.0	9	None	0.5
Strength & Conditioning	1.0	10-12	None	0.5 or 1
Competitive Team & Lifetime Sports	1.0	10-12	None	0.5 or 1
Net Sports	1.0	10-12	None	0.5 or 1
Sports Nutrition	1.0	10-12	None	0.5
Sports Psychology	1.0	10-12	None	0.5

PHYSICAL EDUCATION AND HEALTH 9

1.0 credit

This is a required 9th-grade course and will be pre-populated on all 9th-grade course requests. The Physical Education 9 course will focus on Team and Lifetime activities. The purpose of this course is to teach students the value of staying physically active and developing their athletic skills for present and future leisure pursuits. This class is structured so that the students will meet the PA State Standards for Physical Education through a variety of team and individual activities. Students will also be encouraged to maintain and improve their fitness levels. The Health course is designed to help students learn about their changing bodies, sort out emotions and personal values, maintain optimum health as a lifelong process, and take responsibility for making healthy decisions. Health 9 is all about the student: topics include real-life situations for teens. The topic areas are based on teen pressures and teenage risk behaviors:

- Mental Health: dealing with stress, depression, and suicide; having empathy for others; violence prevention; positive self-esteem; handling peer pressures; making decisions; anger management; communication skills; dealing with bullies; and more.
- Sexuality: understanding reproductive anatomy and related issues; preventing sexually transmitted infections (diseases) and pregnancy; benefits of abstinence; recognizing healthy and unhealthy relationships; birth control.

- Smoking/ Alcohol/ Drugs: understanding the dangers of substance use and helping them know how to be above the influence to use.
- Nutrition: balanced eating; understanding nutrients; reading food labels; the importance of exercise; the dangers of many diets and eating disorders.

COMPETITIVE TEAM AND LIFETIME SPORTS (Open to Grades 10 -12)

0.5 or 1.0 credit

This PE elective occurs in a semester-long block and will focus on Team and Individual Lifetime activities for students interested in a competitive environment. The purpose of this course is to teach students the value of staying physically active and developing their athletic skills for present and future leisure pursuits. The elective is open to any 10th-12th-grade student who enjoys participating in team activities. This elective will provide opportunities to achieve skills, knowledge, and attitudes that will allow the individual to attain an optimal quality of life and well-being.

Only students interested in competing in a co-ed setting, both in team and lifetime activities, should take this course.

NET SPORTS (Open to Grades 10-12)

0.5 or 1.0 credit

Net sports are a course designed for students interested in tennis, table tennis, pickleball, badminton, handball, and volleyball. This course may refer to any of several sports in which a net is a standard part of the game and usually separates opponents on one side of the court from the other. The focus of this class is to enhance the skills and knowledge necessary to play and enjoy a variety of lifelong sports.

The objectives of this class include:

- Apply skill-related principles to enhance hand-eye coordination and contribute to lifelong fitness goals.
- Create positive social interaction while integrating agility, coordination, skill development, competition, and sportsmanship.
- Combine knowledge of basic skills and strategies to participate successfully in the various net sports offered.
- Students will be able to explain the rules, guidelines, and cognitive skills necessary for participation

STRENGTH & CONDITIONING (Open to Grades 10-12)

0.5 or 1.0 Credit

This course is designed for motivated students/athletes interested in weight/resistance training and overall athletic performance. The goal is to safely educate, inform, and assist in the development of weight-training skills while improving all 5 components of health-related fitness (muscular strength, muscular endurance, cardiorespiratory endurance, flexibility, and body composition). Performance and fitness will be benchmarked and measured throughout the semester to help students reach their goals. Classes will be held in both the classroom and the weight room. It is IMPERATIVE that students who sign up for this elective are willing to train each day of the course (athletic events will not exempt you from class participation).

SPORTS NUTRITION (Open to Grades 10-12)

Sports Nutrition is a course designed to help students understand how proper nutrition supports athletic performance, physical fitness, and overall health. Students will learn how the body uses nutrients for energy, growth, recovery, and injury prevention, with emphasis on hydration, meal planning, body composition, and safe use of supplements. The course applies nutritional concepts to real-world athletic and active lifestyles, encouraging students to make informed choices that promote performance, wellness, and lifelong healthy habits.

