

Course Catalog

2017 – 2018



The Learning Never Stops

Our Vision

Inspire today's learners to be tomorrow's thinkers.

Our Mission

Empower all students and families to become active participants in their own learning and equip them with skills for the future. We achieve this through engaging content, delivered by innovative teaching in a culture of caring.

About PA Cyber

Serving students in kindergarten through 12th grade, the Pennsylvania Cyber Charter School (PA Cyber) is one of the largest, most experienced, and most successful online public schools in the nation. PA Cyber's online learning environments, personalized instructional methods, and choices of curricula connect Pennsylvania students and their families with state-certified and highly-qualified teachers, and rich academic content that is aligned to state standards. Founded in 2000, PA Cyber is headquartered in Midland (Beaver County) and maintains a network of support offices throughout the state. As a public school, PA Cyber is open for enrollment by any school-age child residing in the Commonwealth of Pennsylvania, and does not charge tuition to students or families.

Non-Discrimination Statement – Students: The Pennsylvania Cyber Charter School ("PA Cyber" or "the School") does not discriminate against protected students as defined by applicable federal, Pennsylvania state or local laws, including but not limited to the Pennsylvania Human Relations Act, Title VI of the Civil Rights Act of 1964, Title IX of the Educational Amendments Act of 1972, and Section 504 of the Rehabilitation Act of 1973. PA Cyber is an equal opportunity educational institution and does not discriminate unlawfully in its educational programs, policies, activities or admissions practices on the basis of sex, race, color, national origin, religion, age, disability, genetic information or any other classification protected by applicable federal, state or local laws.



Table of Contents

School Information	2
Accreditations – Middle States Accreditation; AdvancED; NCAA	2
Curriculum Providers – Lincoln Learning Solutions; Calvert School	3
Pacing; Credit Recovery	3
Instructional Delivery Modes – Virtual Classroom; Blended Classroom; Asynchronous Classroom	4
State Testing – PSSA Exams; Keystone Exams	5
<hr/>	
Student Support and Services	6
PA Cyber Offices	6
Student Support	7
Student Services and Activities	11
Elementary School Clubs	13
Middle School Clubs	14
High School Clubs	14
<hr/>	
Grades K-2 Courses	19
Calvert (Kindergarten, First, and Second Grade)	19
Lincoln Learning Solutions Early Kindergarten	20
Lincoln Learning Solutions Kindergarten	21
Lincoln Learning Solutions First Grade	22
Lincoln Learning Solutions Second Grade	23
<hr/>	
Grades 3-5 Courses	24
Calvert (Third, Fourth, and Fifth Grade)	24
Lincoln Learning Solutions Third Grade	25
Lincoln Learning Solutions Fourth Grade	25
Lincoln Learning Solutions Fifth Grade	26
<hr/>	
Grades 6-8 Courses	29
Lincoln Learning Solutions Sixth Grade	29
Lincoln Learning Solutions Seventh Grade	30
Lincoln Learning Solutions Eighth Grade	31
<hr/>	
Grades K-8 Additional Courses	33
Physical Education and Health	33
Fine Arts	34
Elementary and Middle School Electives	36
<hr/>	
High School Courses	38
PA Cyber Graduation Requirements	38
English Language Arts	40
Mathematics	43
Science	46
Social Studies	51
Fine Arts	55
World Language	58
Physical Education & Health	63
Business Electives	63
Multimedia & Technology Electives	65
General Electives	65
Keystone Courses	67

School Information

Accreditations

Middle States

In the fall of 2011, The Pennsylvania Cyber Charter School was granted prestigious accreditation through the Middle States Association of Colleges and Schools. As an accredited member of the Middle States Association (MSA), the Pennsylvania Cyber Charter School joins an educational network that includes the full spectrum of private and public educational institutions in the United States and major colleges and universities in more than 85 countries around the world.

Earning accreditation from MSA means PA Cyber meets Middle States' 12 accepted standards for schools. These standards address the rigor of academic programs, the processing of academic records, business practices, and long term goals for continued improvement. In order to achieve accreditation, PA Cyber went through an extensive self-evaluation, supported by MSA's professional staff.

Enrolling in a school that has received accreditation is important for a variety of reasons. It ensures that the school has met and will continue to meet strict professional standards to maintain accreditation. Middle States accredited institutions achieve a level of educational quality and effectiveness that meets and goes well beyond the accountability requirements of governing bodies, including state and federal inspection, reporting, and monitoring. Accreditation is especially important when considering high school graduation and college admissions.

AdvancED

Lincoln Learning Solutions, the exclusive provider of Lincoln Interactive and Lincoln Empowered online curriculum, has achieved Corporation Accreditation from AdvancED, the world's leader in providing improvement and accreditation services to education providers of all types in their pursuit of excellence in serving students. AdvancED is a trusted partner to more than 32,000 institutions in more than 70 countries serving over 20 million students. Accreditation is awarded to institutions that go through a rigorous internal and external review process demonstrating a willingness to be held accountable to the educational community for their commitment to high quality standards and student achievement. AdvancED Accreditation is an internationally recognized sign of quality and accountability.

NCAA

The majority of PA Cyber's high school courses have been approved by the NCAA Eligibility Center. This organization establishes academic standards that student athletes must meet in order to compete in intercollegiate athletics. NCAA approved courses are designated in the individual course descriptions.



Curriculum Providers

Lincoln Learning Solutions

Lincoln Learning Solutions provides students with an innovative and effective educational experience while utilizing state of the art technology, an interactive and engaging curriculum, and the guidance of highly qualified, licensed instructors. Employing a unique and consistent design model, each asynchronous Lincoln Learning Solutions course offers students a variety of content supplemented with various activities that include web investigations, podcasts, interactive labs, PowerPoint presentations, videos, songs, and games. Aligned to state and national standards, lessons also contain differentiated instruction through the identification of key concepts, reinforcements, and enrichment activities. Varied and frequent assessments measure students' knowledge and provide students with valuable feedback.

Lincoln Learning Solution's catalog of courses includes offerings beginning with Early Kindergarten progressing through high school. These core courses include mathematics, English, science, and social studies, along with a variety of electives for various grade levels.

Lincoln Learning Solutions, one of the nation's premier online curriculum providers, delivers student-friendly courses that offer a wide range of opportunities for academic mastery, investigation, and interaction.

Calvert School

Students in Kindergarten through fifth grade may participate in a curricular framework developed by Calvert Educational Services, a division of the Middle States Association of Colleges and School, and the Commission on the International and Transregional Accreditation (CITA). Calvert's comprehensive curriculum uses a blend of traditional textbooks and online learning. The K-5 curriculum is built on a foundation of reading, writing, and arithmetic. This foundation is layered with history, science, music, geography, and the arts to ensure a well-rounded education.

Students are assigned a Pennsylvania certified teacher and their progress is monitored by both the teacher and the student's Academic Advisor. The teacher grades and evaluates the assessments and provides the family with a holistic, narrative description of the strengths and weaknesses of the student, and suggests additional practice, reinforcement, and activities.

Calvert's teacher-created Lesson Manuals, relevant online resources, and proven educational methodologies combine to create a complete and organized curriculum to guide your student to success.

Pacing

The Pennsylvania Cyber Charter School has a course pacing policy in place that will help our students reach their educational goals. In addition to providing accountability, pacing ensures that our students are attaining various Pennsylvania educational standards. PA Cyber is dedicated to providing an innovative, individualized education to our students, and we will continue to offer the highest level of service, support, and flexibility.

All GIEP, IEP, and 504 Plans will be honored.

Credit Recovery

To help high school students meet Pennsylvania's graduation requirements, The Pennsylvania Cyber Charter School has implemented Credit Recovery for qualifying students. Our Credit Recovery courses utilize the Lincoln Learning Solutions curriculum to provide students engaging content with supplemental activities including podcasts, videos, games, and interactive labs. The curriculum uses a consistent design model that incorporates differentiated instruction. Reinforcement and enrichment activities, along with practice assignments and problems are included throughout each course to help ensure students grasp the concepts needed to succeed.

Please contact your Academic Advisor for a complete list of available Credit Recovery courses and to see if you qualify for this service.

Instructional Delivery Modes

Virtual Classroom (VC)

The Pennsylvania Cyber Charter School offers students a unique instructional setting by conducting real-time classes with Pennsylvania-certified teachers through our Virtual Classroom (VC). The Virtual Classroom is powered by our Learning Management System, Buzz, and our synchronous delivery system, Blackboard Collaborate.

Virtual classes are available to students in grades 2 -12. Virtual Classroom courses are based on the Lincoln Learning Solutions curriculum, and students earn credit when they successfully complete the year-long course. The Virtual Classroom follows a traditional school year calendar, typically beginning in September and ending in June. Daily lessons include discussions, video, and other activities. Homework will be assigned daily to reinforce the concepts presented in class. All Virtual Classroom courses are recorded and archived so students can review sessions as needed.

Virtual Classroom students have the opportunity to interact with their teachers and classmates each day. All core subject area courses meet five days per week, while elective courses meet on Monday, Wednesday, and Friday or Tuesday and Thursday. The scheduling of VC courses is flexible; however, students are required to attend. Together with your Academic Advisor, families can choose from a variety of times for each class in order to meet each student's need.

The Virtual Classroom offers students variety, innovative technology, teacher support and guidance, and the opportunity to succeed.

Blended Classroom (BC)

The Blended Classroom (BC) combines the best of the asynchronous setting with the addition of a live classroom experience one day per week. Blended Classroom courses are taught by Pennsylvania certified teachers. The Blended Classroom is powered by our Learning Management System, Buzz, and our synchronous delivery system, Blackboard Collaborate.

