

SENIOR HIGH
COURSE
DESCRIPTION
GUIDE



LACKAWANNA TRAIL
SENIOR HIGH SCHOOL

2024-2025
SCHOOL YEAR

Lions,

Welcome back! I am truly excited about the 2024-2025 school year and all it has to offer. We have a great mixture of academic and extracurricular offerings for you to take part in this school year. Please make the best possible use of your time in High School and let us know how we can assist you on your journey!

The High School Course Description Guide was created to assist you with the course selection process and to provide you with an overview of the topics that you will study throughout the year. It is reflective of the current regulations and requirements of the Lackawanna Trail School Board of Education and the Pennsylvania State Department of Education. There are several new electives and course offerings in this Course Description Guide. Please take time to read over this material carefully with your parents/guardians and school counselor before you make your final course selections for the fall.

Your high school experience will prepare you for the challenges that lie ahead in college, career, and/or military service. You should use this guide to plan your courses wisely and commit yourself to mastering the skills and content that will be presented to you as you work your way toward graduation.

On behalf of the Lackawanna Trail faculty and staff, we wish you all the best for a successful year.

Sincerely,

Dr. Mark P. Murphy
Principal

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Regular Schedule		2 Hour Delay		3 Hour Delay (A)		3 Hour Delay (B)	
Homeroom 7:40am-7:45am		Homeroom 9:40am-9:45am		Homeroom 10:40am-10:45am		Homeroom 10:40am-10:45am	
Period 1	7:45-8:27	Period 1	9:45-10:13				
Period 2	8:30-9:12	Period 2	10:16-10:44	Period 5	10:45-11:19	Period 5	10:45-11:19
Period 3	9:15-9:57	Period 3	10:47-11:15	Period 6	11:22-11:56	Period 6	11:22-11:56
Period 4	10:00-10:42	Period 5	11:18-11:48	Period 7	11:59-12:33	Period 7	11:59-12:33
Period 5	10:45-11:27	Period 6	11:51-12:21	Period 8	12:36-1:10	Period 2	12:36-1:10
Period 6	11:30-12:12	Period 7	12:24-12:54	Period 9	1:13-1:47	Period 3	1:13-1:47
Period 7	12:15-12:57	Period 8	12:57-1:25	Period 1	1:50-2:25	Period 4	1:50-2:25
Period 8	1:00-1:42	Period 9	1:28-1:56	PM Announcements	2:27-2:30		2:27-2:30
Period 9	1:45-2:27	Period 4	1:59-2:27				
PM Announcements	2:27-2:30		2:27-2:30				

HIGH SCHOOL BELL SCHEDULE

Academic Mentoring Schedule			
Period 1	7:40-8:23	Period 6	11:10-11:48
Period 2	8:26-9:04	Period 7	11:51-12:29
Period 3	9:07-9:45	Period 8	12:32-1:10
Period 4	9:48-10:26	Period 9	1:13-1:51
Period 5	10:29-11:07	Period 10	1:54-2:30

Early Dismissals: will take place at 11:15 a.m. Students will attend periods one through four on early dismissal days. Period 4 will be extended.

The **Academic Mentoring Program** offered during 10th period is a focused period of time in which the faculty mentor provides a small group of students, with whom they are authentically paired, timely information pertaining to their academic progress and refers that information to various invention programs when necessary. Academic mentors will also provide instruction relative to academic success, executive functioning, and social skills, in grades 7 -9, and college and career readiness (i.e. resume writing, interview skills, college and/or career applications) in grades 10 - 12.

The 10 period schedule is also used for special presentations and assemblies, such as pep rallies and holiday concerts. Mentoring and Advisory days are advertised to the students by homeroom teachers and during morning announcements.

SENIOR HIGH SUBJECT SELECTION GUIDELINES

GRADUATION REQUIREMENTS

To be eligible to graduate, a student must meet state graduation requirements as well as current Lackawanna Trail standards set forth in the graduation policy. Students are encouraged to complete more than the minimum requirements commensurate with their post-secondary plan. Complete programs of study include:

- Four (4) units of English (Including one unit at each grade level)
- Four (4) units of Mathematics
- Three (3) units of Social Studies (2 units American History and 1 unit of World History)
- Four (4) units of Science
- One and one-third (1 1/3) units of Physical Education. PE Must be taken each year.
- One (1/2) unit of Health
- One-quarter (1/4) unit of Consumer Science
- One (1) unit of Computer Science
- One (1) unit of Arts/Humanities
- Seven (7) electives
- Proficient in all three Keystone-trigger subjects (Bio, Lit., Alg. 1) or satisfactorily completed an approved PDE Alternative Pathway for Graduation (i.e. Act 158). See page 12 for more information.
- Complete a College and Career Portfolio using the Smart Futures Software.

GUIDE TO SELECTING YOUR SUBJECTS

When you select your subjects for the next school year keep in mind the following:

- Establish personal goals with the assistance of your school counselor.
- Have specific educational, occupational, and personal objectives that you are working towards.
- Evaluate your personal strengths, interests, aptitudes, and needs.
- Learn the requirements for the college or technical school you plan to attend or the kind of work you plan to do after graduation.
- During the summer prior to your senior year, you should visit the college, technical school or place of employment in which you may be interested.
- Consult your parents/guardians, talk with your teachers, and confer with your school counselor to get the benefit of their experience and information.
- Select the subjects to be included in your course of study that will contribute most towards helping you achieve the goals you establish.

CAREER / POST-SECONDARY PLANNING TIMELINE

Please find below a timeline of suggestions to assist students who are preparing for their post-secondary plans.

Freshman Year

- Become familiar with the resources in the Career Center.

- Consult with your school counselor for future planning and the scheduling of a demanding and challenging course selection.
- Attend the annual Lackawanna Trail Career Day
- Ensure that your College and Career Artifacts are up-to-date in the Smart Futures Software.
- Identify the Graduation Pathway that you are aiming to achieve (Act 158).

Sophomore Year

- Take the PSAT-10 offered in mid-October.
- Use Career Center resources to actively research career and professional information.
- SMART FUTURES PLACEHOLDER
- Attend the annual Lackawanna Trail Career Day
- Pass Keystone-trigger courses (ALG, BIO, LITERATURE)
- Ensure that your College and Career Artifacts are up-to-date in the Smart Futures Software.
- Identify the Graduation Pathway you are most likely to achieve (Act 158).

Junior Year

- Take the PSAT offered in mid-October.
- Take advantage of the SAT prep classes offered by the school.
- Take the ASVAB (Armed Services Vocational Aptitude Battery).
- Ensure that your College and Career Artifacts are up-to-date in the Smart Futures Software.
- Attend school's annual College Alumni Program.
- Attend school's annual Financial Aid Night in early January.
- Attend the annual Lackawanna Trail Career Day.
- Take SAT and/or ACT at least once in the spring.
- Register with scholarship searches, such as fastweb.com and educationplanner.com.
- Use your summer vacation to visit your schools of choice and gather all the relevant information regarding the schools.
- Identify any remaining requirements needed in your senior year to achieve your Graduation Pathway (Act 158).

Senior Year

- Meet with your school counselor early in the year to discuss your plans.
- Attend the annual Lackawanna Trail Career Day.
- Take the October SAT, ACT, and/or SAT II, if necessary.
- Re-Take the ASVAB (Armed Services Vocational Aptitude Battery) if you are interested in any of the various branches of the military.
- Prepare college applications carefully. Follow instructions and pay close attention to deadlines! Try to have all college applications submitted before Thanksgiving.
- Attend the annual College Alumni Program.
- Attend the annual Financial Aid Night in early January.
- Beginning in January, complete all necessary financial aid forms, which will include the FAFSA (Free Application for Federal Student Aid).
- Periodically visit the Career Center and apply for any local scholarships for which you are eligible.

- Ensure that your College and Career Artifacts are completed in the Smart Futures Software.
- Satisfy all requirements for your Graduation Pathway (Act 158).

COLLEGE AND CAREER READINESS

The Lackawanna Trail School District utilizes the Smart Futures software to facilitate College and Career Readiness learning, document progress made by our students toward career exploration, and assist them in making their post-secondary choices. College and Career Readiness is part of the larger Chapter 4 regulations for Career Readiness Indicators. Student indicators for College and Career Readiness are reported annually as part of the Future Ready PA Index and ESSA Accountability. All students in grades K-12 are required to document approximately two (2) artifacts per year. College and career activities culminate in a portfolio review in the student's eighth and eleventh grade year. A completed senior portfolio is also a requirement for graduation. See your school counselor for more information on College and Career Readiness and the Smart Futures software.

ADVANCED PLACEMENT

In addition to the regular academic program, Lackawanna Trail High School offers Advanced Placement Courses. Carefully read the program of study to determine the AP courses that are offered. Courses in Advanced Placement are college-level courses. They require a great amount of study on the part of the student. They carry 1 full academic credit. In addition, AP course grades are weighted 110 percent of the grade achieved. A student who enrolls in an Advanced Placement course is strongly encouraged to take the AP Exam in that subject. Students who take the exam and receive a grade of 3 or higher, on a scale of 1 - 5, normally will receive college credit for the course once they are enrolled in college. Students should investigate to determine if the college or university they wish to attend awards credit for AP courses. This research is the responsibility of the parents/guardians and students and the information is usually found in the college's catalog. There is a fee for taking the exam. AP Courses include: AP English, AP Calculus, AP US History, AP US Government, AP Seminar, AP Research, and AP World History.

AP CAPSTONE PROGRAM

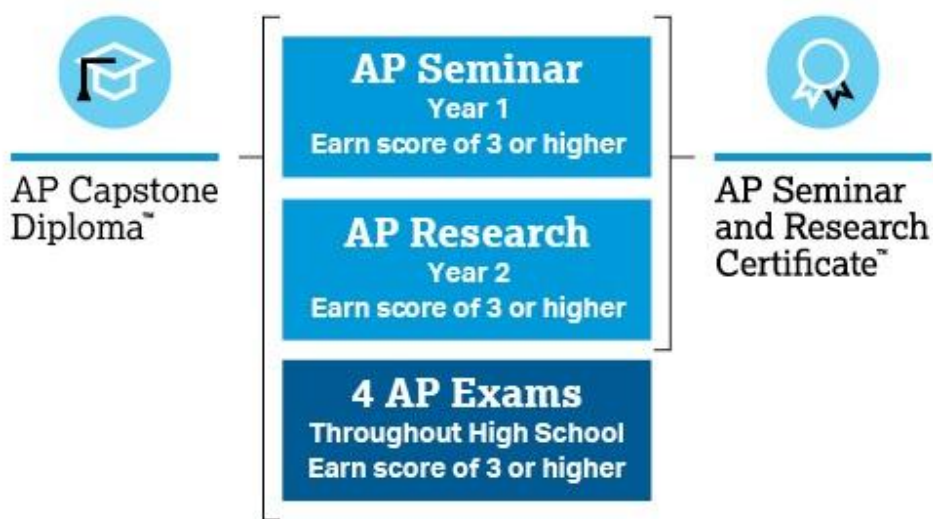
AP Capstone™ is an innovative diploma program from College Board that equips students with the independent research, collaborative teamwork, and communication skills that are increasingly valued by colleges. This program allows students to create a meaningful, self-selected academic focus and provides a forum for students to explore their areas of interest in a rigorous classroom environment. The AP Capstone is built on the foundation of two AP® courses- AP Seminar and AP Research- and uses an interdisciplinary approach that is designed to complement and enhance the in-depth, discipline-specific study experienced in other AP courses.