SPORTS PSYCHOLOGY (Open to Grades 10-12)

Sports Psychology is a course that explores the mental and emotional factors that influence athletic performance, teamwork, and personal well-being. Students will examine topics such as motivation, goal setting, confidence, focus, stress management, mental toughness, and the psychological aspects of injury and recovery. Through real-world examples and practical activities, students will learn strategies to enhance performance, improve communication, and build resilience in both sports and everyday life.

SCIENCE

Course title	Weight	Open to Grades	Prerequisites	Credit
Earth & Environment	1.0	9	None	1
Honors Earth & Environment	1.04	9	90% or better in 8 th Grade Science class	1
Biology	1.0	10	Successful completion of Earth & Environment	1
Honors Biology	1.04	10	90% or better in Earth & Environment 85% or better in Honors Earth & Environment	1
AP Biology	1.08	10-12	Successful completion of Honors Biology with a grade of 85% or better.	1
Chemistry	1.0	11-12	Successful completion of Biology Successful completion of at least Algebra 1	1
Honors Chemistry	1.04	11-12	Successful completion of Algebra II or taking Algebra II concurrently 90% or better in Biology or 85% or better in Honors Biology Proficient or better on the Biology and Algebra I Keystone Exams is <i>recommended</i>	1
AP Chemistry	1.08	11-12	Successful completion of Honors Chemistry with a grade of 85% or better Successful completion of Algebra II or higher Advance on the Biology and Algebra I Keystone Exams <i>recommended</i>	1
Physics	1.0	11-12	Completion or are concurrently enrolled in Integrated Math or higher. Proficiency or better on the Biology and Algebra I Keystone Exams is <i>recommended</i>	1
Honors Physics	1.04	11-12	Successful completion of Algebra II 90% or better in Chemistry or 80% or better in Honors Chemistry Strongly recommended that students are concurrently enrolled in Academic Trigonometry or higher Proficient or better on the Biology and Algebra I Keystone Exams is <i>recommended</i>	1

AP Physics	1.08	11-12	Successful completion of Honors Physics with a grade of 85% or better Successful completion of Trigonometry or Honors Trigonometry Successful completion of Honors Calculus with a grade of 85% or better	1
Integrated Physical Science	1.0	11-12	Successful completion of Earth & Environment and Biology <i>Intended for those students pursuing a technical/vocational pathway.</i>	1
Honors Human Anatomy & Physiology	1.04	11-12	Successful completion of Biology with at 80% or better	1
Forensic Science	1.0	10-12	Successful completion of Earth & Environment Successful completion of Biology or Honors Biology, or concurrently enrolled in Honors Biology	1

EARTH AND THE ENVIRONMENT



1.0 Credit

This course is designed to give students a sound foundation in Earth systems and environmental science. Students will use a variety of resources, including lab investigations, computer models, computer applications, research projects, and field studies, to enhance their environmental awareness and scientific understanding of the Earth and environment. Topics to be investigated include ecology, evolution, the natural forces that affect the earth, hydrology, ecosystems, population dynamics, sustainability, and alternative energy resources.

HONORS EARTH AND THE ENVIRONMENT



1.0 Credit

In this class, introductory principles of Earth systems and environmental science, including plate tectonics, energy, biogeochemical cycles, the atmosphere, weather, climate, evolution, ecology, and Pennsylvania topography. Students enrolled in this course analyze and describe Earth's interconnected systems and how they are changing due to natural processes and human influence. Students will evaluate evidence from experiments and technology used by scientists to understand the nature of the Earth and the human impact on the environment. Students will also explore and evaluate sustainability concerns, including alternatives to the existing environmental conditions in terms of scientific or technological feasibility, cost, economic impacts, and community quality of life.