The Blended Classroom is an option for students in grades K-12. In grades K-4, students selecting either the Calvert or Lincoln Learning Solutions curriculum will be scheduled in a live class session once a week for all subjects. These class sessions will contain video clips, discussion, and other activities to help reinforce the content presented in the asynchronous material. In grades 5-12, all core content area courses, including English language arts, mathematics, science, and social studies will be offered in the Blended Classroom. Students will be required to maintain a steady pace in their coursework and attend their live class sessions as directed.

Asynchronous Classroom (AC)

The Asynchronous Classroom (AC) is available for our elective and enrichment courses. Asynchronous classes can be completed at any time and do not require a live component, providing students with the flexibility to complete schoolwork when it is convenient for them.

In this setting, students log in to the Buzz Learning Management System, and complete the work as posted in the course. Course components may include readings, videos, games, discussion board threads, and a variety of assessments. A Pennsylvania certified teacher is available to assist students and to provide feedback as they work in the class



State Testing

PSSA Exams

The Pennsylvania System of School Assessment, or PSSA, is a measure of student proficiency in English Language Arts, Mathematics, and Science according to the Pennsylvania Core Standards. PSSA results allow PA Cyber teachers and administrators to assess student learning and achievement each year, while providing a snapshot of each student's abilities. Students in grades 3-8 are required to take the Mathematics and English Language Arts PSSA exam. In grades 4 and 8, students will also be required to take the Science PSSA exam.

Tests are given in the spring, and Academic Advisors will make arrangements with each family to coordinate testing days, times, and locations.

Keystone Exams

The Keystone Exams are end-of-course assessments designed to assess student proficiency in Algebra I, Biology, and English Literature. These exams are a component of Pennsylvania's system of high school graduation requirements. Beginning with the graduating class of 2018-2019, students must pass the Keystone exams to meet graduation requirements. As students complete courses associated with Keystone Exams, Academic Advisors will make testing arrangements and notify the student of the date, time, and location of each Keystone Exam. PA Cyber will provide two testing windows for students. The first testing window will take place in December, and the second testing window will take place in May.

Students who do not score proficient or advanced on any Keystone Exam will be enrolled in a Keystone course either in the fall or spring. These courses are designed to help students understand, practice, and master the concepts tested, and to review test taking strategies with a live instructor. After completing the required course, the student will be scheduled to retest during the next available testing window. This process will be repeated until the student reaches proficiency. For questions regarding Keystone Exams, please contact your Academic Advisor.

Student Support & Services

PA Cyber Offices

The Pennsylvania Cyber Charter School is committed to providing our students and families with multiple opportunities to engage deeply in their learning, and to access the programs and services they need to be successful. In addition to our robust online offerings, PA Cyber has established office locations throughout Pennsylvania that offer resources and support for students and families. Our regional offices offer family and student-centered activities and services designed to enrich, enhance, and extend your learning experience.

For a complete a list of activities and services offered at the nearest office location, please contact your Academic Advisor.

Allentown Office

974 Marcon Blvd, Suite 200
Allentown, PA 18109

Greensburg Office

351 Harvey Avenue
Greensburg, PA 15601

Philadelphia Office

1553 Chester Pike, Suite 103
Crum Lynne, PA 19022

State College Office

Creekside Plaza
1700 South Atherton Street
State College, PA 16801

Erie Office

2212 West 15th Street
Erie, PA 16505

Harrisburg Office

479 Port View Drive
Building C-34
Harrisburg, PA 17111

Pittsburgh Office

The Brix at 26
2600 East Carson Street
Pittsburgh, PA 15203

Wexford Office

155 Lake Drive
Wexford, PA 15090



Say hello to Archie!

Named in honor of the ancient Greek mathematician, scientist, and innovator Archimedes, Archie is the official mascot of the Pennsylvania Cyber Charter School, and is a symbol of our school's commitment to the pursuit of knowledge and non-stop learning. Throughout the year, Archie soars across Pennsylvania, hoping to meet as many PA Cyber students and families as possible. You can meet up with Archie at one of our Family Link or other PA Cyber community events. When you do, make sure to take a photo with him, and share it with us on our Facebook page!

Student Support

English as a Second Language (ESL)

Following Title 22, Chapter 4 of the Pennsylvania School Code, the Pennsylvania Department of Education requires every public school district and charter school to provide a program for each student who has limited English proficiency (LEP). English as a Second Language (ESL) instruction is considered core content for those English language learners (ELL) who qualify, and participation in the program is required.

The goal of PA Cyber's ESL program is to facilitate the acquisition of English language skills of students whose native or first language is not English. The ESL Department provides identification, placement, direct English language instruction, content classroom language support, state-required assessment, and monitoring for all identified ELLs. The PA Cyber English as a Second Language Department provides the following for its enrolled students:

- Live language instructional sessions with a Pennsylvania certified ESL teacher.
- Additional language support within the content classroom.
- Enhanced communication between staff and family in the family's preferred language.
- Progress monitoring of English language development.

Gifted and Talented Program

Following the Pennsylvania Department of Education's Chapter 16 regulations, the PA Cyber Gifted and Talented team identifies, evaluates, and provides qualified students with individualized educational programs for gifted students. The team works closely with PA Cyber families to maximize each student's educational potential through the use of appropriate course and grade acceleration, delivery of optional online enrichment courses, and the provision of educational events and other supplemental programs.

The PA Cyber Gifted and Talented program affords the following for students that have been identified as gifted:

- Personalized approach to understand and best accommodate gifted students' educational needs.
- Engaging educational opportunities and programs designed for advanced learners.
- Live online enrichment courses.
- Online discussion forums and interactive student competitions.
- Student-centered activities at regional offices.

School Counseling

The School Counseling Department at PA Cyber works with all students to ensure their potential is fully realized in regards to academic, personal, social, and career development in order to achieve success in and out of the classroom. Counselors offer support in a variety of ways including individual, group, and classroom guidance. School counselors collaborate with community agencies, staff members, parents, teachers, and administrators to ensure that all students are empowered to create a quality life as they acquire knowledge, learn responsible behaviors, and are prepared to be lifelong learners.

Student Assistance Program

The Commonwealth of Pennsylvania's Student Assistance Program (SAP), administered by the Pennsylvania Department of Education's Safe Schools Office in partnership with the Pennsylvania Department of Drug and Alcohol Programs' Division of Prevention and Intervention, and the Pennsylvania Department of Human Services' Office of Mental Health and Substance Abuse Services, is designed to assist school personnel in identifying issues which pose a barrier to a student's success. The primary goal of SAP is to help students overcome these barriers so they may achieve, remain in school, and advance. While SAP is mandatory statewide, the structure and operation of the program at PA Cyber is a unique expression of an integrated model utilizing our Five Step Approach to Case Management for barriers including but not limited to alcohol, tobacco, other drugs, social problems, family issues including teen parenting, mental health issues, and homelessness in accordance with the McKinney-Vento Act.



Response to Instruction and Intervention

Response to Instruction and Intervention (RtII) is a three-tiered strategy to enable early identification and support for students at academic or behavioral risk. Careful monitoring, communication with families, and the use of various programs can help students attain academic success.

i-Ready

Students will utilize i-Ready Diagnostic and Instruction, which has been shown to improve academic outcomes, in reading and mathematics. Built with the Pennsylvania Core Standards in mind, the diagnostic assessment is able to pinpoint student needs down to the sub-skill level. Ongoing progress monitoring will indicate whether students are on track to achieve end-of-year targets.

Study Island

PA Cyber utilizes the Study Island benchmark to assess student proficiency of Pennsylvania Core Standards. Students in grades 3-8, and high school English, Biology, and Algebra I will take the Study Island benchmark assessment twice a year. In addition to the benchmark, students will routinely be engaged in online interactive games in order to prepare for the PSSA and Keystone Exams. Ahead of state testing, students are highly encouraged to complete all topics in each subject areas for their grade level. The variety of activities, including games, flashcards, and videos, reinforce the skills necessary for success on state assessments.

Let's Go Learn

Let's Go Learn diagnostic assessments measure student proficiency levels in Pre-Algebra, Algebra I, and reading comprehension. Students who have not met necessary testing requirements will take the DORA and/or DOMA assessment. Upon completion, parents have immediate access to review results with their Academic Advisor.

First in Math

First in Math engages students in grades 3-8 with educational games to help develop basic grade level math skills by increasing their response time and accuracy of math facts. Students are motivated by earning incentive stickers upon completing each skill set. By building time in your child's school day, First in Math will make an impact in their daily math work.

Reading Assistant

MySciLEARN's Reading Assistant provides students with individualized reading coaching. Its patented technology provides real-time corrective feedback via speech recognition, an auto-calculation of how many words they pronounce correctly per minute, and frequent check for understanding questions. This helps students self-correct as they read while staying motivated to read for accuracy and meaning. Parents can review their student's scores and session reports so they can see their child's results instantly. The Reading Assistant library offers a variety of selections that will reach many interests and reading levels.

netTrekker

An educational search engine that brings the best of the web to K-12 students, netTrekker connects you to more than 400,000 hand-selected, educator-approved sites, including favorites such as BrainPOP. netTrekker search results are organized by grade level bands and detail the readability of each web resource, so you can be confident that your student is accessing websites appropriate for their grade level. netTrekker resources are personalized to each learner's interests and are ideal for every student's learning needs.