Students typically take AP Seminar in grade 10 or 11, followed by AP Research. Each course is yearlong, and AP Seminar is a prerequisite for AP Research.

Over the course of the two-year program, students are required to:

- Analyze topics through multiple lenses to construct meaning or gain understanding.
- Plan and conduct a study or investigation.
- Propose solutions to real-world problems.
- Plan and produce communication in various forms.
- Collaborate to solve a problem.
- Integrate, synthesize, and make cross-curricular connections.

Students who earn scores of 3 or higher in AP Seminar and AP Research and on four additional AP Exams of their choosing receive the AP Capstone Diploma™. Students who earn scores of 3 or higher in AP Seminar and AP Research but not on four additional AP Exams receive the AP Seminar and Research Certificate™. The AP Capstone Diploma and AP Seminar and Research Certificate are reported to colleges and universities as AP Scholar Awards and appear in Scholar Roster reports.



Visit the College Board website at <https://apcentral.collegeboard.org/> to learn more.

HONORS COURSES

Another addition to the regular academic program is the honors program. Honors courses, which are more academically challenging than regular courses, are weighted at 108 percent of the grade achieved. Students who select an honors course must meet the following criteria to enroll.

Honors English, Honors Math, Honors Science, & Honors Social Studies:

- 93% average or better in last related general subject course and/ or 85% average or better in a related honors subject course
- Passing/Proficient score on last applicable standardized assessment exam (i.e. PSSA, Keystone exam)
- PVAAS projection score commensurate with honors coursework and course grade.
- Teacher recommendation
- Parent/Guardian requests are not able to be considered

HONOR ROLL

Honor roll will be issued at the conclusion of each marking period.

1. Students must have an 87 or higher average with no grade at or below a 76.
2. Students may not have an incomplete in any subject. Incompletes must be made up within 2 weeks of the end of the marking period.
3. Students will be awarded High Honors if they have a 93 or higher average in major subjects and meet additional guidelines.

Note: Students qualifying for Honors Recognition must have an overall G.P.A. of 87 or higher with no failing or incomplete grades. Honors Recognition will be based 1st, 2nd and 3rd marking period grades.

If a parent/guardian does not wish to have his/her child's name published as part of the Honor Roll, a written request should be submitted to the Main Office at the beginning of the school year. A new request is required each year.

DUAL ENROLLMENT

Dual Enrollment allows students to take college courses and earn postsecondary credit while completing high school graduation requirements. Lackawanna Trail offers several dual enrollment courses including AP English, AP US History, AP US Government, AP World History, Honors English IV, Honors World History, Honors Psychology, Honors Chemistry, Honors Physics II, Honors Physics, Honors Statistics, Honors/AP Calculus, Honors Anatomy and Physiology, and Honors Spanish IV. Contact the Guidance Department for more information about these courses.

CLASS STANDING

To be eligible to be listed as a sophomore, a freshman student must earn a minimum of five and one-third (5 1/3) units. To be eligible to be listed as a junior, a sophomore student must earn a minimum of eleven and two-thirds (11 2/3) units. To be eligible to be listed as a senior, a student must schedule the proper course load to graduate at the end of the senior year. All AP and Honors courses utilize weighted grades as a calculation for Grade Point Average and Class Rank.

SCHEDULE CHANGE REQUESTS

Course selections should be firm decisions, that are thoughtfully made by students after careful consultations with parents/guardians, teachers, and counselors. Prior successes, failures, special individual interests, aptitudes, and future college and/or career plans should be taken into consideration when you plan your course sequence. Requests for changes in your schedule may be made through the guidance department and your school counselor. Schedule changes are not guaranteed, however, and cannot be made without administrative approval.

Changes often are requested because of a student's preference for a certain teacher, desire for a reduction of course load because of academic difficulties, outside employment, the desire to be placed with friends, or change of mind as to personal preference for course content. Such changes cannot be accommodated. The only changes that will be considered are those that meet two or more of the following criteria:

- A change in a student's educational plan requires a change of electives.
- A student is in need of meeting credit requirements for grade promotion/graduation.
- The request is the result of courses taken during the summer session.
- The teacher and/or counselor determine a student is placed in an inappropriate class.

If you feel that you have a valid request for a schedule change, as previously outlined, the request must be made in writing and signed by your parent/guardian. A form for schedule changes can be found in the Guidance Department. The guidance department will review your request after consultation with your parent/guardian before seeking administrative approval.

SENIOR HIGH REGULATIONS

A student shall have a minimum course load of six (6) units of credit per year, plus required subjects, for example, Physical Education. Only major subjects which meet every day will meet the requirements toward six (6) credits for the entire year.

- ◇ A number of courses have prerequisites or recommendations. These prerequisites or recommendations are designed to improve your chances of success.
- ◇ If a course is repeated to obtain a higher grade, although that course had not been failed, the student cannot count both courses for credit. The higher of the two grades will count in the cumulative average in determining class rank.

ACADEMIC HONORS

Top students in each department will be honored at graduation. The high school principal will nominate up to three students to speak at graduation exercises. (i.e. Valedictorian, Salutatorian, Commended Student.)

INDEPENDENT STUDY/COLLEGE COURSES

The following circumstances may qualify a student for independent study:

- ◇ A desire for enrichment.
- ◇ Curriculum areas not offered by Lackawanna Trail.
- ◇ Scheduling difficulties.
- ◇ Demonstrated achievement in the specific content area.

To qualify for taking a course on an independent study basis, a student must:

- ◇ Request permission from the Guidance Office.
- ◇ Receive approval from the teacher, guidance counselor, and principal.
- ◇ Minimum requirements will be established by the teacher.
- ◇ The course must be completed prior to the close of the school year in which it is initiated.
- ◇ Only senior high students in grades 11-12 are eligible.
- ◇ Students taking independent study/college courses will receive a grade and credit for the work done.

GRADING SYSTEM

A numerical grading system is used at the Jr. Sr. High School. The specific earned percentage will be reported to parents/guardians and students on the report card. The scale is:

- 93 -100 - Superior - A
- 85 - 92 - Above Average - B
- 77 - 84 - Average - C
- 70 - 76 - Below Average - D
- Below 70 - Failure

REPORT CARDS

Students will receive a report card each quarter. Major courses that run the entire year will be graded according to the following:

- Quarter 1 average
- Quarter 2 average
- Quarter 3 average
- Quarter 4 average

Courses may include a Mid-Term Exam, a Final Exam, or Final Project, which is factored into the quarter average. Teachers determine the level of comprehensiveness tested on their mid-term and final exams.

GRADUATION REQUIREMENTS

Pennsylvania requires students to demonstrate successful completion of secondary-level course work in Algebra I, Biology, and English Literature. The Keystone Exams are one component of Pennsylvania's system of high school graduation requirements and are end-of-course assessments designed to assess proficiency in those subject areas. The Lackawanna Trail SD will also require students to achieve proficiency in each of these content areas as a graduation requirement. Alternate pathways are established by the department of education for students who are not successful after their second attempt at the Keystone exams. Those Pathways include the Keystone Composite Pathway, the Career and Technical Education Concentrator Pathway, the Alternative Assessment Pathway, and the Evidence-Based Pathways. Please visit www.pde.sas.org for more information on Act 158 and approved Graduation Pathways.

Additionally, all students must have completed a College and Career Portfolio prior to graduation. Lackawanna Trail School District utilizes the Smart Futures Software to track and warehouse these documents. Please see your School Counselor with any questions about your portfolio.

ABSENT STUDENT HOMEWORK POLICY

If your child is expected to miss fewer than two (2) days of school, please have them collect work directly from their teachers upon their return. If your child is expected to miss three (3) or more consecutive days of school due to illness or other excused absence, please notify the main office by emailing lthsattend@ltsd.org. Often work can be collected through the Google Classroom but completing work asynchronously does not count as having attended class for attendance purposes. Students must be physically or virtually present to be considered in attendance.

Students will have one day for every excused day of absence to make up work missed.

ONLINE GRADE SYSTEM (MMS)

The Lackawanna Trail Junior-Senior High School utilizes data management software known as Modular Management for Schools FOCUS (MMS FOCUS) to record student attendance, document biographical information, manage disciplinary records, and report grades. The MMS FOCUS software is a tool for your use but does not replace personal contact between you and the school. Below are steps that parents/guardians are required to take in order to access your personalized information on MMS FOCUS. The MMS FOCUS Link is available on the high school webpage (www.ltsd.org) under Resources.

If you have previously held a Parent Portal Account with us, click "I have forgotten my password." This is the option to select even if you have your password available. Enter your email address and select the option to generate a new password. Then retrieve the password from your email and login using those credentials. You will be directed to create your own password before proceeding further. Your student(s) information should appear after you have logged in.

If you have never had a Parent Portal Account with us, click “I DO NOT have an Account Registered on the Parent Portal” to set up your new account. Enter the following information EXACTLY as described below:

Parent Name: This is the first name you entered on your summer mailing paperwork

Parent Email address: This is the email address you provided on your summer mailing paperwork

Student’s ID Number: This is also your student’s lunch code

Although your child’s schedule and grade-to-date will be visible at this point, be mindful that your child’s teacher may take up to seven days to grade and upload the grade into the MMS system. If you have problems accessing and using the MMS FOCUS system, we ask that you to call the high school office at 570.945.5181 between 8:00am and 3:30 p.m. Any contacts outside of this time will be addressed during the time window outlined. If you need feedback on an assessment, you may call or email your child’s teacher directly. Teacher email addresses are listed on the school website (www.ltsd.org) and are hyper-linked in the MMS Focus Portal (<https://ltsd.focusschoolsoftware.com/focus/auth/>).