BIOLOGY



1.0 Credit

Biology is designed to teach students the unifying principles that underlie the study of life. The subject matter focuses on common life processes. The course traces biological organization from the cellular level to the entire organism. The course provides students with a solid understanding of the common themes across the many fields of the biological sciences. Students will use a variety of resources, including laboratory investigations, computer applications, and research projects, to enhance their understanding of biology. All nine benchmark topics will be covered and reviewed in preparation for the Biology Keystone at the end of the semester.

HONORS BIOLOGY



1.0 Credit

Honors Biology is designed to teach students the unifying principles that underlie the study of life at a deeper level and faster pace than Biology. The subject matter focuses on common life processes. The course traces biological organization from the cellular level to the entire organism. Students will be asked to analyze and synthesize with critical thinking skills. All nine benchmark topics will be covered and reviewed in preparation for the Biology Keystone at the end of the semester. Laboratory investigations will include formal lab reports in addition to the core labs that will be run throughout the semester.

AP BIOLOGY

In AP Biology the student will gain a foundation in the Life Sciences by focusing on four major themes: 1) how evolution drives the diversity and unity of life; 2) how life uses free energy to maintain homeostasis; 3) how living systems store, retrieve, transmit, and respond to information; and 4) how biological systems interact with each other. These themes are supported by a broad range of biological subdisciplines including biochemistry, molecular biology, cell biology, genetics, physiology, and ecology. The student will use practical experimentation to develop inquiry and reasoning skills to explore these themes throughout the course. This course effectively prepares the student for success on the AP® Biology exam by promoting the deductive reasoning and experimental interpretation skills emphasized in the AP curriculum.

INTEGRATED PHYSICAL SCIENCE

1.0 Credit

This course is intended for those students pursuing a technical/vocational pathway.

Physical Science is a course that explores the relationship between matter, energy, and motion. The student will investigate the following: force and motion, structure and properties of matter, interactions of matter and energy. It is expected that students will engage with the content of Physical Science through inquiry-based learning. Hands-on laboratory investigations, individual studies, and group activities will be emphasized throughout the learning experience. Using available technology, students will investigate forces and motion, the chemical and physical properties of matter, the ways in which matter and energy interact within the natural world and the forms and properties of energy. Conservation of matter and energy is an underlying theme throughout the entire course. Physical Science will provide the knowledge, prerequisite skills, and habits of mind needed for problem-solving and ethical decision-making regarding matters of scientific and technological concern. Students planning collegiate studies after graduation should plan to enroll in Chemistry/Physics.

CHEMISTRY

1.0 Credit

This course is intended for those students NOT planning to continue their education in a science-related field.

Chemistry is often referred to as the 'central science', because to understand the living and material world a person must have a basic understanding of chemical principles. This course will expose all students to the basics of measurement, composition and structure of matter, as well as the changes that matter undergoes. Through the study of how and why these changes occur, students will be able to describe a predicted outcome and understand the application of this knowledge to the real world. Hands-on laboratory activities will be conducted to reinforce the course content. Safety, ability to follow directions and work independently, as well as proper recording of data will be stressed. Students will be exposed to basic problem solving and math skills that are required for the handling, application, and display of data. Students should successfully complete a first-year algebra course prior to taking any Chemistry course.

HONORS CHEMISTRY

1.0 Credit

This course is intended for students who are college-bound with plans to major in a science-related field and/or prepare for the AP Chemistry course.

Chemistry is often referred to as the 'central science', because to understand the living and material world a person must have a basic understanding of chemical principles. This course will expose students to the basics of measurement, composition and structure of matter, as well as the changes that matter undergoes. Through the study of how and why these changes occur, students will be able to qualitatively and quantitatively predict outcomes and understand the application of this knowledge to the real world. Laboratory activities will be done to reinforce understanding and to test predictions. There will be an emphasis on the collection and recording of data, mathematical manipulation of data to evaluate the results of experiments, and the reporting of these results in a scientific context. Experimental design, multi-step problem solving, and the use of mathematical models in understanding and predicting observed results will be stressed throughout the semester.