TutaPoint - Tutoring

PA Cyber students in grades 4-12 can engage in TutaPoint's dynamic small group tutoring, Homework Help, as needed. These sessions are grade-specific in the subjects of math, science, language arts, and Spanish. If more intensive support becomes necessary, students may be recommended to schedule an Individual Tutoring session with an experienced subject matter TutaPoint tutor. Additional content-specific "push and play" tutoring is available through TutaPoint's Quick Links resources located on their Homepage.

TutaPoint - The Writing Lab

The Writing Lab is designed to improve student writing by providing feedback to help students understand specific areas for improvement and revise their writing with more confidence. Written feedback will be provided to all students. Students requiring additional assistance may work in a live session with their writing tutor to review their piece and discuss improvements.

Title I Coaching

Title I coaches provide a bridge for K-12 students who experience gaps in their reading and math development. Students in the program will be assessed by the Title I team which includes certified specialists in the fields of reading and math. The coach and Title I team will develop an individualized intervention plan that will meet the needs of each student, while helping them to realize success. Student progress is measured to ensure the effectiveness of the instruction they receive.

IMPACT

IMPACT is a peer tutoring program in which a high achieving 10th, 11th, or 12th grade student tutors 3rd, 4th, 5th, or 6th grade students. Each tutor works independently with a student in order to prepare him or her for the PSSA Mathematics exam. Each tutoring session is supervised by an Academic Advisor or teacher. Teachers track each student's progress throughout the program and report significant strengths and weaknesses to parents. IMPACT meets once a week online for ten weeks beginning in January and ending in March. Peer tutoring not only increases test scores and academic performance, but helps increase self-esteem and social interaction.

PA Cyber Library

The PA Cyber library was created for students, parents, and staff for use in and out of the classroom. Available materials include eBooks, videos, guides, and physical resources. The PA Cyber library also provides access to the materials available through the PA Power Library and ESBCOhost educational database.

PA Cyber Video Tutor

The PA Cyber Video Tutor is available to all PA Cyber students who need help learning or reviewing a topic in math or reading. PA Cyber teachers have recorded short mini-lessons on a variety of math and reading topics through all grade levels. These videos can serve as a review before a test, to clarify a concept when confused, or as enrichment to a lesson. These videos can be accessed any time, any day.

Book It! Reading Program

PA Cyber students in grades K-6 can participate in the Pizza Hut Book-It! program, which runs from October through March. This program encourages students to read daily. Together with their parents, students will keep track of daily minutes read. Students are encouraged to read at least 20 minutes per day. When students meet their goal, he or she will earn a coupon that can be redeemed for a free personal pan pizza at Pizza Hut.



Student Services and Activities

Family Link — Connect. Share. Support

PA Cyber's Family Link is an outreach program that offers our families the chance to connect through field trips and local parent-planned activities. We have seen how much these events broaden and enrich the cyber school experience by creating an important social network for PA Cyber students and their families. Students enjoy the opportunity to spend time with classmates who share their interests, and parents are able to talk and share ideas with other parents who respect and understand their educational choice. Family Link members are also given opt-in access to a secure, online directory of other members' names, PA Cyber email addresses, grade levels, and geographic regions. This unique directory helps families connect and communicate with others to foster support, enhance learning, and create lasting friendships.

ArtReach

PA Cyber is pleased to provide fine arts choices and opportunities through high-impact programs in the arts, including online virtual classes, in-person workshops, and classes in music, theater, dance, creative writing, and visual arts. Hands-on classes, taught by qualified instructors at PA Cyber offices across Pennsylvania, provide an opportunity for students to expand their knowledge and experience with various art forms while gaining social interaction with other PA Cyber students local to their area.

STEM Outreach and Programs

Every day, more and more areas of our lives are changing because of STEM (Science, Technology, Engineering, and Mathematics), and we want to help students discover these career fields. PA Cyber's STEM outreach aims to connect students with Science, Technology, Engineering, and Mathematics activities and experiences to encourage curiosity and exploration. Through the use of online collaboration tools and PA Cyber offices across the Commonwealth, our students will have opportunities to participate in STEM themed enrichment activities. STEM outreach encompasses clubs, competitions, workshops, and activities that help bring STEM to PA Cyber students.

STAR Academic Incentive Program

Exclusive to PA Cyber, the STAR program is an academic incentive program that allows students not identified as gifted learners access to similar opportunities through online enrichment courses and other supplemental programs. STAR students must meet specific academic and attendance criteria.

National Junior Honor Society

"More than just an honor roll" is the motto of the National Junior Honor Society. NJHS was established in 1929 to recognize outstanding middle level students for their character, merit, leadership, service, and citizenship. With over one million students participating in national honor societies across the nation, the PA Cyber chapter of the National Junior Honor Society joined the movement in fall 2014. Our chapter invites students in grades 6-9 who demonstrate the five core principles. Students who are eligible must maintain As and Bs, demonstrate leadership and citizenship within their school, community, and other extracurricular activities, as well as complete hours of community service. Members of the PA Cyber chapter are also required to submit a service project as well as attend monthly webinars. Formal induction ceremonies take place each year to recognize new members into its organization. The PA Cyber chapter of the National Junior Honor Society welcomes you to become a part of a once in a lifetime experience.

National Honor Society

The National Honor Society (NHS) is a nationwide organization in the United States and consists of many chapters in high schools. The PA Cyber NHS Chapter is open to students in grades 10-12. Selection is based on four criteria: scholarship, leadership, service, and character. NHS requires service to the community, school, or other organizations. Projects help students meet the required monthly service hour total. The National Honor Society was founded in 1921 by the National Association of Secondary School Principals. The Alpha chapter of NHS was founded at Fifth Avenue High School by Principal Edward S. Rynearson in Pittsburgh, Pennsylvania. National Honor Society chapters are commonly active in community service activities both in the community and at the school.



PA Cyber Clubs

One of the easiest and quickest ways to meet other PA Cyber students is to join a club. At PA Cyber, clubs meet online through Blackboard Collaborate, and stay connected by discussions and chats with fellow club members in Buzz. Each club elects officers, chooses club topics to discuss, and may even help organize club outings.

High school students must have at least a 2.5 grade point average and must be on-pace with school work in order to be eligible to join a club. High school students can join up to two clubs. Middle and elementary students may join one club.

No matter your interest, there is a club for you! Get involved, meet others, expand your horizons, and have fun!

Elementary School Clubs

Coding I (1-2)

Students will create computer programs with loops and events, and write algorithms for everyday tasks. Students will learn to collaborate with others meaningfully, investigate different problem-solving techniques, persist in the face of difficult tasks, and learn about internet safety. By the end of the year, students will learn critical thinking skills necessary to gain a better understanding of computer science and other subject areas.

Coding II (3-5)

Students will create programs with loops, events, and conditionals, and write algorithms for everyday tasks. They will translate their names into binary, investigate different problem-solving techniques, and discuss societal impacts of computing. By the end of the year, students will learn critical thinking skills necessary to gain a better understanding of computer science and all other content areas.

Foreign Language Club (K-5)

If you are looking to make friends and have fun while learning about the world, the PA Cyber Foreign Language club is for you! The PA Cyber Foreign Language Club provides students with the opportunity to make connections with other students and discover cultures through interactive club activities. Students will participate in foreign language games, learn words and phrases from other languages, and practice reading, writing, and communication skills. The Foreign Language Club allows students to work together on foreign language projects and activities, while increasing their knowledge about our world.

Hands on Science Club (K-2)

The Hands on Science Club will introduce young students to science skills through language arts and mathematics utilizing communication, problem solving skills, critical thinking, and creativity while performing hands-on experiments. Twice a month, young scientists and the club facilitator will perform an awesome science experiment together, following the steps of the scientific method. Young scientists will gain a love of science, try new things, and get their hands dirty in this fun club!

Hands on Science Club (3-5)

The Hands on Science Club will introduce upper elementary students to science skills through language arts and mathematics utilizing communication, problem solving skills, critical thinking, and creativity while performing hands-on experiments. Twice a month, junior scientists and the club facilitator will perform exciting science experiments together, while investigating the steps of the scientific method. Junior scientists will gain a love of science, try new things, and get their hands dirty in this fun club!

Ready, Set, Go Club (K-2)

Are you ready? Get Set! GO! The Ready, Set, Go Club will reinforce reading and mathematics skills for PA Cyber's youngest learners. Through games and activities, students will sharpen their skills for academic success. The core goals of the club include social collaboration to problem solve, building self-esteem through positive interactions, and creating a sense of community!

Ready, Set, Go Club (3-5)

The Ready, Set, Go Club will reinforce reading, mathematics, communication, and problem solving skills for PA Cyber's upper elementary learners. Through games and activities, students will sharpen their skills for academic success. The core goals of the club include social collaboration to problem solve, building self-esteem through positive interactions, and creating a sense of community. Get ready, get set, and go!

Middle School Clubs

Adventures in Reading

Adventures in Reading (AIR) meets online twice each month to discover a new book and share a love of reading. In each meeting, we will explore a novel through many fun online activities including crossword puzzles, games, word searches, and so much more. The book list changes every school year to keep our readers enjoying new books and new adventures. Please join us for Adventures in Reading!

Science Investigators

Do you question everything? Do you want to know how things work? Are you interested in the newest topics in science and technology? The Science Investigators Club will guide you through the scientific world as we focus on the newest breakthroughs and share our thoughts through discussion. The Science Investigators Club will be driven by the interests of student members as they actively lead discussions and present their findings to their peers. Come join us as we discover the newest trends and investigate the future of science!