Please note that MMS FOCUS has a fully integrated mobile application available for you to download and use as well. The App is called “FOCUS PA.” You are able to use the same login credentials on the App as you do in the web-based version.

ONLINE LEARNING PLATFORM

The Lackawanna Trail Junior-Senior High School utilizes the web-based platform Google Classroom for online learning. Teachers use this platform to communicate course expectations and announcements, deliver instruction during virtual learning days, collect, and return student work, assess and communicate students’ progress, and provide academic resources and support.

Parents/Guardians may request Guardian access to their student’s Google Classrooms. To do so, please contact the individual teacher and provide them with your email address.

SCHOOL COUNSELING DEPARTMENT

The school counseling department at Lackawanna Trail Junior-Senior High School consists of two counselors, a counseling secretary, and a counseling support professional. The school counseling department services all students in grades 7-12. School Counselors are in charge of all academic, college, and social/emotional aspects of student growth & support.

The school counseling department is also assisted by a full-time school-based social worker.

Lackawanna Trail School Counseling Mission Statement

The mission of the counselors of the LTSD is to provide high-quality, comprehensive school counseling services to all students. School counselors are professional school advocates who provide support to maximize student potential and academic achievement as well as enhance their career, social, and personal strengths. In partnership with other educators, parents or guardians, and the community, school counselors facilitate the support system to ensure ALL students at Lackawanna Trail have access to and are prepared with the knowledge and skills to contribute at their highest level as productive members of society.

School Counseling Vision Statement

To provide data driven counseling services that support the continuous improvement efforts of our schools so that ALL students will succeed. Counselors develop and implement a comprehensive Developmental Guidance Program that: Supports students' accomplishments; Facilitates the efforts of students, parents/guardian, school staff, community, and business partners; Attends to the needs, interests, and challenges related to each stage of student development and education; Facilitates students' transition through these diverse developmental and learning stages.

School Counseling Services:

- Individual and small group counseling (short term solution-focused interventions)
- Provides academic, personal/social, and career counseling
- Classroom lessons throughout the year on career development
- Crisis intervention counseling
- Conflict resolution and peer facilitation
- Consultation/collaboration
- Referrals to outside services (including mental and physical health)
- Advocate for individual students and for positive change in the school and in the district

SOCIAL EMOTIONAL LEARNING (SEL)

The Lackawanna Trail School District will utilize the Collaborative for Social-Emotional Learning (CASEL) framework to promote and instruct students' social, emotional, and academic development across the following competencies:

1. Self-Awareness
2. Self-Management
3. Social Awareness
4. Relationship Skills
5. Responsible Decision-Making

Specifically, the Lackawanna Trail Jr. Sr. High School utilizes the Navigate 360 software and the School-Connect curriculum to supplement instruction in each of the aforementioned competencies. Additional SEL programming may be provided that is not assessed as part of the required curriculum.

SPECIAL EDUCATION SERVICES

Emotional Support Services

The Lackawanna Trail Junior Senior High School offers a continuum of support to 7th and 8th grade students in the Emotional Support program through both Itinerant and Supplemental levels of support. Students may receive instruction in the regular education setting with or without a special education teacher/para-educator. Students in the program may also receive social skills instruction and/or school-based social work, and/or additional academic support with Learning Support faculty, when appropriate. Students in the emotional support program are supported through the use of Positive Behavior Support Plans.

Emotional support students also receive transition services in their IEPs with emphasis on skills for employment and post-secondary education, as well as independent living skills, as determined by the individual student's IEP team.

Learning Support Services

The Lackawanna Trail Junior Senior High School offers a continuum of support to 7th and 8th grade students in Learning Support that includes Itinerant, Supplemental, or Full-Time Support. Learning Support Services are provided both in the regular and special education setting. Students may receive instruction in the regular education setting with or without a special education teacher/para-educator. Students may receive instruction for English Language Arts or Mathematics in the resource room and may be provided other academic supports as needed in the resource room. Structured Study Hall is a class scheduled in the resource room that allows time for additional academic support for students with disabilities.

Learning support students receive transition services in their IEPs with emphasis on skills for employment and post-secondary education, as well as independent living skills, as determined by the individual student's IEP team.

Life Skills Support Services

The Lackawanna Trail Jr. Sr. High School offers Life Skills Services in the special education setting with appropriate inclusion in the regular education setting. Life Skills support focuses on functional and academic skills. At the Junior High School and High School level, there is emphasis on transition planning that includes skills for employment and independent living, as well as postsecondary education. Out of district placements for transition programming are utilized, when determined appropriate by the individual student's IEP team.

Life Skills students will receive individual and small group instruction in the life skills classroom, as per their IEP. Students spend time with same-aged peers in the regular education classroom, as per their IEP.

SENIOR HIGH COURSE DESCRIPTIONS

***Some elective courses require mandatory attendance after the school day. These elective courses will be indicated by asterisks (**) before the course name. These elective courses should be discussed with the guidance counselors and teachers to best determine if you can fulfill the obligations of these elective courses.*

ART

Art I - 1 Credit

This course initiates a comprehensive Introduction to the visual arts, designed for all students in grades 9-12, and is not limited to the artistically talented. Creative studio project units in drawing, painting, printmaking, sculpture, ceramics, crafts, and computer graphics are integrated with lessons in the basic language known as the Elements of Art. Artists and works of art are also linked to lessons in order to familiarize students with the way art is created, its history and diversity, and its pervasive impact on our lives. Art-related careers are also explored. Student portfolios will be introduced and developed to establish a record of personal progress in and through art learning, understanding and hands-on activities.

Art II - 1 Credit

Recommendation - successful completion of Art I. This course is designed for students who wish to broaden and enrich a continuing interest in art. We will review and build upon the Art Elements foundation established in Art I. Learning and understanding will expand to include the Principals of Art and Design integrated with creative expressions, using a variety of traditional art media. Student art portfolios will continue to record progress in art studio and art-related knowledge and understanding.

Honors Art III/IV - 1 Credit

Students who schedule this advanced art class will be challenged to more complex skills, techniques and understanding in the visual arts. Over this two-year curriculum, studio work in two- and three-dimensional media will incorporate the Elements and Principals of Art, and will be coordinated to a comprehensive study of the history of art. Other important components of this course include sketch - journals, portfolio development, independent studio work, art research projects, Art Criticism, post-secondary art schools, and art-related careers. This course is weighted at 108 percent of the grade achieved.

BUSINESS TECHNOLOGY

Word Processing - 1 Credit

This course is designed for those students who have limited experience with computers and will begin with the basics of computer use. Students will learn correct keyboarding techniques with an emphasis on both speed and accuracy. Students will learn the correct formatting of various business documents. Both Micro Type and Microsoft Word software will be used for this course.

Computer Applications - 1 Credit

Since Microsoft Word is the number one selling word processing program in the world, this course is designed to teach students to create documents that can be enhanced to perfection using the many features that Word offers. After mastering Word, students will learn how to use Microsoft Excel to set up and manipulate spreadsheets. Next, students will learn how to create presentations using Microsoft PowerPoint. PowerPoint is the most widely used presentation software in the world today and is considered to be among the most prevalent form of persuasion technology. Lastly, students will complete a number of projects using the Internet to gather information and conduct research using various search engines.

Computer Programming - 1 Credit

This course is designed to teach the fundamentals of computer programming. The first semester will be spent using the Visual Basic programming language. Students will learn the basics of object-oriented programming and event-driven programming by working with forms, controls, and properties. Time will be spent completing hands-on projects covering topics such as calculations, data, variables, decision making, looping, menus, and graphics. During the second semester students will be introduced to the world of web page design. They will use HTML and JavaScript for the creation of web pages. They will learn to search for and retrieve information using the internet. Internet safety will also be addressed.

Accounting I - 1 Credit

Students receive preparation for the real business world by being given an insight into the operation, function, and internal workings of a business enterprise. The course will introduce basic accounting concepts, principles, and procedures. Students will complete accounting cycles for a service business operating as a proprietorship and a merchandising business operating as a corporation. This course will help to prepare students to enter college as a business major.

Accounting II - 1 Credit

This advanced course in accounting is designed to increase the competency of the student dealing with situations on a higher level. It provides the student with the opportunity to apply the basic principles that were learned in the first-year course to a variety of accounting systems and methods that are commonly found in business. Departmentalized accounting systems will be emphasized.

ENGLISH LANGUAGE ARTS

College & Career Readiness – 1/2 credit

This course will explore topics related to post-secondary transition to college, career, workplace, and/or the military. The course aims to support high school students in the completion of college applications, applying for scholarships, completing the FAFSA, and preparing for job interviews with a professional resume. Personal development, social-emotional wellness, and mental health, in addition to assisting with practical requirements for a successful transition to continuing education and adulthood will also be discussed. Additional topics include but are not limited to: making college and career decisions, setting personal priorities, managing emotions and stress, maintaining healthy relationships, problem-solving, empathy for others, and applied leadership skills.

English I - 1 Credit

This English course is divided into four aspects: Literature, grammar, vocabulary, and composition, with oral activities related to all four. Literature covers both American and World literature, including units on the short story, non-fiction, poetry, drama, and the novel. Outside reading is based on young adult literature and classical novels. Grammar is integrated with composition and vocabulary whenever possible, and students work on individual units on some occasion. Some vocabulary words are taken from literature or current affairs, with emphasis on relating the topics to the students' own lives. Students are encouraged to consider long-range purposes for developing their reading, writing, and speaking skills.

Honors English I - 1 Credit

This course is offered to students who choose to begin an accelerated study of English. The course will concentrate on grammar and vocabulary skills by using writing techniques and assignments, including a research paper. Short stories, drama, novel, poetry, and non-fiction will be studied. This course is weighted at 108 percent of the grade achieved. Students selecting Honors English will be required to complete a summer reading assignment of at least one text assigned by the course teacher. This assignment will be assessed during the first week of school. *Students will also be required to complete an independent reading assignment of at least one text assigned by the course teacher throughout the second and third quarters to be assessed at the end of each respected quarter.*

English II - 1 Credit

Literature in the tenth grade will concentrate on a deeper study of all genres including fiction and non-fiction, poetry, short stories, and novels. There will be an emphasis on literary techniques as applied to reading and writing skills. Writing will be in various forms, including research. Vocabulary will also be part of the course of study, along with speaking and listening skills. Grammar lessons will be incorporated into writing activities. The Keystone Literature Exam is administered at the conclusion of English II.