AP CHEMISTRY  

1.0 Credit

The AP Chemistry course is designed to be the equivalent of the general chemistry course usually taken during the first college year.

For some students, this course enables them to undertake, as freshmen, second-year work in the chemistry sequence at their institution or to register in courses in other fields where general chemistry is a prerequisite. For other students, the AP Chemistry course fulfills the laboratory science requirement and frees time for other courses. AP Chemistry should meet the objectives of a good general chemistry course. Students in such a course should attain a depth of understanding of fundamentals and a reasonable competence in dealing with chemical problems. The course should contribute to the development of the students' abilities to think clearly and to express their ideas, orally and in writing, with clarity and logic. (also a Keystone College DE course - Chem 1120: General Chemistry I - 4 credits)

Time Allocations: At least five hours a week in unsupervised individual study.

PHYSICS 

1.0 Credit

This academic-level course is intended for students NOT planning to continue their education in a science-related field.

Physics is the study of the physical phenomena that we encounter in our daily lives. It will attempt to explain the puzzling nature of phenomena such as automobile crashes, projectiles moving through the air, and the transfer of fundamental quantities like momentum and energy. Students work with the instructor to learn Physics through engagement, exploration, and explanation. The course is intended to fulfill a physical science prerequisite for students preparing for a technical school education or who wish to gain elementary knowledge of physics. Mathematics will be limited to arithmetic, algebra, and graphs. An emphasis will be placed on verbal and written explanations of physical events. Laboratory activities will be prevalent. Students wishing for a more in-depth study of mechanics and other physical principles, in preparation for future scientific study (including any medical, dental, engineering, chemical, biological, environmental, or physiological field), should choose Honors Physics.

HONORS PHYSICS 

1.0 Credit

This course is intended for academic students who are college-bound with interest or plans to major in a science related field and/or prepare for the AP Physics course.

Honors Physics is the study of the physical phenomena that we encounter in our daily lives. Honors Physics is a "mathematical science" that gives students an opportunity to use many of the mathematical concepts that they have

acquired over their years of education. Physics is a fascinating study of the characteristics of matter and energy and their relationship to each other. It emphasizes the application of mathematics as a tool to model the physical universe that surrounds us. The course will focus on Mechanics (as opposed to Electricity and Magnetism) and includes the traditional study of Newtonian mechanics, linear and multi-dimensional kinematics, and periodic motion. The concepts are presented at a level that requires an understanding of algebra, plane geometry, graphing techniques and basic right-triangle trigonometry. Students work in teams and with the instructor to learn Physics through engagement and exploration. This course is intended for students interested in math or science or planning to pursue any science- or math-related field at the collegiate level.

AP PHYSICS

1.0 Credit

The AP Physics course is designed to be the equivalent of the Mechanical Physics course usually taken during the first college year.

AP Physics is intended for those students with interest in high-level scientific study, or who plan to major in the physical sciences, mathematics, engineering, or medical field and who plan on taking the AP Physics C – Mechanics Exam. AP Physics is a continuation of the Honors Physics course with specific emphasis on integration of the calculus underpinnings of the field. This class is intended to be representative of a common college- or university-level Physics class including mechanics and dynamics (as opposed to electricity and magnetism). The main emphasis of AP Physics at LTHS is to develop the students' abilities to read, understand, and interpret physical information in a verbal, mathematical, and graphical context. Additionally, students will be expected to describe and explain the sequence of steps in the analysis of a particular physical phenomenon or problem. Students will need to use significant mathematical reasoning including arithmetic, algebraic, geometric, trigonometric, and calculus principles. Students will be prepared for the Advanced Placement Level C-Mechanics Examination. *(also a Keystone College DE course - Phys 2110: General Physics I - 4 Credits)*

HONORS HUMAN ANATOMY & PHYSIOLOGY

1.0 Credit

Honors Human Anatomy and Physiology is an elective course in science that studies body structures, functions, pathologies, and homeostasis. Knowledge from such a study makes it possible to predict how a cell, organ, or organ system will respond to various stimuli, and how this response affects the whole person. These studies are essential for anyone who plans to pursue a career in the health sciences, psychology, or physical education. In addition, the student's ability to evaluate her/his own physiological activities, understand recommended treatments, critically evaluate advertisements and reports in popular literature, and interact with health professionals is improved with this background. The student can expect to study the major body systems with emphasis on cytology, system dissections, nutrition, and genetics. Dissection will be a mandatory part of this course.