Students Helping Students (SHS) Peer Mentoring

The mission of Students Helping Students is to improve interpersonal communication skills while increasing peer-to-peer interaction between PA Cyber students. SHS seeks to empower students personally and academically through positive peer involvement and extra in-school support. Students in grades 7-9 are eligible to be considered as mentors while students in grades 6-8 are eligible to be considered as mentees.

In addition to these clubs, middle school students may also join the Chinese, French, German, or Spanish Club.

High School Clubs

Art Club

The Art Club offers students an opportunity to share their work with fellow students and learn new techniques they can incorporate into their artwork. Students will also have the opportunity to join the National Art Honor Society, be a part of the leadership of Art Club, as well as gain knowledge of the world of art including history and career paths.

Book of the Month Club

Book of the Month Club members will have the opportunity to nurture and cultivate their love of reading through discussion board threads and participation in live online classroom discussions with their advisors, peers, and field trips.



Chess Club

The Chess Club is designed for students of any ability level who want to gain an understanding of how to better their chess game. The club starts from the basics, and quickly advances through some of the more difficult strategies in the game of chess. Meetings will involve a lesson or students practicing their skills in matches against one another in an online platform.

Chinese Club

Members will explore Chinese culture, family life, education, customs, food, and of course, the language. Through club activities such as games, music, videos, and online virtual tours, club members will increase their awareness and appreciation for all things Chinese. Open to all middle and high school students, with or without Chinese exposure!

Connect Bible Club

The Connect Bible Club is a non-denominational club that allows our students to explore their faith with other like minded students. This student-led club allows students to connect together in prayer, worship, and fellowship. There is no requirement for students to participate, just a willingness to hear the Word of God and fellowship with all who choose to attend.

DECA

The PA Cyber DECA Chapter is designed to develop future leaders with the skills of marketing, management, and entrepreneurship in any field that students choose to pursue. Activities will focus on developing leadership abilities, presentation skills, and aid in setting goals for students' future careers. DECA members will be invited to participate in competitive events at district, state, and national conferences. During competitions, students will have the chance to network with business professionals and other students with similar future goals and objectives who also enjoy competitive events. In addition, DECA students will have opportunities to apply for scholarships to colleges across the nation.



Equestrian Club

The Equestrian Club is for the horse enthusiast who wants to share and grow their knowledge and understanding of horses with others. Students will have the opportunity to engage with their peers through regular online meetings, collaborate in discussion boards, and meet face to face on field trips.

Exploring Science Club

We love science, how about you? PA Cyber's Exploring Science Club is an opportunity for students to explore science in areas outside of their curriculum. This club will explore a variety of topics such as epigenetics, forensics, recent developments in particle physics, bioinformatics, the science of geology and new drilling methods – no science topic is off limits. Regular online meetings and a club website will allow students to share their interest in science through discussions and presentations. Activities will include labs, projects, and optional field trips. Students who love science and would like to explore more should join us in Exploring Science.

French Club

The purpose of the PA Cyber French Club is to expose students to the French world around them here in the United States, in France, and in other francophone countries. Regular online meetings will facilitate the sharing of love for the French language and culture both by students and knowledgeable faculty. Activities include listening to French music, watching French videos, exploring French art and literature, project creation based on cultural themes, cuisine exploration, and conversational skills. The club is open to all middle school and high school students, with or without previous French language exposure. Club members also have the opportunity to become a member of the National French Honor Society.

German Club

The PA Cyber German Club is open to any middle or high school student who is interested in the German language or German speaking cultures. It is not necessary for students to be enrolled in a German course in order to be a member of the club. Students will practice basic conversations, read stories, listen to and sing all types of music, play games, and chat with virtual guests from German-speaking countries. The PA Cyber German Club is a chapter of the National German Honor Society. Students are encouraged to visit a virtual meeting to see if the German Club is for them!

GSA

The goals of the Gender and Sexuality Alliance are to create a more accepting environment for all people, to ensure that every member of the school community is valued and respected, regardless of sexual orientation, gender identity, or gender expression. This is accomplished through education, support, social action, and advocacy. GSA believes that schools can be truly safe only when every student is assured access to an education without fear or shame. The GSA welcomes lesbian, gay, bisexual, and transgender persons, questioning youth, children of LGBT parents, allies, and others. The label is less important than the intention to create a welcoming, inclusive, diverse community for everyone.

History Club

No area of history is off-limits as club members explore the major historical events that have profoundly affected our world. Club members should expect to participate in both synchronous and asynchronous learning opportunities, field trips, competitions, and more. This is a club specifically designed for students who want to do more than just read about history. History club members will work from the perspective of "hands-on" history, walking in the footsteps of those from the past, and developing an appreciation of living history.

Newspaper Club

In an effort to highlight outstanding events, students, and programs at PA Cyber, the Newspaper Club meets weekly to create and publish a monthly issue of *The PA Cyber Press*. The Newspaper Club requires students to contribute one article per month with additional opportunities to edit and design. Adhering to deadlines and communicating with club advisers is required.

Photography Club

The PA Cyber Photography Club encourages students to develop their photography skills in an environment that is mutually supportive and interactive. Knowledgeable faculty advisers and student members will share their talents, knowledge, and love of photography through regular online meetings and photo-sharing websites. Members will be encouraged to grow in photographic competency; to learn about the history, techniques, and art of still photography; and to share their talents with others in their school and individuals within their home communities.

Spanish Club

The PA Cyber Spanish Club welcomes middle and high school students with an interest in the Spanish language or Hispanic culture. It is not necessary for students to be enrolled in a Spanish course in order to join the Spanish Club. Club members will have the opportunity to learn about Spanish-speaking countries, culture, food, art, holidays, and more. Virtual and live field trips will be planned so club members can have the opportunity to meet each other and share their common interest. Club members will also have the opportunity to join the Spanish Honor Society.

STEAM Maker Club

Join the maker movement and discuss, share, and collaborate with other students to learn how to integrate and build technology to enhance daily life, help others, or merely add some creativity to your own "Do It Yourself" projects. We will have our own virtual makerspace, as well as opportunities to meet up and do some actual hands-on making throughout the year. Topics include, but are not limited to, robotics, 3D printing, code and software, traditional arts and crafts, current technological developments, microcontrollers, and single-board computers (Raspberry Pi), plus so much more! BYOT (Bring Your Own Talent) and enthusiasm!

Student Council

PA Cyber's Student Council seeks to represent the high school student body in all matters pertaining to the betterment of the school. This includes fostering communication among students, administrators, staff, and the community at large. Additionally, the council strives to promote, organize, and execute activities that encourage student pride and school spirit. Finally, the council serves to instill democratic ideals, provide an outlet for student expression, and aid in the solution of school problems as identified from the students' perspectives. In order to be considered for the student council, students in grades 9-12 must meet required academic criteria, have a teacher recommendation, and be selected by the council's faculty advisers.

K-2 Courses



New this year, students enrolled in the Calvert curriculum will access their online content within PA Cyber's Learning Management System.

Calvert

Calvert Kindergarten

Calvert's full day Kindergarten program offers hands-on, interactive learning to help prepare your child for first grade. The curriculum helps your child refine his or her reading skills with its phonics-based approach and read-aloud books. The curriculum integrates its reading materials with science and social studies, allowing for an interdisciplinary education. Math introduces students to numbers, shapes, problem solving, and ordering numbers. Kindergarten subjects include Reading, Phonics, and Literature; Spelling and Vocabulary; Writing and Composition; Grammar; Poetry; Mathematics; Science; History and Social Studies; Geography; Art; and Technology.

Delivery Mode
BC

Calvert First Grade

The joy of Calvert's first grade curriculum is watching your child develop into an independent reader and writer. Through activities that develop a full range of phonemic awareness, phonics, comprehension, vocabulary, and fluency skills, you will help your child build on the skills learned in Kindergarten. Students build a strong foundation in math skills and concepts through the Singapore math method. They study two- and three-digits numbers, addition and subtraction with and without regrouping, skip counting, measurement, telling time, and graphs. The newly updated and streamlined lesson manuals, answer keys, and tests allow for more concise content that is easier to follow. The science program includes the study of living things, our Earth, weather, matter, motion, and energy. Social studies includes biographies of well-known explorers, political figures, inventors, and leaders in American life. First grade subjects include Reading, Phonics, and Literature; Spelling and Vocabulary; Writing and Composition; Grammar; Poetry; Mathematics; Science; History and Social Studies; Geography; Art; and Technology.

Delivery Mode
BC

Calvert Second Grade

Calvert's second grade curriculum fully immerses your child in the world of independent reading. Using phonics storybooks and reading anthologies, you can help your child reinforce word analysis techniques and develop comprehension skills. Your child also begins writing dictated words and sentences, learning the rules of punctuation, and expressing his or her own ideas in original compositions. Students build a strong foundation in math skills and concepts through the Singapore math method. The newly updated and streamlined lesson manuals, answer keys, and tests allow for more concise content that is easier to follow. Students perform complex addition and subtraction, and are introduced to multiplication and division. They work with numbers up to a thousand, manipulate and measure geometric figures, develop skills with money and measurement, and represent data. Science includes units on heat, light, forces, properties of rocks, and the human body. Social studies topics include old-world figures, geography, and maps. Second grade subjects include Reading, Phonics, and Literature; Spelling and Vocabulary; Writing and Composition; Grammar; Poetry; Mathematics; Science; History and Social Studies; Geography; Art; and Technology.