Honors English II - 1 Credit

This course is offered to college-minded sophomores who would like an accelerated study of English. Students will read literary works in various genres including fiction and non-fiction, drama, poetry, short stories, and novels. Literature will be analyzed for historical information, plot, theme, and style. There will be an emphasis on literary techniques as applied to reading and writing skills. Writing will be in various forms, including research. Vocabulary will also be part of the course of study, along with speaking and listening skills. Grammar lessons will be incorporated into writing activities. This course is weighted at 108 percent of the grade achieved. The Keystone Literature Exam is administered at the conclusion of Honors English II. Students selecting Honors English will be required to complete a summer reading assignment of at least one text assigned by the course teacher. This assignment will be assessed during the first week of school. *Students will also be required to complete an independent reading assignment of at least one text assigned by the course teacher throughout the second and third quarters to be assessed at the end of each respected quarter.*

English III - 1 Credit

This course is designed to help juniors develop critical reading and communication skills necessary for post-secondary careers. This course will familiarize students with the concepts and skills associated with English by developing oral and written skills. These skills will be developed through a study of American literature, composition, vocabulary, and grammar. Research skills and the proper development of a research paper will be examined. Remedial topics will be included for students who do not score proficient on the Keystone Literature Exam.

Honors English III- 1 Credit

Honors English is offered to juniors who would like an accelerated study of English to help prepare them for college. A proficient score or better on the Keystone Literature Exam is required as a prerequisite. English skills will be developed through a study of American literature, composition, vocabulary, and grammar. Research skills and proper development of research papers will be covered in this course. This course is weighted at 108 percent of the grade achieved. Students selecting Honors English will be required to complete a summer reading assignment of at least one text assigned by the course teacher. This assignment will be assessed during the first full week of school. *Students will also be required to complete an independent reading assignment of at least one text assigned by the course teacher throughout the second and third quarters to be assessed at the end of each respected quarter.*

English IV - 1 Credit

This course is designed to help seniors develop critical reading and communication skills necessary for post-secondary careers. This course is designed to familiarize students with the concepts and skills associated with English by developing oral and written skills. These skills will be developed through a study of English literature, composition, vocabulary, and grammar. Research skills and the proper development of a research paper will be examined.

English 12 - 1 Credit

This course is offered as an alternative to English IV. The content will include communication, language arts, and essential English skills. This class combines English language skills with practical application of language suitable for a workplace. English 12 focuses on project-based learning, non-fiction readings, and workplace vocabulary. Students will engage in the practical application of English through real-life scenarios including resume writing, workplace communication skills, collaborative work, and growing a professional work ethic.

Honors English IV - 1 Credit

Honors English IV is offered to seniors who would like an accelerated study of English to help prepare them for college. A proficient score or better on the Keystone Literature Exam is required as a

prerequisite. This course is designed for students who have an Honors English background. English skills will be developed through study of English literature, composition, vocabulary, and grammar. Research skills and proper development of college-level research papers will be covered in this course. This course is weighted at 108 percent of the grade achieved. (*This course may be considered for credit at Keystone College as part of our Dual Enrollment Agreement). Students selecting Honors English will be required to complete a summer reading assignment of at least one text assigned by the course teacher. This assignment will be assessed during the first full week of school. *Students will also be required to complete an independent reading assignment of at least one text assigned by the course teacher throughout the second and third quarters to be assessed at the end of each respected quarter.*

Advanced Placement English - 1 Credit

This course is designed to develop the student's ability to read selected poems and passages analytically. A proficient score or better on the Keystone Literature Exam is required as a prerequisite. Students will write critical or analytical essays based on given critical statements, poems, and prose passages that are one of the following: narrative, exposition, or argument. This course is designed to be the equivalent of the general English course usually taken during the first year of college. Research skills and the construction of college-level academic research papers will be developed at the end of this course. This course is weighted at 110 percent of the grade achieved. (*This course may be considered for credit at Keystone College as part of our Dual Enrollment Agreement.) Students selecting Advanced Placement English will be required to complete a summer reading assignment. This assignment will be due on the first full day of school.

Advanced Placement Research - 1 credit

(Note: AP Seminar is a prerequisite for AP Research. Completing AP Seminar and all its required assessment components are necessary for students to develop the skills to be successful in AP Research.) AP Research, the second course in the AP Capstone experience, allows students to deeply explore an academic topic, problem, issue, or idea of individual interest. Students design, plan, and implement a yearlong investigation to address a research question. Through this inquiry, they further the skills they acquired in the AP Seminar course by learning research methodology, employing ethical research practices, and accessing, analyzing, and synthesizing.

Honors Creative Writing - 1 Credit

Open to juniors, seniors, and invited sophomores, Honors Creative Writing I is an **advanced English course** that focuses on producing manuscripts for print in fiction, nonfiction, poetry, and drama genres. Students will read masters of the craft and study genres of creative writing including narrative non-fiction, Young Adult, Science Fiction/Fantasy, epics, romance, poetry, and graphic novels, while exploring the conventions of writing in each genre. A discussion of publishing will provide students with practical information for submitting their work for publication. Students must meet the requirements for Honors courses in their previous year's English course (93% average or better in last general English course and/ or 85% average or better in a related Honors English course). This class is designed for students who have a passion and talent for writing and who seriously want to improve their work.

Honors Creative Writing II - 1 Credit

This honors course will be offered jointly with Honors Creative Writing I and is open to students who have successfully completed that course over the previous year. In addition to the usual writing assignments, students in Creative Writing II will earn their honors credit by participating in the class blog, independent work on a novel or screenplay, or through a portfolio evaluation of the students' best work. Students who plan to write for publication as part of a future career are encouraged to select this class.

FAMILY AND CONSUMER SCIENCE

Interior Design - 1 Credit

This course is designed to acquaint the student with the basic elements of design in order to create a home that reflects a personal sense of style. The aim of the course is to emphasize the importance of a home to a person's physical and mental well-being. It provides practical tips to ensure a pleasant and safe home while exploring design, economy, and organization within the confines of feasibility for home improvement projects. Topics will include: wall covering techniques, fabric selection, color palette and a comprehensive home design as a final project.

Food Science and Nutrition - 1 Credit

This course addresses the nutritional implications of dietary choices. It provides the student with a basis for making healthy decisions regarding diet and lifestyle. It examines the dietary requirements for optimum health and the consequences of the lack of proper nutrition. Balanced meal planning, shopping for food within a budget and healthy weight management are some of the topics explored, as well as nutrient requirements for age/weight, nutritional causes for physical ailments and comparison of food composition, i.e. fast food vs. home-cooked food and actual vs. recommended food portions.

Consumer Science - 1/4 Credit

This course is designed to empower students to manage the challenges of living in a diverse, global society. The focus of this course is to address the functioning of families and their interrelationships with work, community, and society. Attention is given to the reoccurring, practical problems of individuals and families. Comprehensive classroom experiences allow students to develop the knowledge and skills needed in making choices to meet their personal, family and work responsibilities.

Introduction to Sewing – 1/2 Credit

This course is designed to provide students with essential sewing skills. The curriculum covers foundational techniques such as threading needles, learning basic hand stitches, and operating sewing machines. The course also includes an exploration of diverse fabric types, educating students on their distinct qualities and appropriate usage. Emphasizing practical application, students will engage in creating a variety of projects throughout the course, reinforcing their skills, and fostering creativity. By the course's conclusion, students will have acquired the technical expertise needed for successful basic sewing.

FOREIGN LANGUAGE

Spanish I - 1 Credit

This course is devoted to developing basic habits and skills in language learning. Listening, speaking, reading, and writing are emphasized. The culture of the target language is interwoven in the dialogues, in the narratives and in the related vocabulary. The cultural emphasis at this point is to give students an understanding of the way in which the people of the Hispanic world live.

Spanish II - 1 Credit

This course continues to develop the habits and skills in listening, speaking, reading, and writing Spanish. The development of a better understanding and appreciation of Spanish-speaking countries is achieved by utilizing closely related dialogues and narrative materials. The cultural emphasis, therefore, is to give students an understanding of and appreciation for, the customs of Hispanic people.

Honors Spanish III - 1 Credit

This course continues developing habits and skills in the target language in greater depth and complexity. The cultural and appreciative aspects of the language are an integral part of the materials utilized. This course is weighted at 108 percent of the grade achieved.

Honors Spanish IV - 1 Credit

This course continues to reinforce the development of proficiency in listening, speaking, understanding, and appreciation of Hispanic culture by studying its related literature. This course is weighted at 108 percent of the grade achieved. (*This course may be considered for credit at Keystone College as part of our Dual Enrollment Agreement).

French I - 1 Credit

This course begins the study of the French language. Emphasis is placed on listening, speaking, reading, and writing. Reading selections summarize grammatical constructions of each lesson and deal with various aspects of French geography and culture. Dialogue situations are emphasized in order to strengthen students' abilities to carry on conversations in the target language. Guided compositions are used to develop good writing skills.

French II - 1 Credit

This course continues to expand the four basic skills of language study. Vocabulary items become more varied, and a greater emphasis is placed on reading and writing. Grammar is studied in more depth and is taught with an emphasis on oral and written forms. Reading selections are provided in the target language to further the student's knowledge of culture and history. Students continue to practice writing skills in the French language by means of guided compositions, dialogues, and some simplified free-style work.

Honors French III - 1 Credit

This course uses real-life conversational situations, contemporary French literary works, and practical reading selections as the basis for vocabulary and grammar study. Listening, speaking, reading, and writing skills are emphasized in greater depth. Students' progress from writing guided compositions to free form. Culture studies are concerned primarily with everyday life in French-speaking society. In addition, dialogue

situations are introduced by means of which students may express themselves in style and content of today's culture. This course is weighted at 108 percent of the grade achieved.

Honors French IV - 1 Credit

This course is a history/literary/cultural approach to the study of French civilization and culture. Students are introduced to some of the high points of French history, as well as the culture of the French-speaking world. Independent reading of novels, plays, etc. is encouraged. Grammar, conversations, and composition offer students opportunities for expression in the target language. This course is weighted at 108 percent of the grade achieved.

HEALTH EDUCATION AND WELLNESS

Health 9 - 1/2 Credit

The course will take a wellness approach to several areas of health as it pertains to the student, both now and in the future. Responsible behaviors that impact the student, others, and the environment will be discussed. This course is designed to promote a healthy lifestyle and good decision-making as it pertains to this lifestyle. Topics covered in this curriculum are physical fitness, nutrition, weight loss and weight management, personal hygiene, alcohol, tobacco, drugs (both legal and illegal), and noncommunicable diseases, human reproduction, and sexuality (with an emphasis on responsible decision-making). Youth suicide awareness prevention will also be covered.