FORENSIC SCIENCE

1.0 credit

This hands-on, investigative course introduces students to the scientific principles and techniques used to solve real-world crimes. Through a combination of lectures, lab experiments, and case studies, students will explore key areas of forensic science, including crime scene investigation, fingerprint analysis, DNA profiling, toxicology, ballistics, and trace evidence. Emphasis will be placed on critical thinking, attention to detail, and teamwork as students analyze evidence, gather data, and draw conclusions. By the end of the course, students will gain an understanding of the role forensic science plays in the criminal justice system, as well as the ethical and legal issues associated with forensic investigations.

SOCIAL STUDIES

Students are required to earn four (4) credits within the Social Studies department before graduation. Each student will need to pass the three (3) core courses plus one (1) elective. See below for the department sequence and electives list.

Core (Required) Courses				
Course Titles	Weight	Grades	Prerequisites	Credit
Modern American History	1.0	9	None	1
World History	1.0	10	Modern American History	1
AP World History	1.08	11-12	90% in Modern American History	1
Civics	1.0	11	Modern American History, World History	1
4th Requirement Options/Electives Choices				
Course Titles	Weight	Grades	Prerequisites	Credit
Introduction to Social Sciences	1.0	9-12	None	1
Military History	1.0	9-12	None	1
American Popular Culture	1.0	9-12	None	1
Historical Perspectives	1.0	9-12	None	1
World Cultures	1.0	9-12	None	1
AP Psychology	1.08	11-12	Overall GPA of 85% or higher	1
AP World History	1.08	11-12	90% in Modern American History	1

MODERN AMERICAN HISTORY (9th Grade Requirement)



1.0 Credit

Modern American History will look at how the United States transformed into a global superpower. The course will begin with the Spanish-American War and continue through the end of the Cold War. Major course themes will include cooperation and competition amongst social groups, foreign and domestic policy, political changes, and geopolitics.

WORLD HISTORY (10th Grade Requirement)



1.0 Credit

World History is designed to build on the freshman Modern American History course. The course will begin with Absolutism in Europe and how the Enlightenment influenced political and religious movements worldwide. There will also be a focus on how competition and cooperation amongst the world's nations helped to shape the world we live in today. The course will conclude with the end of the Cold War.

AP PSYCHOLOGY



AP Psychology introduces students to the systematic and scientific study of human behavior and mental processes. While considering the studies that have shaped the field, students explore and apply psychological theories, key concepts, and phenomena associated with major units of study, including biological bases of behavior, cognition, development, learning, social psychology, personality, and mental and physical health. Throughout the course, students apply psychological concepts and employ psychological research methods and data interpretation to evaluate claims, consider evidence, and communicate ideas effectively. This course prepares students for the AP Psychology test administered in May. Students must have a GPA of 85% or higher to enroll in this course.

AP WORLD HISTORY: MODERN



1.0 Credit

AP World History: Modern is an introductory college-level modern world history course. Students cultivate their understanding of world history from c. 1200 CE to the present through analyzing historical sources and learning to make connections and craft historical arguments as they explore concepts like humans and the environment, cultural developments and interactions, governance, economic systems, social interactions and organization, and technology and innovation. May be used as an elective option or 4th Social Studies requirement option for 11th and 12th grades, assuming the student has earned their World History credit.