Delivery Mode
BC

Lincoln Learning Solutions Early Kindergarten

Lincoln Learning Solutions Early Kindergarten serves to fully prepare young students for the rigors of Kindergarten. Students will be introduced to the routines of school, and will complete daily lessons in reading, writing, and math, as well as be exposed each week to social studies, science, and wellness. Early Kindergarten combines online and offline activities each day. Online, students will watch video lessons from their teacher, Miss Palomine, and her sidekick, Socrates the Squirrel. Additionally, online, they will play mini-games to help reinforce concepts and skills, and have access to songs that are tied to daily learning objectives.

Mathematics EK

In Mathematics, Early Kindergarten students will learn about the numbers 0-20, begin to compare and order numbers, identify and create patterns, recognize shapes and colors, understand the concepts of measurement, collect data and create graphs, and begin to communicate mathematical ideas through problem solving.

Delivery Mode
BC

Reading EK

Reading EK introduces your student to the alphabet and the world of literature. Students will be able to identify the letters of the alphabet, read and write his own name, and begin to identify sight words. They will listen and respond to a variety of literature, including stories, poems, rhymes, and songs. Students will also begin to learn how to speak clearly and respond to questions.

Delivery Mode
BC

Science EK

Science EK uses your student's natural sense of wonder to investigate the world around them. Students will learn about scientists and the work that they do. They will learn how to ask questions to investigate answers and use senses to learn about the world. Topics explored include light and sound, natural resources, simple machines, living and nonliving things, and the Earth, environment, and weather.

Delivery Mode
BC

Social Studies EK

In Social Studies, Early Kindergarten students learn how to be a good citizen. They will learn about sharing, cooperation, and getting along with others. Students will be introduced to maps and geography, and learn about community helpers. Additional topics of study include families, following rules, different cultures and traditions, basic American history and American symbols, transportation, and communication.

Delivery Mode
BC

Writing EK

In Writing EK, students will use pictures, letters, and words to express thoughts and ideas. Students will learn how to write by learning how to properly hold a pencil, trace letters of the alphabet, and eventually write the letters of his own name. In addition, students will practice their listening and comprehension skills, draw pictures to communicate ideas, and tell about personal experiences.

Delivery Mode
BC

Lincoln Learning Solutions Kindergarten

Students enrolled in Lincoln Learning Solutions Kindergarten will build a solid foundation in the subjects of math, reading, writing, social studies, science, and visual arts. Lincoln Learning Solutions Kindergarten combines both online and offline components. Online each day, students watch four engaging teacher videos featuring teachers Mr. Reed Moore, Mrs. Triggles, Ms. Mapple, and Dr. Algae, and play a variety of mini-games designed to reinforce daily learning objectives. Wellness is also incorporated into the curriculum through weekly videos and activities that will benefit students as they learn about fitness, nutrition, and healthy living.

To meet the needs of all students, there are many enrichment opportunities known as *Extend your thinking!* These are meant to challenge students who need it. In addition, there are opportunities called *Reteaching* for every subject. These activities are meant to help students who are having difficulty by allowing the objectives to be introduced and practiced in different ways.

Mathematics K

Mathematics K students will learn about the numbers 0-40, be able to count forward and backwards, and be introduced to the concept of skip counting. Basic addition and subtraction will be practiced. Students will understand the characteristics of shapes and patterns, concepts of time, use tools to measure, and gather data and represent it in a graph. Kindergarten Mathematics lays the foundation for future mathematical thinking.

Delivery Mode
BC

Reading K

Reading K sets the stage for success in reading and language arts. Students will understand the basic concepts of print. There is an emphasis on phonics, including letters, letter sounds, and word families. Grammar basics such as capitalization, punctuation, and parts of a sentence are introduced. Through a variety of fiction and nonfiction literature, students will be able to identify characters, main idea, plot, and setting. By the end of Kindergarten, students will be able to read common sight words and basic sentences.

Delivery Mode
BC

Science K

Science K will develop students' natural inquiry skills by providing hands-on activities and experiments. Students will understand what scientists do and learn the basic steps of the scientific method. The five senses are used to gather and learn information about the world around them. Topics that will be explored include animals, safety, simple machines, habitats and the environment, the Earth and weather, and force and motion.

Delivery Mode
BC

Social Studies K

In Social Studies K, students will learn about being a good citizen. They will learn about feelings, self-control, cooperation, good sportsmanship, and respect. Geography, maps, globes, landforms, and bodies of water will be introduced. Students will develop a sense of cultural diversity by exploring the traditions and customs of other countries and cultures. Other themes explored through the year include families, historical figures throughout time, American symbols and patriotism, rules and authority, wants and needs, communication, technology, and transportation.

Delivery Mode
BC

Writing K

Writing K includes both handwriting and different forms of writing. Students will begin the year by practicing handwriting strokes, transitioning into writing all uppercase and lowercase letters of the alphabet. Students will begin to communicate ideas through various types of writing including letters, stories, poems, directions, and lists. The writing process will be utilized, allowing students to edit their own work. Grammar is reinforced by practicing correct capitalization and punctuation in sentences.

Delivery Mode
BC

Lincoln Learning Solutions First Grade

Lincoln Learning Solutions First Grade students continue to build on the mathematics, reading, writing, social studies, science, and visual arts skills learned in Kindergarten. Lincoln Learning Solutions First Grade combines both online and offline components. Online each day, students watch four engaging teacher videos featuring teachers Mr. Reed Moore, Mrs. Triggles, Ms. Mapple, and Dr. Algae, and play a variety of mini-games designed to reinforce daily learning objectives. Wellness is also incorporated into the curriculum through weekly videos and activities that will benefit students as they learn about fitness, nutrition, and healthy living.

To meet the needs of all students, there are many enrichment opportunities known as *Extend your thinking!* These are meant to challenge students who need it. In addition, there are opportunities called *Reteaching* for every subject. These activities are meant to help students who are having difficulty by allowing the objectives to be introduced and practiced in different ways.

Mathematics 1

In Mathematics, first grade students will begin to dive deeper into mathematical thinking and problem solving. Students will be able read, write, and count from 0 to 100, with place value being introduced. Addition and subtraction facts to 20 will be learned, and by the end of the year students will add and subtract three-digit numbers. Shapes, patterns, and geometric reasoning will be explored. Additional units include measurement and data. Students will use problem solving techniques in order to solve everyday mathematical situations.

Delivery Mode
BC

Reading 1

The goal of Reading 1 is to build an independent, lifelong reader. Phonics is emphasized, as students learn short and long vowel sounds, consonant blends, and silent letters to become confident readers. These skills will be used to read grade appropriate fiction and nonfiction. First graders will be able to sequence story events, identify cause and effect, retell a story, and use context clues to determine the meaning of unknown words. Grammar is highlighted as students learn parts of speech, types of sentences, proper use of punctuation, and the parts of a sentence.

Delivery Mode
BC

Science 1

Students are encouraged to become budding scientists in Science 1. The scientific method and inquiry are taught, stimulating young minds to ask questions and explore the world around them. Students will complete experiments and investigations throughout the course. The main concepts investigated in first grade are natural resources, energy and work, simple machines, animals, the Earth and sky, the Solar System, and matter.

Delivery Mode
BC

Social Studies 1

Social Studies 1 reinforces the concepts introduced in Social Studies K. Students will continue to learn about other cultures and cultural diversity by exploring families around the world; different types of shelter, food, and clothing; and traditions. Map skills and geography are further investigated as students practice reading and using maps to locate and describe their homes and communities. Other content explored includes personal responsibility; American symbols and civics; distinguishing between past, present, and future; the concept of earning, saving, and spending money; basic needs; and transportation.

Delivery Mode
BC

Writing 1

First graders will develop into writers and storytellers in Writing 1. Through the year, students will practice a variety of writing forms including writing alternate endings to stories, a book report, a personal narrative, a folktale, realistic fiction, letters, and poems. Students will enhance their writing by using vivid verbs, adjectives, and synonyms. Pre-writing skills, such as story maps and diagrams will also be emphasized.

Delivery Mode
BC

Lincoln Learning Solutions Second Grade

Learning with Lincoln Second Grade students engage in daily lessons in math, reading, writing, social studies, science, and visual arts. Learning with Lincoln Second Grade combines both online and offline components. Online each day, students watch four engaging teacher videos featuring teachers Mr. Reed Moore, Mrs. Triggle, Ms. Mapple, and Dr. Algae, and play a variety of mini-games designed to reinforce daily learning objectives. Wellness is also incorporated into the curriculum through weekly videos and activities that will benefit students as they learn about fitness, nutrition, and healthy living.

To meet the needs of all students, there are many enrichment opportunities known as *Extend your thinking!* These are meant to challenge students who need it. In addition, there are opportunities called *Reteaching* for every subject. These activities are meant to help students who are having difficulty by allowing the objectives to be introduced and practiced in different ways.

Mathematics 2

Mathematics 2 expands on the concepts introduced in first grade. Students continue to explore place value to the thousands place. The relationship between addition and subtraction and adding and subtracting with and without regrouping is a focus through the year. Word problems and real life applications are practiced. Students will skip count by two, three, four, five, and ten, preparing them for multiplication and to work with money. The concepts of more than, less than, and equal to, and their corresponding symbols are introduced. Geometry and patterns are also covered.