Physical Education - 1/3 of Credit

This course is designed to help students improve their skills in, and their knowledge of various athletics and lifetime sports activities. Knowledge of rules and physical techniques will be explored. Class activities will directly involve students in experiences related to various sports and personal fitness techniques with an emphasis on a wellness approach for lifetime health and fitness. This course is mandatory until 4 courses have been completed.

Advanced Physical Education (10-12) – 1/3 credit

The course is designed for the highly competitive student to compete within team and individual sport activities. The emphasis is on active participation, sportsmanship, and teamwork which can help promote a healthy and physically active lifestyle. Teacher approval is needed to schedule Advanced Physical Education and is based on prior participation in General Physical Education courses.

Weight Lifting (10-12) – 1/3 credit

This course is designed to introduce students to weight training with a focus on safety and proper technique. Students will become familiar with the equipment and gain knowledge of how to work each muscle group. The goal of this course is to gain knowledge that can lead to a lifetime of fitness.

Yoga (10-12) – 1/3 credit

This course is designed to introduce students to the basic postures, breathing techniques, and relaxation methods of yoga. In today's society, the benefits of yoga are needed more than ever to achieve wellness of the mind and body. The ultimate goal of this course is for the students to learn skills that they can utilize for the rest of their lives.

PIAA Referee Certification – 1/3 credit

This course is designed to help students become a PIAA certified official in several sports. It is only offered to seniors as an elective. By the end of the course students will be equipped to become certified in one or more PIAA sports and have an opportunity to start earning money as an official after turning 18 years old. Related topics including basic first aid and CPR are included in the course.

INTERDISCIPLINARY STUDIES

Psychology - 1 Credit

This course is designed to introduce the student to the various methods, principles, and theories of psychology as applied to the understanding of human thought, emotions, and behavior. Topics discussed include research methods, physiological foundations of behavior, growth and development, personality, stress and adjustment, social interaction, and psychological disorders and treatment.

Honors Psychology - 1 Credit

This course is designed to introduce the student to the various methods, principles, and theories of psychology as applied to the understanding of human thought, emotions, and behavior. Topics discussed include research methods, physiological foundations of behavior, growth and development., personality, stress and adjustment, social interaction, and psychological disorders and treatment. This is an independent component of this course and students are expected to research and meet various deadlines for assignments. Many primary sources and professional readings will be utilized to present the theories of psychology. This course will be weighted at 108 percent of grade achieved. (*This course may be considered for credit at Keystone College as part of our Dual Enrollment Agreement

Honors Psychology of Sport & Exercise - ½ credit

Psychology of Sport and Exercise is focused on enhancing knowledge in the field of psychology as it pertains to sport and exercise performance. The objective of the course is to provide concepts of psychology and exercise as they relate to behavioral theories, physiological processes, social psychology of sport and exercise and psychological modalities related to performance in a sport and exercise environment. Some of the topics covered include motivation, goals, competitive drive, overtraining, concentration, imagery, leadership, teamwork, coaching, injuries, eating disorders, and substance abuse. Through research & literature reviews students will consider a holistic perspective of sports and exercise.

Psychology is a required prerequisite for the Psychology of Sport & Exercise course.

Advanced Placement Research – 1 credit

(Note: AP Seminar is a prerequisite for AP Research. Completing AP Seminar and all its required assessment components is necessary for students to develop the skills to be successful in AP Research.) AP Research, the second course in the AP Capstone experience, allows students to deeply explore an academic topic, problem, issue, or idea of individual interest. Students design, plan, and implement a yearlong investigation to address a research question. Through this inquiry, they further the skills they acquired in the AP Seminar course by learning research methodology, employing ethical research practices, and accessing, analyzing, and synthesizing.

Advanced Placement Seminar – 1 credit

AP Seminar is a foundational course that engages students in cross-curricular conversations that explore the complexities of academic and real-world topics and issues by analyzing divergent perspectives. Using an inquiry framework, students practice reading and analyzing 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 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, the course aims to equip students with the power to analyze and evaluate information with accuracy and precision in order to craft and communicate evidence-based arguments. A Proficient score on the Keystone Literature exam is required as a prerequisite.

MATHEMATICS

Personal Finance - 1 Credit, Elective

This course is designed to introduce students to various personal finance and practical life skills that will be pertinent in the very near future. Through numerous practical applications, students will gain knowledge of financial fundamentals, long and short-term funding sources, banking institutions, school loans, credit and finance charges, real estate and mortgages, car loans (buying), taxes and insurances, health insurance, understanding the stock market, and saving for the future. This course will also focus on job employment techniques and strategies (resume writing and interview skills) which will become vital in a highly competitive work world. This course is an elective and cannot be used to fulfill the mathematics graduation requirement.

SAT Preparation - 1/2 Credit

This course prepares students in test-taking strategies, pacing strategies and subject specific techniques for taking the SAT and the ACT. In this class, students will familiarize themselves with the SAT and ACT and learn strategies to maximize their scores. Students will gain in-depth information on each section of the SAT, as well as the overall test format. They will then apply this information to learn how the SAT “thinks” and to develop relevant strategies. Finally, students will gain readiness skills and longer-term preparation techniques to be utilized outside the classroom.

Math Essentials -1 Credit

Students will be exposed to the mathematics of voting and apportionment, geometry as it applies to various real-world applications, statistics, consumer math topics such as credit card interest, bonds, stock, student loans, and home buying. Prerequisites for the class: Students must have at least a Math 3 background and be a senior. Familiarity with computers, PowerPoint, Microsoft Word, and Microsoft Excel would be helpful.

Algebra/Geometry Concepts I - 1 Credit

Prerequisite Math 8. This is the first in a three-course series. The topics covered in the initial course include functions, linear equations/ inequalities, graphing techniques, geometric constructions, properties of two and three-dimensional shapes, geometric transformations, operations on real numbers, estimation, measures of central tendency, statistical graphs, and basic sampling techniques.

Algebra/Geometry Concepts 2 - 1 Credit

This course will further develop the concepts covered in Math I, with an introduction to new topics which include solving systems of equations, inequalities, matrix operations, polynomial equations and functions, deductive/inductive proofs, linear regression, experimental design techniques, identifying and using varying distributions to describe populations. The Keystone Exam may be administered at the conclusion of this course.

Algebra/Geometry Concepts 3 - 1 Credit

The final course in this series is intended to complete the development of the concepts introduced in Algebra/Geometry Concepts 1 and Algebra/Geometry Concepts 2. The Keystone Exam may be administered at the conclusion of this course.

Algebra I - 1 Credit

Prerequisite - Pre-Algebra or Math 8. Algebra is the study of the properties and relations of symbols representing numbers. The student develops an understanding of algebraic structure so as to build a foundation of principles related to the real number system. Sets, the number line, operations with polynomials, linear and quadratic equations and roots are all covered. The Keystone Exam is administered at the conclusion of Algebra I.

Honors Algebra 1 - 1 Credit

This course includes the study of sets, equations, inequalities, functions, number systems, polynomials, quadratic equations, factoring and rational expressions. This course is weighted at 108 percent of the grade achieved. The Keystone Exam is administered at the conclusion of Honors Algebra I.

Geometry - 1 Credit

Prerequisite - Algebra I. This course includes plane, solid, and coordinate geometry along with an introduction to trigonometry. Units of study include form and logical structure, geometric figures, logic and problem-solving.

Spatial Geometry/Honors Geometry - 1 Credit

Prerequisite - Algebra I, a proficient score or better on the Keystone Algebra I Exam. This course includes the study of plane, solid and coordinate geometry along with an introduction of trigonometry. Units of study include angles, triangles, polygons, inductive and deductive reasoning, standard theorems and proofs. This course is weighted at 108 percent of the grade achieved.

Algebra II/Trigonometry - 1 Credit

Prerequisite - Geometry, a proficient score or better on the Keystone Algebra I Exam. This is a second course in Algebra for students with average and above-average mathematical ability. It assumes an understanding of the set of real numbers and algebraic expressions in one variable. Main units of study are polynomial, rational, exponential, and logarithmic functions and their properties. Linear and quadratic functions are studied with particular emphasis on graphing in two dimensions. The course includes the fundamental concepts of matrices and determinants, sequences and series, permutations and combinations, probability, and mathematical induction.

Honors Algebra II/Trigonometry - 1 Credit

Prerequisite - Geometry, a proficient score or better on the Keystone Algebra I Exam. This course includes the study of the structures of mathematics, sets, number systems, linear and quadratic equations and inequalities. Other topics include systems of equations, rational expressions, functions, logarithms, complex numbers, and conic sections. This course is weighted at 108 percent of the grade achieved.

Trigonometry/Pre-Calculus - 1 Credit

Prerequisite - Algebra II, a proficient score or better on the Keystone Algebra I Exam. This course is designed for academic students who will take higher level math courses in college. Main topics of study are the periodic nature of the circular function which relates angles with real numbers, relationships among circular functions, identities and trigonometric equations. Vectors are studied as ordered pairs of real numbers. Coordinate geometry of two dimensions, gives emphasis to the study of conic sections, is also covered.

Honors Trigonometry/Pre-Calculus - 1 Credit

Prerequisite - Algebra II, a proficient score or better on the Keystone Algebra I Exam. This course is a study of trigonometry combined with an introduction to calculus. Topics from trigonometry include the trigonometric functions, graphs, identities, and the solution of triangles. Topics from calculus include functions, limits, differentiation, and the applications of derivatives. This course is weighted at 108 percent of the grade achieved.

Advanced Placement/Honors Calculus - 1 Credit

This course is intended for students who wish to major in mathematics, engineering, science, or business administration. Included in the study are functions, limits, continuity, differentiation and integration, parametric equations, and infinite series. This course is weighted at 110 percent of the grade achieved. The course curriculum will be reflective of the current AP requirements in Calculus. (*This course may be considered for credit at Keystone College as part of our Dual Enrollment Agreement.)

Honor Calculus II – 1 Credit

Honors Calculus II is offered as an independent study course only. The course includes a review of anti-differentiation techniques, as well as finding integrals and applications of integrals. Students will also explore sequences, series, parametrics, vectors, and polar functions. Students who sign up for this course must have a 95 or higher in A.P. Calculus AB which is a prerequisite. Because it is an independent study, this course will only be offered to students who indicate an interest to their A.P. Calculus AB teacher prior to the completion of A.P. Calculus. The availability of the course and the eligibility of interested students will be evaluated prior to approval.

Statistics - 1 Credit

Prerequisite - Algebra I and Geometry, a proficient score or better on the Keystone Algebra I Exam. The purpose of this course is to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to four broad conceptual themes: exploring data, planning a study, anticipating patterns, and statistical inferences.