CIVICS (11th Grade Requirement)



1.0 Credit

The Civics coursework is designed to introduce students to various aspects of American Citizenship. This class will address the foundations, philosophies, structure, and interplay among the levels of government of the United States. Through the study of the Constitution, students will become familiar with the Legislative, Executive, and Judiciary process. Students will also become familiar with how governments serve their constituents, state, and local governments. The complexities of municipal governments and their immediate problems may be considered. This course will culminate in a commonwealth-mandated assessment that combines traditional assessment and community service. Open only to 11th- and 12th-grade students. **All students must demonstrate proficiency on a state-mandated Civics examination at the conclusion of the course.**

4th REQUIREMENT OPTIONS/ELECTIVE CHOICES

INTRODUCTION TO SOCIAL SCIENCES



1.0 Credit

Throughout the survey course, students will examine distinct areas of three social sciences: Psychology, Sociology, Economics, and Philosophy. Students will learn and apply the basic principles and theories of each field of study. Collectively, the course content helps students to develop critical thinking skills and enhances their understanding of the social sciences.

MILITARY HISTORY



1.0 Credit

U.S. Military History examines the study of the nine forms of offensive engagement within the modern United States military. Course topics include the study of various wars, leaders within wars, Sun Zi's "Art of War," and tactical analyses of battlefields from World War I to present day.

AMERICAN POPULAR CULTURE



1.0 Credit

Students will examine American History through the lens of American Popular Culture. The course will begin with a brief introduction to culture; then go decade-by-decade starting in the 1920s and ending in the early 2000s. Each unit will begin with a brief historical overview of major domestic and international events that affected American society. Students will explore American culture through movies, music, fashion, literature, trends, and other media.

WORLD CULTURES



1.0 Credit

Students will study various cultures from around the world and how they interact with societies around them. Students will learn about cultural conflicts both past and present as well as how different cultures have learned to cooperate in the modern world. The class begins with learning about the five main world religions and the study of different cultural groups such as the Aboriginal culture in Australia and the Hindu culture in India. The second half of the course focuses on the history of genocide, specifically the study of the Armenian Genocide, the Holocaust, the Cambodian Genocide and some case studies of genocide today. Finally, the course ends with the study of current events as it relates to cultural conflict and cooperation, such as the war in Ukraine and the Israeli-Palestinian conflict.

HISTORICAL PERSPECTIVES



1.0 Credit

Students will explore primary source documents to better understand the experiences and contributions of African Americans and women throughout American history. The course aims to deepen students' appreciation of the people and movements that shaped our society. Students will work individually and collaboratively to create projects and presentations demonstrating their understanding of key topics. The first semester focuses on African American history, beginning with African culture and its transition to the Americas, and continuing through the 19th, 20th, and 21st centuries. The second semester focuses on women's history, beginning with the roots of the women's movement and examining influential figures and events from the 19th century to today.

TECHNOLOGY EDUCATION

Course title	Weight	Open to Grades	Prerequisites	Credit
Pre Engineering & CAD*	1.0	9-12	None	1
Graphic Design*	1.0	9-12	None	1
Multimedia I *	1.0	9-12	None	1
Multimedia II	1.0	10-12	Successful completion of Multimedia I with a grade of 80% or better	1
Honors Architectural/Civil Engineering	1.04	9-12	Successful completion of Pre-Engineering & CAD	1
Honors Engineering	1.04	9-12	Successful completion of Pre-Engineering & CAD	1
Manufacturing/Woodworking*	1.0	9-12	None	1
Automated Design*	1.0	9-12	None	1

* TECHNOLOGY REQUIREMENT OPTION

GRAPHIC DESIGN

1.0 Credit

This course centers on computer-generated graphics and provides students with the opportunity to learn industry-standard software programs. Design, problem-solving, and creativity are concepts that students will learn through instruction and hands-on design problems. Students planning careers in desktop publishing, web design, advertising art, and graphic design should take this course.

MULTIMEDIA I

1.0 Credit

Students will be introduced to professional production techniques and equipment used within the communications industry. Students learn how to utilize HD video cameras, professional editing software, and hardware. Another large part of this class focus will be film analysis. Students will learn the industry techniques used to create multimedia video. Students will have the opportunity to create commercials, documentaries, short films, and other projects related to the Communications industry. Students looking to seek careers in Business Marketing, Film, Communications, Journalism, or any related career would greatly benefit from this class.