Delivery Mode
VC; BC

Reading 2

In second grade, students become strong readers, building on the foundations of first grade. Phonics is continued to be highlighted, with reviews of consonant and vowel sounds, blends, ending sounds, and syllables. These foundational skills will be used to read a variety of literature including informational texts, stories, poems, articles, fairytales, biographies, and longer chapter books. Students will continue to refine their comprehension skills. Grammar and spelling is emphasized as students mature into independent readers and writers. Learning to use resources such as dictionaries and other reference materials is introduced.

Delivery Mode
VC; BC

Science 2

Science 2 students will continue to explore their world through a variety of observations and hands-on activities. The scientific method and technology will be investigated throughout the year. Animal habitats and environments are a major subject of study. Students will make careful observations of the sun, moon, stars, sky, and Earth, and experiments about light, heat, and energy will be conducted.

Delivery Mode
VC; BC

Social Studies 2

Social Studies 2 will teach students about American civics and government, with an emphasis placed on being a good citizen. Early American history is explored beginning with explorers and continuing to colonization. Map skills will be reinforced and practiced, with students being able to identify cities, states, countries, and continents. The basics of economics will be explored, including topics such as saving and spending money, taxes, and jobs and careers. Students will also learn about different cultures around the world.

Delivery Mode
VC; BC

Writing 2

Writing 2 includes handwriting and producing works of written communication. Cursive writing is introduced and practiced throughout Writing 2. Students will create a variety of writing products using the steps of the writing process. Types of writing students will create include opinion essays, articles, informational paragraphs, a research report, instructions, fables, stories, letters, and a biography.

Delivery Mode
VC; BC

3-5 Courses



New this year, students enrolled in the Calvert curriculum will access their online content within PA Cyber's Learning Management System.

Calvert

Calvert Third Grade

Calvert's third grade curriculum features *Smiling Hill Farm*, a classic children's book. This is the first piece of literature your child will read on his own. Composition helps your child further develop organization in writing. Third grade writing creates a more natural continuum from Grade 2 through Grade 4. The accompanying workbook gives students the opportunity for practicing newly acquired skills. Third grade students also begin to learn about ancient mythology and art history, two subjects that prepare students for greater literature appreciation. Using the Singapore math method, students work with lessons that emphasize problem solving and the use of visual representations to perform addition and subtraction with and without regrouping to the hundreds place, develop skills in fractions, multiply and divide to the hundreds place, work with metric and customary measurements, and calculate area and perimeter of two-dimensional shapes. Science involves the study of life cycles and force and motion, while social studies helps students learn about how communities form and work together. Third grade subjects include Reading and Literature; Spelling and Vocabulary; Writing and Composition; Grammar; Poetry; Mathematics; Science; History and Social Studies; Geography; Mythology; Art History; Art; and Technology.

Delivery Mode
BC

Calvert Fourth Grade

Calvert's fourth grade curriculum is exciting as students compose original compositions. The reading program relies on classic children's literature and poetry, with lessons designed to increase comprehension, appreciation, and analysis. It includes new books and strategies for drawing inferences, studying root words, and analyzing story elements. Additionally, tips on differentiation help Learning Guides adjust the lessons to fit students of different ability levels. In math, students build an understanding of math skills and concepts through the Singapore math method. Students work with lessons that emphasize problem solving and the use of visual representations to interpret data, create tables and graphs, add and subtract like and unlike fractions and mixed numbers, express decimals as fractions and mixed numbers, measure angles, and find area and perimeter. The science program covers life science and physical science units, such as electricity and magnetism. Social studies explores the history, geography, and resources of the United States. Fourth grade subjects include Reading and Literature; Spelling and Vocabulary; Writing and Composition; Grammar; Poetry; Mathematics; Science; History and Social Studies; Geography; Art; and Technology.

Delivery Mode
BC

Calvert Fifth Grade

In Calvert's fifth grade curriculum, students begin to learn connections between American history, literature, and geography by reading classic historical novels such as *Sing Down the Moon* and *The Sign of the Beaver*. Essential writing skills continue to be developed, including writing paragraphs, outlining, and summarizing. In math, students work with lessons that emphasize problem solving, the use of visual representations, and Singapore math strategies to multiply and divide fractions, simplify algebraic expressions, represent ratios in fraction form, multiply and divide decimals, and classify polygons. In science your child will study plants, weather, climates, and ecosystems, while social studies surveys American history. Fifth Grade subjects include Reading and Literature; Spelling and Vocabulary; Writing and Composition; Grammar; Poetry; Mathematics; Science; History and Social Studies; Geography; Art History; Art; and Technology.

Delivery Mode
BC

Lincoln Learning Solutions Third Grade

English Language Arts 3

English Language Arts 3 combines reading, writing, grammar, and spelling into a comprehensive course. Students will explore diverse fiction and nonfiction by reading four novels, and a variety of poems, informational texts, plays, and fiction. Students will use comprehension skills to analyze and respond to these pieces of literature. Using the steps of the writing process, a variety of writing pieces will also be produced, including narratives, opinions, informative essays, letters, and poems. Proper grammar and spelling are also taught, including elements such as the parts of speech, proper capitalization and punctuation, figurative language, verb agreement, and types of sentences. **This course utilizes the Lincoln Learning Solutions Empowered™ curriculum.**

Delivery Mode
VC; BC

Mathematics 3

Students in Mathematics 3 will refine their addition and subtraction skills by working with three- and four-digit numbers with and without regrouping. The concept of multiplication and division are introduced, and students are expected to understand and master basic multiplication and division facts. Fractions are reviewed, and students will understand the relationship between fractions and decimals. Mathematics 3 also includes studies of time, money, geometry, measurement, and data and graphing. Solving real word scenarios through word problems is emphasized. **This course utilizes the Lincoln Learning Solutions Empowered™ curriculum.**

Delivery Mode
VC; BC

Science 3

Students in Science 3 become junior scientists as they complete a variety of hands-on experiments. They will learn to document observations and results in a science lab journal. The scientific method is introduced, and junior scientists will use it to conduct investigations related to geology, biology, physics, earth science, and wellness. Students will be able to discuss the properties of rocks, soil, and fossils; the characteristics of different natural disasters; various types of land formations; and health and nutrition.

Delivery Mode
VC; BC

Social Studies 3

The focus of Social Studies 3 is the concept of community. Each unit explores a different topic related to this central theme. An in-depth study of geography, landforms, maps, and globes is conducted. Students will study their local community to discover its location, population, and other facts. Students will understand early American history, identify key figures through the development of our country, and understand how those people contributed to their communities. Additional topics of study include American government, economics, and cultures around the world.

Delivery Mode
VC; BC

Lincoln Learning Solutions Fourth Grade

English Language Arts 4

English Language Arts 4 combines reading, writing, spelling, and grammar. Throughout the year, students will read novels, poetry, myths, and a variety of shorter fiction and nonfiction pieces. Students will practice identifying an author's purpose, and will make entries in a reading journal. Graphic organizers and charts will be created and used to compare and contrast information from their readings and make connections through writing. Reference materials such as the dictionary and thesaurus will be utilized to improve students' understanding of words. Students will expand their knowledge of grammar by learning the parts of speech, proofreading and editing their writing, and giving an oral presentation.

Delivery Mode
VC; BC

Mathematics 4

In Mathematics 4, students build upon their knowledge of multiplication and division in order to understand the relationship between operations, and multiply and divide with larger numbers. Fractions are a major topic of study with students making equivalent fractions, comparing fractions, adding and subtracting fractions, and investigating the relationship between fractions and decimals. Students explore geometric concepts including properties of polygons, measuring angles, and identifying symmetry in shapes. Additional topics studied include standard and metric measurement, data, money, and graphing. Real life scenarios will be solved through the use of problem solving techniques. **This course utilizes the Lincoln Learning Solutions Empowered™ curriculum.**

Delivery Mode
VC; BC

Science 4

Science 4 students will develop into scientists as they continue to explore the biological, physical, earth, and environmental sciences. Specific units relate to genetics; force, motion, and energy; sound; properties of matter; earth and space; natural resources; the environment; and ecology. Students will have the opportunity to conduct numerous scientific experiments, and will learn about the many career paths in various scientific fields. **This course utilizes the Lincoln Learning Solutions Empowered™ curriculum.**

Delivery Mode
VC; BC

Social Studies 4

Social Studies 4 introduces the five themes of geography to students by studying the regions of the United States. Students will practice reading and interpreting maps, globes, graphs, and tables. Students will investigate factors that contributed to the development of American cities and industries in specific regions of the country. The United States political system, including the branches of the government, and differences between local, state, and national governments will be discussed. Students will analyze the historical, geographic, political, economic, and social structure of each region of the United States.

Delivery Mode
VC; BC

Lincoln Learning Solutions Fifth Grade

English Language Arts 5

Language Arts 5 is a course with many layers. It is designed around the idea that every student is capable of learning the concepts and material presented throughout the course. In Language Arts 5, students will read several selections. Along with each weekly reading selection, students will encounter new spelling and vocabulary lessons. They will improve their grammar, reading, and writing abilities through weekly skill practices. Students will also learn proper writing strategies and techniques throughout this course. They will follow the writing process to create both fiction and nonfiction essays.

Delivery Mode
VC

English Language Arts 5

In English Language Arts 5, students will focus on reading, writing, listening, and speaking through online lessons, interactive elements, videos, and educational games. Students will read two novels along with shorter nonfiction and fiction passages to learn about plot, main idea, characters, and other literary elements. Other genres of literature, including poetry and drama, will help students learn and understand structure, theme, and figurative language. Narrative, informative, technical, and opinion pieces will be written, while learning and using the steps of the writing process. In addition, learners will gather information about a research topic, evaluate sources, take notes, cite sources, and present research. Students will hone vocabulary skills, practicing word analysis and decoding, determining the meaning of unknown words, and understanding word relationships. Grammar and language skills such as sentence types, punctuation, capitalization, and spelling are reinforced. Listening and speaking skills are refined as students become engaged in group discussions and demonstrate effective communication skills.