Honors Statistics - 1 Credit

Honors Statistics is a course focused on four broad areas: Exploring Data: Describing patterns. Sampling and Experimentation: Designing and conducting a study. Exploring Random Events: Using probability theory and simulation to study and anticipate patterns. Statistical Inference: Estimating population parameters leading to formulating and testing hypotheses. Prerequisite: Must meet or exceed honors requirement for Honors Algebra II/Trigonometry. Course will be offered based on enrollment. This course is weighted at 108 percent of the grade achieved. (*This course may be considered for credit at Keystone College as part of our Dual Enrollment Agreement)

MUSIC

***Numerous attendance commitments outside the posted school hours are to be expected and will be integrated as a mandatory element of music courses; this will include a minimum of 3 performances per year, attendance at other musical events both inside the district and outside the district (i.e.: Lackawanna Trail Choral concerts and Elementary Center concerts), in addition to extra after school rehearsals. In the event of extreme hardships or situations, alternate assignments may be presented to the student. These assignments will be designed to provide a similar educational experience and will be comprehensive in nature. Pennsylvania State Standards will be presented and upheld throughout the course of study.*

Honors Band Course description - 1 credit

Honors Concert Band is open to all 10th - 12th grade students with prior band experience. Students must maintain a 90 grade point average in the previous year to be considered for the class. Honors concert band students will be required to complete the non-honors Concert Band curriculum as well as additional graded sight-reading, theory, and playing exams. Students in this class are required to demonstrate independent instrumental competence and music skill proficiency at an accelerated pace. Honors Concert Band members will also be required to complete a quarterly music-based project and perform at various school and community functions.

**Concert Band – 1 Credit

This is an elective credit course open to interested students with an intermediate to advanced background in the performance and study of instrumental music of the band genre. Students without said background may request entrance in the course and will be considered by the Director of Bands on a case by case basis. The course will prepare the students to engage in and successfully execute a musically mature concert band program; the students will be trained in the art of small ensemble music and will be guided towards successful performance on their individual instrument as well as unified performance as an ensemble. The guidance will include individual playing tests, memorization, and individual practice, in accordance with the Pennsylvania State Standards. Students will be assessed through alternative assessment techniques such as self-critiques and group ensemble evaluations. Scale tests, playing tests, and more formal evaluations will also take place. Daily practice is to be considered homework.

This ensemble will perform publicly at least 3 times per year. Students will be required to attend concerts by other Lackawanna Trail ensembles, either at the high school or at the elementary center.

**Chrysalis (Women's Chorus) - 1 Credit

This ensemble meets daily. Membership is chosen by audition only. Vocal ability, as well as an interest in choreography is an essential requirement. Once accepted into this ensemble, students are required to attend all public performances and adjudications. Chrysalis performs contemporary music in many styles such as jazz, blues, pop, Broadway, and rock. Music chosen will develop the vocal style known as the "Broadway belt" with emphasis on proper vocal production and breath support.

- This ensemble will perform publicly at least 2 times each academic year at Lackawanna Trail High School.
- Participation in each performance is mandatory and will be recorded as an exam grade.
- Failure to participate in a public performance will require a make-up exam. Exam requirements will be outlined in the course syllabus.
- Each student will be asked to purchase a performance T-shirt to be worn for performances, field trips and other special events.
- Any invitations to perform for the community will be regarded as an additional mandatory performance. All students are required to participate.
- Grades are based on daily participation, monthly vocal exams, vocabulary quizzes and public performances.
- While the ensemble meets every day, additional practicing at home may be required.
- Students are required to attend performances given by other Lackawanna Trail ensembles in the Fall and Spring.

Guitar for Beginners – ½ Credit

This course is designed for students to learn skills to perform simple acoustic guitar music. Students enrolled in this course will learn how to play simple melodies, basic chord structure, and be able to read guitar chords and tablature. Students will perform in an ensemble environment and be provided individualized instruction during class. This course is not designed for students with advanced guitar skills and experience. Class size is limited to 10 students.

**Madrigal - 1 Credit

This ensemble meets daily. Membership is chosen by audition only. Vocal ability as well as a desire to develop sight reading ability is an essential requirement for admission. Once accepted into this ensemble, students are required to attend all public performances and adjudications. The Madrigal Singers perform music on the highest caliber from all periods of music history. Repertoire includes pieces in English as well as foreign languages. Music chosen will develop vocal technique, sight reading ability, and expose young performers to styles and forms found historically. Repertoire will be SAB and as well as SATB music as recommended by Music Educators National Conference and American Choral Directors Association.

- This ensemble will perform publicly at least 3 times each academic year.
- Participation in each performance is mandatory and will be recorded as an exam grade.
- Failure to participate in a public performance will require a make-up exam. Exam requirements will be outlined in the course syllabus.

- Grades are based on daily participation in class, monthly vocal exams, all public performances, in-class assessments, and occasional theory tests.
- The music rehearsed and performed will be of the highest level, be from all periods of music history and will require the student to commit to musical excellence. Practicing at home may be required.
- Students will be required to attend concerts by other Lackawanna Trail ensembles, either at the high school or at the elementary.

Honors Madrigal Course Description – 1 credit

Honors Madrigal is open to all 10th-12th grade students with prior high school choral experience. Students must maintain a 90 grade point average in the year prior to be considered for the class. Honors Madrigal students will be required to complete the non-honors Madrigal curriculum as well as additional graded sight-reading, theory, and vocal exams. Students in this course are required to demonstrate independent vocal competence and music skills proficiency at an accelerated pace. Honors Madrigal students will also be required to complete a quarterly music-based project and perform at various school and community functions.

**Concert Chorus (mixed ensemble) - 1 Credit

This ensemble meets daily and is open to any student in grades 9 – 12 interested in singing. Vocal ability as well as an interest in performing in public is necessary. The chorus will perform music in many voicings and will include music from all eras and musical styles as chosen from the guidelines of Music Educators National Conference and American Choral Directors Association. Students interested in this ensemble should be aware:

- This ensemble will perform in public 2 times each academic year.
- Participation in each performance is mandatory and will be recorded as an exam grade.
- Failure to participate in a public performance will require a make-up exam. Exam requirements will be outlined in the course syllabus.
- Grades are based on daily participation in-class, monthly vocal exams, all public performances, and in-class assessments.
- Any student interested in becoming a member of this ensemble must see the Director before registering with the guidance office.

Music Theory - 1 Credit

This course is designed for student enrichment in the principles underlying written music from the Common Practice Period (1650 – 1900). Students will study the history of the Common Practice Period and composers from said period. Music from other periods is also studied. Students should expect homework assignments, in-class singing, and basic keyboard studies. The final exam for the class is a students will learn to notate pitch and rhythm, recognize intervals, and harmonize melodies. At the end of the course, students will be able to:

- Notate pitch and rhythm in accordance with standard notation practices.
- Read melodies in treble, bass, and movable C clef.
- Write, sing, and play major scales and all three forms of minor scales

- Recognize by ear and by sight all intervals within an octave.
- Use the basic rules that govern music composition.
- Harmonize a melody with appropriate chords using good voice leading.
- Analyze the chords of a music composition by number, name, and letter name.
- Express musical ideas by composing and arranging.
- Understand and recognize basic musical forms: ternary, binary, rondo, etc.
- Transpose a composition from one key to another.
- Identify musical composition periods by style.
- Write simple rhythmic, melodic, and harmonic ear training.

Honors Music Theory – 1 credit

This course is designed for music students who are interested in pursuing music as a career and studying music in college. Students interested in this course should expect to learn to recognize, understand, and describe the basic materials and process of music outlined in the non-honors music theory course including listening, reading, writing, studying, and performing a wide variety of music as well as developing skills in identifying features of pitch, interval, scales and keys, chords, meter, rhythms, and other musical concepts performed and notated in music. Other skills developed in this course include signing a notated melody on sight and notating music that you hear. This course will follow the AP Music Theory syllabus but is not yet Advanced Placement certified. Course completers will be prepared to take the AP Music Theory exam if they choose to do so.

Piano Keyboarding Skills I - ½ credit

This course is open to students who want to begin a study of music or enhance their knowledge and skills by learning the piano/keyboard. It will be taught in a group or ensemble setting with emphasis on music reading and basic piano technique. Students will also learn to read chord symbols and improvise. Opportunities to collaborate, compose, and arrange will be included in lessons. Music will be studied from a variety of genres, ranging from classical to contemporary.

Theater Arts - ½ credit

This course is open to all students with an interest in theater. Students will learn basic theater terminology and principles of stage movement and vocal production. The course will include a variety of topics, including theater history and the fundamentals of staging a play (acting, directing, lighting, scenery, and costume design).

SCIENCE

Physical Science - 1 Credit

This course will introduce the chemical and physical aspects of matter. Upon learning basic properties of matter, students will apply their knowledge in laboratory experiments. The physical science curriculum is reflective of the newly adopted Pennsylvania Integrated Standards for Science, Technology & Engineering, and Environmental Literacy and Sustainability (2023). The course integrates the use of inquiry-based learning, problem-solving, critical thinking, and authentic exploration of scientific principles and phenomenon. After completing this course students will be better prepared to make everyday decisions in life or continue their study of matter in chemistry or physics.

Honors Physical Science - 1 Credit

This course will introduce students to foundations in Physics and Chemistry. Unit One explores methods in experimental research and design. In unit two students are introduced to Newton's Laws of Motion. Unit Three explains how atomic structure influences chemical properties including the formation of chemical bonds. Unit four introduces concepts relating energy to waves, light and sound. The physical science curriculum is reflective of the newly adopted Pennsylvania Integrated Standards for Science, Technology & Engineering, and Environmental Literacy and Sustainability (2023). The course integrates the use of inquiry-based learning, problem-solving, critical thinking, and authentic exploration of scientific principles and phenomenon. In the honors course, students will design conduct, interpret, and publish an Experimental Research Project. Student projects will be considered for presentation in the Junior Academy of Science. This course provides a gateway into upper-level science courses. This course is weighted at 108 percent of the grade achieved.

Biology I - 1 Credit

Students will explore fundamental concepts of cell structure, cell processes, genetics, evolution, cell energetics, biochemistry, and ecology. Students will further develop their ability to write, read, and speak in the language of science. The Biology curriculum is reflective of the newly adopted Pennsylvania Integrated Standards for Science, Technology & Engineering, and Environmental Literacy and Sustainability (2023). The course integrates the use of inquiry-based learning, problem-solving, critical thinking, and authentic exploration of scientific principles and phenomenon. The Biology Keystone Exam is administered at the conclusion of this course.