MULTIMEDIA II

1.0 Credit

This semester course will have students continue to independently study the electronic media of television communication concentrating on producing shows. Students will be introduced to the use of audio and video mixers and other equipment used in the studio and control room. Students will complete a variety of video assignments including assisting in documentaries for the Loyalsock Township School District. Each student will be expected to produce a one half hour show that could be featured on an internet show and/or a local cable network. Students will also be encouraged to produce segments for entry in various contests for scholarship opportunities. Each student will be expected to produce a minimum of six final edited projects that total a minimum of 45 minutes. The final project assignment will be to produce a custom DVD Portfolio which includes a compilation of all work throughout the year. Students will be utilizing professional software such as Adobe After Effects and Adobe Premiere Pro. Students will learn advanced editing techniques such as: Cropping, Motion tweens, Chroma Key, lighting techniques, Computer Animation, and Key framing.

PRE-ENGINEERING & CAD

1.0 Credit

Pre-Engineering & CAD is designed to introduce and learn the basic concepts of electronics, coding, Computer Aided Design.. Throughout the course students will learn a variety of concepts related to Engineering. Topics included in the course will be geometric constructions, dimensioning, orthographic projections, and sectioning. Students will gain insight into related Engineering career opportunities as well as grasp a concept of industry language. Computer Aided Drafting (CAD) and C+ robotics coding will be used throughout the course. This course will be beneficial to anyone considering a career in any form of industry including: Engineering, Design, Technical Drawing, Surveying, Fashion Design, Architecture, Interior Design, and Electronics.

HONORS ARCHITECTURAL/CIVIL ENGINEERING

1.0 Credit

Architectural / Civil Engineering is a continuation of the study of Pre-Engineering and CAD. The course will be divided up into three sections. The first section will be further developing and reinforcing the student's skills using the CAD program, beginning with a review from Pre-Engineering and CAD while creating a set of working drawings and parametric models. The study of Architecture in residential and commercial design will be the main focus of study in the second section of the course. Students will create designs and build models to test designs. Finally, the students will be spending a good deal of time designing a BIM 3D model. This 3D model is designed with software that is industry standard for the Drafting and Architecture professions. Students will create floor plans, kitchen and bath layouts, elevation views, site plans, renderings, and video walkthroughs. Career opportunities in the Architectural and Civil Engineering fields will be the major themes in this course.

HONORS ENGINEERING

1.0 Credit

This course is designed to give students the opportunity to explore engineering as it relates to industrial processes and products in the areas of manufacturing, transportation, control

technology, and communication. An overview of the fields of mechanical, electrical, architectural, industrial, civil, and fluid engineering will be covered. Simple machines, measuring, CAD, design, quality control, computer control, safety and testing will be included. The students will gain an understanding of the applicable laws of physics, including Ohm's Law, Pascal's Law, Boyle's Law, and Newton's Laws. The students will have the opportunity to create projects and/or products in the field for which they have an interest. Special emphasis will be placed on educational requirements and career opportunities for the various fields of Engineering.

MANUFACTURING/WOODWORKING

1.0 Credit

Woodworking is a project-oriented course in which students will be exposed to all phases of basic and advanced woodworking techniques. The knowledge of the tools, machinery, and operations used in the course are transferable to most any career in industry today. Students do not need experience with wood or woodworking machines but will need to bring self-motivation and desire to class with them. Student students will work individually (with instructor assistance) on a project made of wood which is chosen to match their interests and needs. Each student will have the opportunity to utilize the computer controlled (CNC) router to engrave clip art, words or other designs into their projects. Students will be expected to bear the cost of their chosen materials.

AUTOMATED DESIGN

1.0 Credit

This class will explore the use of automated equipment in the fields of manufacturing. Students will learn and engage in the process of designing two and three dimensional items using computer software, and then proceed to manufacture those items, from prototype through final iteration. Automated equipment will include, but not be limited to cutting and engraving lasers, CNC routers and 3D printers which students will be required to show aptitude in setup, safety, running and clean-up. Final products will also include assembly, staining or painting and project descriptions. Items to be designed will include, but not be limited to electric signs, shadow boxes, coin banks and table top games.