Delivery Mode
BC

Mathematics 5

In Mathematics 5, students learn mathematical building blocks that serve as a foundation for higher level math courses. Students enrolled in this course learn about place value, addition, subtraction, and multiplication of whole numbers and decimals. Other topics include multiplication of variables and expressions, basic algebraic concepts, division of whole numbers and decimals, divisibility, prime and composite numbers, graphing, probability, and geometry concepts. As students progress through the year, they will also gain an understanding of fractions by studying the relationship between fractions and decimals, and addition, subtraction, multiplication, and division of fractions. Also, addition and subtraction of mixed numbers, linear measurement and perimeter, area, time, and temperature will be discussed.

Delivery Mode
VC

Mathematics 5

Mathematics 5 will require students to apply knowledge of decimal place value, multiplication and division of multidigit numbers, measurement systems including metric and customary units, and data interpretation and representation. As students progress further through the course, they will learn how to measure volume, determine patterns in place value, and classify two-dimensional figures. Throughout the whole of this course, students will continue to demonstrate how to add, subtract, multiply, and divide whole numbers, fractions, and decimal numbers, as well as how to write and interpret numerical expressions. Basic pre-algebra skills, including graphing points on a coordinate plane, analyzing pattern relationships, and generating numerical patterns based on specific rules will be introduced.

Delivery Mode
BC

Science 5

Science 5 is made up of four units: life science, Earth science, physical science, and space science. The unit on life science includes the classification system, cells, the human body, plants, and ecosystems. Moving into Earth science, students will learn about oceans, the water cycle, weather, rocks and minerals, volcanoes and earthquakes, and the Earth's resources. During this unit on physical science, students discover topics such as matter, motion, simple machines, energy, and electricity. The course ends with a unit on space science, where students will learn about the planets, stars, the moon, the sun, and the Earth.

Delivery Mode
VC

Science 5

Students enrolled in Science 5 will review the scientific method, and be introduced to technology, engineering, and the design process. The environment will be discussed, as they explore the water cycle, different ecosystems, and the importance of recycling. As students proceed through the course, they will complete a study of Earth and space, including climate and weather. They will continue to learn about life science, and also be introduced to the basic principles of chemistry and physics.

Delivery Mode
BC

Social Studies 5

Social Studies 5 will introduce students to several Native American groups and early settlers of the United States. European explorers and the Spanish will also be discussed. African hardships will be covered along with civilization of the early colonies. Early American wars such as the French and Indian War, the American Revolution, and the War of 1812 will be described. Learners will be taught about the Civil War and the division that grew between the North and South due to their differing perspectives on slavery, government, and war. Key concepts to cover will include the Battle of Gettysburg, end of the Civil War and Slavery, Reconstruction, and the 13th, 14th, and 15th Amendments. Main points, battles, and victories of World War I and World War II, as well as the Cold War will be highlighted. The current American government and the American people will round out the conclusion to Social Studies 5.

Delivery Mode
VC

Social Studies 5

Social Studies 5 is a study of United States history, beginning with the earliest American civilization, continuing to the development of the American colonies, and finishing with modern-day America. Students will begin the course by using maps to learn geography skills. Initial topics include early American civilization, Native American tribes, European exploration, and the colonization of North America. Social Studies 5 then focuses on the Revolutionary War; principles and documents of government; growth and westward expansion; federal, state, and local government; patriotism; and the rights and responsibilities of citizenship. This course also teaches the concepts of basic economics including scarcity and choice, productive resources, supply and demand, distribution of goods and services, and advertising. Topics such as economic interdependence and international trade; multinational corporations and economic organizations; income, profit, and wealth; costs and benefits of saving and borrowing; entrepreneurship; and careers and income are explored as well.

Delivery Mode
BC



6-8 Courses



Sixth Grade

English Language Arts 6

English Language Arts 6 explores several types of literature. Students will read and analyze intriguing stories written by famous and influential authors. The course will cover the writing process and effective writing techniques, and students will produce their own pieces of literature in multiple genres, including short stories, compare-contrast essays, how-to essays, and numerous other responses to literature. Proper conventions of grammar are reinforced, including nouns, pronouns, adjectives, relative and interrogative pronouns, verbs, adverbs, prepositional phrases, adjective phrases, simple sentence structure, punctuation words in a series, and understanding and using clauses. Virtual Classroom students read the novels *Wonder* by R.J. Palacio, and *A Wrinkle in Time* by Madeleine L'Engle.

Delivery Mode
VC; BC

Mathematics 6

Mathematics 6 provides a solid foundation by covering major mathematical concepts including fractions and decimals. In this textbook free course, students will begin to work with equivalent expressions, rational numbers, and equations and inequalities. Other major areas of study include statistics, graphing, ratios, and the area and volume of shapes. **This course utilizes the Lincoln Learning Solutions Empowered™ curriculum.**

Delivery Mode
VC; BC

Science 6

Science 6 engages students in the remarkable world of science. Students will become mini-scientists while investigating and gaining an understanding of important topics in science, such as the classification of animals and their unique behaviors, the planet Earth and its fascinating features, and the constructive and destructive forces that affect our planet. Students will continue their journey through Science 6 learning about such topics as the effects of weather and climate, the importance of the atmosphere, and the shocking facts about electricity and magnetism. The use of labs and videos will help students extend their knowledge and enhance their understanding of science in their life.

Delivery Mode
VC; BC

Social Studies 6

Social Studies 6 focuses on world history from the beginnings of human civilization to the present day. The connections between geography and history are explored and evaluated. Social Studies 6 begins with a study of the Stone Age, the Persian Empire, and ancient Egypt and its advances in science and medicine. Students will then move on to explore various world religions, such as Hinduism and Buddhism. Lessons include discussions of early Chinese and Greek societies and cultures, and the rise and fall of the Roman Empire. The Byzantine Empire, Muslim and Islamic beliefs, the Ottoman Empire, and various regions of Africa are examined. Students are introduced to the early civilizations of Europe during the Middle Ages. The Renaissance and Reformation periods in Europe are investigated, leading to a study of the rise of monarchies and the English, American, and French revolutions. Finally, students will end the course with an introduction to World War I, World War II, the Cold War, and the world since 1945. Throughout this course, students complete interactive online activities and watch videos that explain world history and enhance the course. Students will build map skills to better understand the world, and refine their reading, writing, and geography skills.

Delivery Mode
VC; BC

Seventh Grade

English 7

English 7 focuses on the study of grammar, literature, and composition. Students will learn about elements of grammar such as figures of speech, pronouns, clauses, subjects, and predicates. The fiction selections were chosen from a variety of literary genres including short stories, poetry, drama, myths, and folktales. Students will also read nonfiction texts such as autobiographies, biographies, essays, consumer documents, public documents, and workplace documents. Reading selections provide students the opportunity to improve reading comprehension skills, develop vocabulary, make inferences, and explore foreshadowing. Students will also analyze cause and effect, point of view, characterization, and author's purpose. Formal writing assessments include compare and contrast essays, a fictional narrative, a descriptive essay, and a persuasive essay. Virtual Classroom students read *The Giver* by Lois Lowry, and *The Crossover* by Kwame Alexander.

Delivery Mode
VC; BC

Mathematics 7

Students in Mathematics 7 will extend their understanding of basic operations and increase their knowledge of ratios, rates, and proportional reasoning. Learners will also work with equations, factoring, and problem solving. In order to strengthen their understanding of coordinates, students in Mathematics 7 continue their study of the coordinate plane by working with ordered pairs, linear and nonlinear functions, and patterns. This textbook free course offers a solid foundation in mathematics by exploring topics that include geometric concepts and probability. The work in geometry includes lines, rays, segments, angles, triangles, quadrilaterals, circles, irregular figures, prisms, and cylinders. Other topics in the course include polynomials, probability, multi-step equations, word problems, fractions, decimals, and absolute value. Mathematics 7 will prepare students for the study of Algebra. **This course utilizes the Lincoln Learning Solutions Empowered™ curriculum.**

Delivery Mode
VC; BC

Science 7

Science 7 explores many aspects of science, including life, physical, and Earth and space sciences. Students will explore the cell and all of its working parts before being introduced to Earth's organisms and their processes. An investigation of the Earth's water and atmospheric processes will be conducted to determine how each produces energy systems. Students will explore structural changes involving the Earth, ranging from the past to the present. This investigation will include the rock cycle, plate tectonics, and mineral formation. Students will inquire about the history of our universe and what it means to live in an Earth, Moon, and Sun system. Students will also examine motion, forces, and various types of energy.

Delivery Mode
VC; BC

Social Studies 7

Social Studies 7 encourages students to think like geographers by teaching them to study the Earth according to the five themes of geography. Students will use these themes to determine why things are located where they are, such as a region, an ethnic group, a landform, or a trade route, and they will determine why these things can be found in particular places. The answers to these basic questions will also equip students to more fully understand the geography, history, culture, regions, and contemporary issues facing the people of the Americas, Europe, Russia, Asia, Africa, and the Pacific World. Interactive elements will expose students to how each of these places has been shaped by history, but has also developed a rich, thriving culture that can be seen today.