Honors Biology - 1 Credit

Students will investigate the concepts of cell structure, cell processes, genetics, evolution, cell energetics, biochemistry, and ecology. The Biology curriculum is reflective of the newly adopted Pennsylvania Integrated Standards for Science, Technology & Engineering, and Environmental Literacy and Sustainability (2023). The course integrates the use of inquiry-based learning, problem-solving, critical thinking, and authentic exploration of scientific principles and phenomenon. This course is weighted at 108 percent of the grade achieved. The Biology Keystone Exam is administered at the conclusion of this course.

Biology II - 1 Credit

This course is a more advanced level of biology. The course is designed to take a deeper approach to the relationships between the structure and function at all levels of organization, genetics, evolution, and ecology. The course will also explore current issues in biological sciences.

Chemistry - 1 Credit

Prerequisite – Algebra I. This course in general chemistry is designed to meet the requirements of students intending to go on to college. The traditional topics of chemistry will be covered including atomic structure, periodic law, chemical bonding, chemical formulas and equations, stoichiometry, and phases of matter. Students will also use an inquire/discovery approach in experimentation.

Honors Environmental Science (11-12) - 1 credit

Honors Environmental Science will consist of approximately 2 quarters of forestry and 2 quarters of wildlife. Our study of forestry is based on dendrology and classification, tree coring, forest regeneration and succession, measuring forest volume, forest products, orienteering, the history of Penn's Woods, and lastly, the future of Penn's Woods. During the second half of the course we will take a look at both individual and population ecology of different species of wildlife in Pennsylvania. An in-depth study will be done on the whitetail deer, black bear, PA elk, and the wild turkey. Other forms of wildlife to be covered include birds of prey, squirrels, cotton tailed rabbit, ruffed grouse, ring-necked pheasant, bobcat, foxes, eastern coyote, beaver, otters, and fishers. A variety of activities, investigations, worksheets, field trips, audio-visual materials, and use of our outdoor woodlot will be used to explore these topics. This is an honors tract class with a prerequisite of prior honors coursework in grades 9-10. Additional research and writing is expected of the honors level.

Honors Chemistry - 1 Credit

Prerequisite – Algebra I. This course in general chemistry is accelerated to meet the needs of the highly motivated academic student. The traditional topics of chemistry will be covered with an emphasis on mathematics and problem-solving, using laboratory work for reinforcement of the topics. This course is weighted at 108 percent of the grade achieved.

Honors Chemistry II - 1 Credit

Prerequisite – Honors Chemistry I. This general chemistry course is a continuation of Honors Chemistry I. Traditional chemistry topics will be covered with an emphasis on mathematics and problem-solving, using laboratory work for reinforcement of the topics. This course is weighted at 108 percent of the grade achieved. (*This course may be considered for credit at Keystone College as part of our Dual Enrollment Agreement)

Physics - 1 Credit

Prerequisite – Algebra I, Geometry, and enrolled in Algebra II. The classical topics in physics will be covered with a strong emphasis on mathematical problem-solving. These topics will include energy, vectors, velocity and acceleration, concurrent and parallel forces, motion and momentum, and fluid dynamics.

Honors Physics I - 1 Credit

Prerequisite – Algebra I, Geometry, and enrolled in Algebra II. This course is designed for the college-bound student who will need a background in classical physics. With supportive experimentation, much emphasis is placed on the mathematical approach in understanding the topics. Topics to be covered include energy, vectors, velocity and acceleration, concurrent and parallel forces, motion and momentum, and fluid dynamics. This course is weighted at 108 percent of the grade achieved. (*This course may be considered for credit at Keystone College as part of our Dual Enrollment Agreement)

Honors Physics II - 1 Credit

Prerequisite-Honors Physics I. This course is a continuation of Honors Physics I. Topics to be covered include thermodynamics, waves, optics, electrostatics, and electrodynamics. This course is weighted at 108 percent of the grade achieved.

Earth and Space Science - 1 Credit, 11th/12th Grade Elective

This course is designed to build on students' knowledge from previous science courses and apply that knowledge in understanding the complex systems of the Earth, the solar system, and the universe. Students will use research, technology, projects, and hands-on activities to explore topics ranging from the basic properties of energy and matter to the formation of the solar system. Special attention will be given to understanding the processes that continually shape the Earth and investigating the relationships between its many living and non-living systems.

Honors Anatomy and Physiology - 1 Credit

Prerequisite - Biology, and it is recommended to have a grade of 85 or better in a previous science class. Advanced Science is for senior students who have both "interest" and ability in the science area. Emphasis will be on a biochemical/ anatomical approach to the biological sciences. This course is weighted at 108 percent of the grade achieved. (*This course may be considered for credit at Keystone College as part of our Dual Enrollment Agreement).

Environmental Science - 1 Credit

This course will cover components of forestry and wildlife. The forestry component will cover dendrology and classification, tree coring, forest regeneration and succession, measuring forest volume, forest products, orienteering, the history of Penn's Woods and the future of Penn's Woods. The wildlife portion of the course will cover both individual and population ecology of different species of wildlife in Pennsylvania. An in-depth study will be done on the white-tailed deer, black bear, PA elk, and wild turkey and other species found in PA. A variety of activities, investigations, worksheets, field trips, audio-visual materials, and use of our outdoor woodlots will be used to explore these topics.

Honors Astronomy - 1 Credit

This course in general astronomy is accelerated to meet the needs of the highly motivated academic student. Following a brief review of the solar system, students will study the evolution of astronomical theory and the methods used by astronomers to study the cosmos. Students will study stars and stellar evolution including stellar birth, stellar life cycles and the variety of stellar deaths a star may encounter. The course will finish with a study of galaxies and cosmology including an analysis of the Milky Way, an overview of galactic classification and distribution and theories regarding the birth and death of the universe. The course is weighted at 108% of the grade achieved.

SOCIAL STUDIES

American History I - 1 Credit

This course examines the historical origins of the United States from the period of Discovery until the Civil War and Reconstruction Era. Students will learn about the important political and economic factors that influence colonization and contributed to the American Revolution as well as the consequences of the Revolution, including the writing and key ideas of the U.S. Constitution and the frameworks of American democracy. This course will continue with the events that contributed to the political, economic, and social changes that existed in the U.S. in the 19th century concluding with the Civil War.

Honors American History I - 1 Credit

This course examines the historical origins of the United States in great depth and at an accelerated pace from the period of Discovery to the Civil War and Reconstruction Era. Students will learn about the important political and economic factors that influenced colonization and contributed to the American Revolution as well as the consequences of the Revolution, including the writing and key ideas of the U.S. Constitution and the frameworks of American democracy. This course will continue with the events that contributed to the political, economic, and social changes that existed in the U.S. in the 19th century concluding with the Civil War. A variety of primary and secondary resources will be utilized to convey the events of U.S. History. This course is weighted at 108 percent of grade achieved.

American History II - 1 Credit

This course provides special attention to the social, economic, and political aspects of American History. Much of the material presented is organized in a topical rather than a chronological manner, and the inquiry approach is used to a great extent. The course begins with an examination of the Post-Reconstruction and The Gilded Age moves along at a brisk pace to America today. The course focuses a great deal of attention on America's rise as an industrial and world leader and finishes up by looking at where America is headed in the 21st-century. A combination of textbook reading, lectures, films, maps, and outside readings are used throughout the course.

Honors American History II - 1 Credit

This course is similar to American History II. Differences include a faster pace, the opportunity to study in greater depth topics of special interest and opportunities for students to do research and write a research paper as well as to debate a question of special interest to the student. This course is weighted at 108 percent of the grade achieved.

Civil War and Reconstruction – ½ credit

This course will examine the American Civil War as a conflict that defined the United States. We will take a broad view of political, social, military, and economic aspects of this period. Students will study and discuss the impact of battles and leaders who were key to shaping events. The course will use a variety of primary and secondary sources to help students develop a sophisticated understanding of how the conflict impacted public opinion about the Union and slavery. We will also investigate the challenges and failures of Reconstruction and what it meant to be an American.

Law and Government - 1 Credit

We interact with different divisions of our federal, state, and local governments on an almost daily basis. Young adults should know how their government works, their roles as citizens in our country, and why they play such an important role in our government process, along with every other American citizen. This course teaches students how our democratic system of government operates, the role of the electoral process, and how the government impacts on their daily lives. Yet we must realize that ours is a law-based society. Citizens, especially young adults, want to know their rights and responsibilities under the law. This course also allows students to develop a better understanding of the American legal system and their rights and responsibilities under the law. Some of the other areas to be covered include criminal and juvenile justice, torts, and individual rights. This course is designed to allow students to develop their

problem-solving abilities and uses newspapers and magazines to supplement the text to make discussions especially timely.

Honors Law and Government - 1 Credit

This course prepares students to interact with current government organizations and understand the impact of local, state, and federal government on the lives of everyday citizens. It teaches students how our democratic system operates, the role of the electoral process, our criminal justice system, civil law, individual liberties, and our rights as citizens under the law. There will be an emphasis on case studies to develop a better understanding of the legal process. This course is weighted at 108 percent of the grade achieved.

Honors Sociology - ½ credit

Students explore the five domains of sociology through research & literature: sociological perspective and methods of inquiry, social structure, social relationships, stratification and inequality. The goal of the course is to support students in learning the theories, methodologies, and practices of sociology which helps students think critically about the world they live in, themselves, and how they are influenced by their social positions.

News and Current Events – ½ credit OR 1 credit

The purpose of the News and Current Events class is to develop a greater understanding for students of the interactions of the United States on both a domestic and foreign policy level in real time. This is advanced through the use of daily news reports and a combination of analysis of the event as well as student based internet research to provide background information to enhance understanding. We will review issues such as political developments in the lawmaking process, high profile criminal cases, and interactions with other countries. In addition, we will use various news sources that approach topics from their own political perspectives and attempt to develop an assessment of the validity of this reporting.

World History - 1 Credit

This course covers the major events and achievements from the Renaissance and Reformation to the modern world. Emphasis is on the growth of European nations, exploration, the Enlightenment and revolution, the Industrial Revolution and the New Global Age, World Wars and revolutions and the world since 1945.