WORLD LANGUAGE

All World Language courses are sequential and elective. Upon completion of Spanish I, the student should consult with the instructor to determine proper placement in higher-level courses.

Course title	Weight	Open to Grades	Prerequisites	Credit
Spanish I	1.0	9-12	None	1
Spanish II	1.0	10-12	Successful completion of Spanish I with an 80% or higher	1
Honors Spanish III	1.04	10-12	Successful completion of Spanish II with a 85% or higher	1

Honors Spanish IV	1.04	11-12	Successful completion of Spanish II and III with a 90% or higher in Spanish III	1
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SPANISH I

1.0 Credit

First year Spanish students learn high-frequency vocabulary and sentence structures through a blend of TPRS (Teaching Proficiency through Reading & Storytelling), CI (Comprehensible Input) methods, and thematic units. The focus is narration in the present tense. S, etc. Students will begin to read, write, understand, and speak Spanish, while engaging in Hispanic cultural lessons. Content is taught through listening to and reading stories, songs, short biographies, and interactive digital materials that build digital literacy and responsible technology use in language learning. Cultural components are embedded into instruction. Students are expected to read a short, leveled book. Students will exit this course able to have simple conversations about likes/dislikes, personality, hobbies/activities, school, professions, family, and food as novice-high language learners, based on ACTFL Proficiency Guidelines.

SPANISH II

1.0 Credit

Spanish 2 is a continuation of Spanish 1. Students continue to learn high-frequency vocabulary through the TPRS, CI methods, and thematic units. The focus of instruction is on narration in the present and past tenses communicating on topics regarding daily routine, restaurant etiquette, fashion, music, and travel abroad. Intercultural components are embedded into instruction. Speaking, listening, reading and writing remain the focus. Students are expected to read two leveled books. Students will practice language skills in real-world contexts, such as ordering in restaurants, asking for directions, or engaging in travel scenarios. Students will exit this course as low intermediate language learners, based on ACTFL Proficiency Guidelines.

HONORS SPANISH III

1.0 Credit

In Spanish III, vocabulary and grammar are more advanced, allowing students to produce more spontaneous conversations and communicate effectively in real-life situations. Themes may include preparing food, discussing contemporary culture, volunteering in the community, and expressing future goals in Spanish. By the end of the course, students will have acquired a strong foundation in grammatical concepts and can use them in varied contexts. Speaking, listening, reading, and writing remain the focus, and instruction is conducted 90% in Spanish. Students will engage in interpretive, interpersonal, and presentational tasks, applying language to real-world scenarios. Students are also encouraged to participate in authentic cultural exchanges and to take the National Spanish Exam for proficiency benchmarking. Students will exit this course as Intermediate Mid language learners, based on ACTFL Proficiency Guidelines.

HONORS SPANISH IV

1.0 Credit

Students taking this course will reinforce grammatical concepts while exploring a variety of contemporary topics of interest. Vocabulary is considerably expanded, and grammatical concepts are studied in depth to strengthen higher-level thinking skills in Spanish. Course themes include immigration, health, the environment, Hispanic art and architecture, and social customs and values. Students are encouraged and challenged daily to articulate their opinions and ideas accurately in Spanish.

A highlight of this course is the college and career readiness portfolio, which all students complete by the end of the semester. As part of this project, students participate in at least two annual field trips to Schick Elementary, applying their Spanish skills in real-world community and career-related contexts.

Students engage with authentic materials and are also encouraged to take the National Spanish Exam to benchmark their language proficiency nationally. All communicative skills — listening, reading, writing, and speaking — are further developed, and the course is taught entirely in Spanish. Students will exit this course as Intermediate-Mid Language Learners, based on the ACTFL Proficiency Guidelines. This course is equivalent to a second-level college course.