Honors World History - 1 Credit

This course will cover the major events and achievements from the Renaissance and the Reformation to the modern world. Emphasis is on the growth of the European nations, exploration, the Enlightenment, and the revolution, the Industrial Revolution and the New Global Age, World Wars and revolutions, and the world since 1945. This class will study specific events and individuals to greater depth using a variety of research techniques and various primary sources. This instruction will be done on a quicker pace than the general World History course. (*This course may be considered for credit at Keystone College as part of our Dual Enrollment Agreement)

Advanced Placement U.S. History - 1 Credit (Offered 2024-2025)

This course has been developed to prepare students for the College Boards Advanced Placement Test in American History. Students will utilize primary source materials in order to develop understandings of how individuals have altered the course of American History. Students will develop understandings of not only what happened, but how and why it happened, and how it impacted (both positively and negatively) on future events in our nation's history. As the Advanced Placement exam relies heavily on student performance on essay questions, students will be expected to develop their essay writing skills throughout the year, always pointing toward the Advanced Placement test, which can earn students' college credits. This course includes a summer assignment, which includes two book review that are to be completed for the beginning of the school year. This course is weighted 110 percent of the grade achieved. (*This course may be considered for credit at Keystone College as part of our Dual Enrollment Agreement). There is a fee to take the AP test which is a requirement of this course.

Advanced Placement U.S. Government - 1 Credit (Offered 2025-2026)

This course has been developed to prepare students for the College Board's Advanced Placement Test in Government and Politics. Students will utilize primary source materials as well as texts in order to develop understandings of a variety of political and governmental systems, and students will understand the arguments that both support and critique each of these systems. More importantly, students will understand the basic writings that form the foundation of our own governmental system and will understand how these writings have impacted upon our governmental system today. As the Advanced Placement Test relies heavily on student performance on essay questions, students will be expected to further develop their essay writing skills throughout the year, always pointing towards the Advanced Placement test, which can earn students' college credits. This course is weighted at 110 percent of the grade achieved. *This course may be considered for credit at Keystone College as part of our Dual Enrollment Agreement). There is a fee to take the AP test which is a requirement of this course.

Advanced Placement World History – 1 Credit (Offered 2025-2026)

The purpose of the AP World History course is to develop greater understanding of the evolution of global processes and contacts in different types of human societies. This understanding is advanced through a combination of factual knowledge and analytical skills. The course highlights the nature of changes in international frameworks and their causes and consequences, as well as comparisons among major societies. The course emphasized relevant factual knowledge considered in conjunction with leading interpretive issues and types of historical evidence. The AP World History course offers motivated students the opportunity to immerse themselves in the processes that, over time, have resulted in the knitting of the world into a tightly integrated whole. AP World History guides students through the steps a historian would take in analyzing historical events and evidence worldwide. The course offers balanced global coverage with Africa, the Americas, Asia, and Europe all being represented. AP course grades are weighted at 110 percent of the grade achieved. (*This course may be considered for credit at Keystone College as part of our Dual Enrollment Agreement). There is a fee to take the AP test which is a requirement of this course.

TECHNOLOGY & INDUSTRIAL ARTS

Woodworking - 1 Credit

This course is designed to introduce students to elementary cabinet construction and the use of power and woodworking equipment. Emphasis will be on design, planning, construction, and work performance. Students will build a group project and select at least one individual project. This course will be useful to any student interested in increasing his/her whole life skills and their background regarding technology.

Woodworking II and III - 1 Credit

This course is designed for students who are interested in gaining more experience in the use of woodworking equipment and cabinet construction. The purpose of this course is to direct students towards the completion of more complex wood projects. Students are encouraged to use advanced joinery and craftsmanship during the fabrication and assembly of their group manufacturing project. The Woodworking III section of this course encourages further development of skills and abilities to solve woodworking problems. Students at this level will be allowed independent study and pursuit of special interests in woodworking.

Graphic Communications I - 1 Credit

This course is designed to introduce students to the various techniques and materials used in printing, commercial art, graphic communication, logo design, image manipulation and basic video editing. The main areas to be included in the course will be: silk-screening, illustration, marketing, digital photo manipulation, and basic video editing. In each of these areas artwork, image assembly, image carrier preparation, image transfer, and finishing procedures will be covered. Students interested in art, commercial art, communications, business, marketing, media printing and graphic design need this course in their background.

Graphic Communications II - 1 Credit

Prerequisites- Graphic Communication I. Students who choose this course will be able to further their knowledge in the Graphic Communication field. Advanced screen printing, advertising, design, and image manipulation will be addressed. Students taking this course should show an interest in pursuing a career in the Graphic Communication field.

Electronics I - 1 Credit

Prerequisite - Pre-Algebra. This survey course of electricity and electronics is designed to acquaint the student with many basic electrical — electronic principles and systems. Students design, produce, and evaluate individual/group electronic projects. Included in this course are the practical applications of electrical — electron theory, interactive computer-controlled test — lab equipment, troubleshooting, schematic reading and building a variety of electronic projects.

Electronics II - 1 Credit

Prerequisite - Electronics I. This course is designed to allow students to experience alternating current and differentiate from direct current applications. Students will be involved in projects, which will reinforce problem-solving skills through real-life industry examples and procedures. Included in this course are the practical applications of power transformers, interactive computer-controlled test — lab equipment, troubleshooting, schematic reading and building a variety of electronic projects.

Computer-Aided Drafting I (CAD I) - 1 Credit

This course will provide an introduction to the use of AutoCAD software for Computer-Aided Drafting. Projects will include the completion of several Orthographic Projection (3 view) and several Isometric Drawings (3D) in two-dimensional form, plus application of dimensioning techniques, and an introduction to AutoCAD's three-dimensional capabilities. Included in this course will be a study of the proper use of the Windows-based workstation and network components as related to CAD. Students will be assessed through evaluation of computer skills, software knowledge and application, individual drawings, and tests.

Computer-Aided Drafting II (CAD 11) - 1 Credit

Prerequisite— CAD I. This is a course which explains the use of AutoCAD 2012 variables providing advanced instruction in drafting principles and software application. Class activities may include auxiliary views, production drawings and 3-D designs. Emphasis will be placed on the mastery of AutoCAD's three-dimensional capabilities in the creation of solid objects and the application of rendering materials and lights. Students will be assessed through evaluation of computer skills, software knowledge and application, individual drawings, and tests.

Architectural Computer-Aided Drafting - 1 Credit

Prerequisite— CAD II. This course is designed to be a comprehensive introduction to the methods and procedures of Autodesk's Revit Architectural software. Students with interests in Architecture, interior design, landscape architecture, engineering, or industrial maintenance would greatly benefit from this course. Major components of the study will include Floor Plans, Building and Wall Sections, Elevations and Perspectives done completely in a 3-dimensional perspective. Assessment will be achieved through evaluation of software knowledge and application, completed drawings and testing.

3D Printing: From design to fabrication - 1 Credit Prerequisite— CAD II.

A new revolution of personal fabrication is happening now. This course will explore the design process from concept to 3d printed models. Students will generate sketches which then transition into 3 dimensional models using Autocad Computer Aided Design software. The model will then be converted to an STL file and uploaded to a 3d printer. Once the file has been exported, a full-scale product will be created. A total of 8 projects will be completed throughout the year. The projects can be singular or work collaboratively to make larger, more complex finished products.

Photography & Digital Media - 1 Credit

Prerequisites- Graphic Communication I. Students will learn to shoot digital photography and edit photos on photo editing software. They will work taking pictures of landscapes, portraits, and action shots. They will also create digital slideshows and photo books. Students will experiment with rudimentary computer animation techniques. Using digital video and editing software, students will film and edit short films focusing on a variety of areas such as personal biography, an interview and school-sponsored activities. Maximum Enrollment is 10 students.

Basic Home Repair - 1 Credit

This course is designed for students who have an interest in homeownership and basic maintenance that comes with owning your own residence. Topics covered will include: Basic plumbing (Copper, PVC, PEX); Drywall repair; Tile Installation; Basic Electricity (Lighting, Electrical Outlets, Switches); Roof Repair; Flooring; Furniture Repair; other home repair topics as assigned. There are no pre-requisites in any of the Industrial Arts or Technology Education courses offered at Lackawanna Trail.

Yearbook – 1 credit

This course is designed to teach students how to organize and plan their book, choose a theme, design pages, take photos, write stories, captions, and headlines, and market the product before they produce the actual yearbook for the student body! Course topics will be relevant to the yearbook building process; starting with yearbook theme selection, to photography tips, and guidance through creating the yearbook index. Evening and weekend commitments at student activities and athletic events may be required for graded assignments.

VOCATIONAL-TECHNICAL CENTER OFFERINGS

Lackawanna Trail students are eligible to apply for the vocational technical program given at the Susquehanna County Career & Technical Center and/or The Career Technology Center of Lackawanna County beginning in the tenth grade. Students must apply and be admitted by the Vo-Tech Board. The students attend the Vo-Tech for half of the day and take their required courses at Lackawanna Trail during the other half-day. Students must maintain favorable academic, disciplinary, and attendance requirements to continue enrollment at Vo-Tech. It is still mandatory that required courses be scheduled and passed at the home school in order to obtain a high school diploma. Students and parents/guardians considering this option should consult with a guidance counselor to obtain individual programs of study at each Vocational Technical Center. Programs include:

- Auto body/Collision and Repair Technology
- Building and Property Maintenance
- Business Information Technology
- Carpentry and Cabinetmaking
- Commercial Art and Design
- Computer Maintenance Technology
- Cosmetology
- Culinary Arts
- Drafting and Design Technology
- Early Childhood Care and Development
- Electrical Construction and Maintenance
- Graphic and Printing Communications Technology
- Health Care Technology
- Horticulture and Landscaping
- Plumbing and Heating Technology
- Protective Services Occupations
- Trowel Trades
- Vehicle Maintenance and Repair (Small Engine Repair)
- Welding

Career-Related Apprenticeship & Internship – 1-3 Credits

This program is for juniors and seniors who want to immerse themselves in the world of work to gain valuable skills and/or insight into specific trades and specialized employment. Students will adopt personalized Career Pathway goals and target improvement in workplace “soft skills,” through part-time employment. Students are expected to work 10 to 15 hours per week. Internships may last one or two semesters and may be paid or unpaid depending on the students’ Career Pathway goals. Students are required to apply, be accepted to, and work within an apprenticeship or a structured internship program (example: Northern Tier Industry and Education Consortium, Procter & Gamble, etc.).

A Pennsylvania certified teacher must serve as the Intern Coordinator and will monitor the placement in cooperation with a site-based supervisor. Other requirements include the measurement of student performance, PDE Background checks and clearances, regular site visits, and program documentation. Students in the apprenticeship/internship program may not be concurrently enrolled at a career or vocational center (i.e. SCCTC or LCCTC). All programs require administrative approval.

HOMELESS STUDENT LIAISON AND FOSTER CARE LIAISON

If you or someone you know is experiencing homelessness or in an unaccompanied youth, please contact:

Amie Talarico

Homeless and Foster Care Liaison

Tel. 570-945-5184 x 3044

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