Delivery Mode
VC; BC

Eighth Grade

English 8

In English 8, students will examine literary concepts by reading, interpreting, and writing about a variety of literature and other cultural texts. In this textbook free course, students survey a broad selection of readings while studying the structures of different literary genres; the elements of narratives, characterization, literary devices, and themes; and the concepts of style and grammar. Topics students will explore in this course include mood, style, and tone; grammatical rules and structure; the writing process; writing styles; word choices; and the reading of fiction, nonfiction, and poetry. Students will read the novel *Farewell to Manzanar*, by Jeanne Wakatsuki Houston and James D. Houston, and *The Diary of Anne Frank: A Play* by Albert Hackett and Frances Goodrich. **This course utilizes the Lincoln Learning Solutions Empowered™ curriculum.**

Delivery Mode
VC; BC

Mathematics 8

Mathematics 8 allows students to evolve and grow as a mathematician. Students explore a variety of concepts and learn to implement real-world applications to the more abstract algebraic concepts found through the course. Multi-step equations, graphing lines, and interpreting slopes are just a few of the concepts students work with to gain a better grasp on algebraic equations and problem solving. Some topics students explore in this class include number systems, square roots, sequences, rational and irrational numbers, linear and algebraic expressions, probability and data representation, surface area, the Pythagorean theorem, and solving equations. After completing this course, students will be prepared for Algebra I.

Delivery Mode
VC; BC

Science 8

This course introduces eighth grade students to an integrated approach to physical, environmental, and life sciences. Students will study science concepts and problem solving while exploring a wide variety of aspects of the living and nonliving world of science around them. The first part of the year is a study of life science. Students investigate important topics in histology (cells), heredity, and the biology of living organisms. Students will be given the chance to identify cells and cell compounds, and describe the cell in its environment. Learners will then examine different cell processes that lead to energy within the cell. Genetics and heredity will also be explored as students discover the importance of Gregor Mendel and his work with heredity. Adaptation, natural selection, and the evolution of organisms are also examined. During the second half of the year, topics involving meteorology, geology, astronomy, and physics are explored. Different types of geological processes throughout Earth's history will be investigated, and students will analyze the formation and composition of various planets and celestial bodies.

Delivery Mode
VC; BC

Social Studies 8

Social Studies 8 teaches students about American history and society, from the first human migrations to the Americas to the European colonization of the Americas and the founding of the United States, through the end of the Reconstruction period after the Civil War. Students will explore the causes and effects of the French and Indian War, and will study the First Continental Congress, Declaration of Independence, and challenges of governing a new nation. The course will move through the growth of the United States, including its political landscape in the early 1800s, and slavery and territorial expansion.

Delivery Mode
VC

Social Studies 8

Social Studies 8 teaches students about American history and society, from the first human migrations to the Americas to the European colonization of the Americas and the founding of the United States, through the end of the Reconstruction period after the Civil War. Students will explore the causes and effects of the French and Indian War, and will study the First Continental Congress, Declaration of Independence, and challenges of governing a new nation. The course will move through the growth of the United States, including its political landscape in the early 1800s, and slavery and territorial expansion. The second half of the course is an exploration of the United States after the Civil War. The Westward Expansion and Industrial Revolution and their implications for the future growth of the country are discussed in depth. The course then progresses into the wars of the 20th century, including the Spanish-American War, World Wars I and II, and the Korean War. In addition, the Great Depression, the Holocaust, and the Civil Rights Movement are examined. The course concludes with a study of the terrorist attacks of September 11, 2001, and America's role in the global economy.

Delivery Mode
BC



K-8 Additional Courses



Physical Education and Health (K-8)

Physical Education K-6

Pennsylvania Public School Law requires all students to complete an annual course in physical education. In compliance with the law, the school requires students in grades K through 6 to complete 36 hours of organized, supervised physical activity each school year. Students will receive a physical education kit which includes a workbook and items to complete different physical activities. Students are required to complete at least half of their physical education hours using the items they receive in the physical education kit. Students are also required to record their physical education hours in the PA Cyber Physical Education Log.

Delivery Mode
AC

Physical Education 7-8

Pennsylvania Public School Law requires all students to complete an annual course in physical education. In compliance with the law, the school requires students in grades 7 and 8 to complete 72 hours of organized, supervised physical activity each school year. Students will receive a physical education kit which includes a workbook and items to complete different physical activities. Students are required to complete at least half of their physical education hours using the items they receive in the physical education kit. Students are also required to record their physical education hours in the PA Cyber Physical Education Log.

Delivery Mode
AC

Middle School Health

By taking Middle School Health, students begin to learn about and adopt healthier lifestyles, diets, exercise routines, and family dynamics. This course covers topics from improving lifestyles to nurturing familial relationships to lessening stress and promoting longer, healthier lives. Students study mental health and how it impacts the overall health of any individual directly. Finally, students learn more about decision making and executing decisions that lead to improved overall health. Topics in this textbook free course include nutrition, fitness, family, peers, the health triangle, communication, conflict, emotions, disease and disease prevention, alcohol, drugs, tobacco, and health services. This course is appropriate for grades 7-8. **This course utilizes the Lincoln Learning Solutions Empowered™ curriculum.**

Delivery Mode
AC

Middle School Nutrition and Personal Fitness

Middle School Nutrition and Personal Fitness encompasses a variety of topics with a focus on nutrition, dietary needs, and physical fitness. In this textbook free course, students develop a foundation within the basics of nutrition principles and practices, learn to read food labels, and understand food safety concerns. In regards to physical fitness, students are exposed to exercise guidelines that promote healthy lifestyles. This course is appropriate for grades 7-8. **This course utilizes the Lincoln Learning Solutions Empowered™ curriculum.**

Delivery Mode
AC

Fine Arts (K-8)

First through seventh grade students are required to take an Arts Alive! Junior course each school year in order to meet the state's Fine Arts requirement. There are three levels for each course: Primary (Grades 1-3), Intermediate (Grades 4-5), and Middle (Grades 6-7).

Arts Alive! Junior is an engaging, video-based arts series. It is designed to raise awareness and improve understanding of the creative and performing arts, including music, visual and media arts, dance, theatre, and the literary arts. Arts Alive! Junior will focus on the role of the arts and artists in society, and it will identify the impact of art in the lives of students. Each course includes videos that bring the arts to life. Grade-appropriate activities and response questions will inspire students to become involved in the arts, and will assess understanding of the material and concepts presented. Every Arts Alive! Junior video, activity, and assessment is aligned with state and national standards.

Arts Alive! Junior Theme One – Seeing, Hearing, Thinking, Feeling

This course will help students develop interdisciplinary thinking about art and will allow them to become involved in the subject area while learning about art fundamentals across all disciplines. Students will also study the development of techniques for perceiving, interpreting, and decoding works of art.

Delivery Mode
AC

Arts Alive! Junior Theme Two – Around the World

This course furthers the development of students' skills for understanding and interpreting works of art. Key concepts include artwork that embodies diversity, ethnic differences, nationalism, and multiculturalism.

Delivery Mode
AC

Arts Alive! Junior Theme Three – America: An Arts Melting Pot

The third year of Arts Alive! Junior is devoted to providing students with opportunities to experience, analyze, and interpret how different ethnic cultures have made enormous contributions to American culture through the creative and performing arts. In the early 19th century, the term "melting pot" gained popularity as a description of the way diverse nationalities, ethnicities, and cultures began to come together to form a uniquely American culture. The arts were, and continue to be, a major part of this process, helping people to communicate in distinct ways, and to create and sustain rich and vibrant communities.

Delivery Mode
AC

Arts Alive! Junior Theme Four – Let's Get Creative

Creativity is the ability to produce or do something new, to solve a problem, or to develop or adapt a work of art or artistic form. The fourth year of Arts Alive! Junior is dedicated to exploring the role of personal and collective creativity in arts – and in everyday life.

Delivery Mode
AC

Arts Alive! Junior Theme Five – STEAM-Powered Learning

This year of Arts Alive! Junior presents an innovative vision for blending science, technology, engineering, and math (STEM) with the creative and performing arts to generate STEAM. This unique exploration will equip students to become critical thinkers and creative problem solvers, and to develop the skills necessary to collaborate successfully on interdisciplinary projects.

Delivery Mode
AC

Arts Alive! Junior Theme Six – What's the Big Idea?

Arts Alive! Junior Theme Six offers an engaging exploration of the ways in which the creative and performing arts help us to think about the "big ideas" in our lives. A big idea is any topic that is of vital importance to people, can be examined in many different ways, and from many different perspectives. The development of critical thinking skills is the essential goal of this exploration, helping the learner to productively consider significant issues related to life and death, good and evil, and love.

Delivery Mode
AC

Arts Alive! Junior Theme Seven – 21st Century Skills: The Way of the Artist

In recent decades, our world has undergone dramatic shifts. Unprecedented advances in digital technology and communications, a highly competitive economic environment, and both the promise and peril of globalization have tremendously altered society, creating unparalleled challenges for both individuals and groups of people. In this theme of Arts Alive! Junior, students will explore a core set of skills that experts believe will be essential to success in the 21st Century, and how those skills can be developed in and through the creative and performing arts. An esteemed panel of five artists, each representing a different art form, will demonstrate how they have personally used and developed the core set of 21st Century skills in and through their work.

Delivery Mode
AC

Art and Music Exploration

Art and Music Exploration will introduce visual art and music as artistic forms, as well as provide an opportunity for students to experience the arts and discover how the arts add richness to our lives. This course presents many different styles and works of art and music, and teaches students about Pennsylvania artists and musicians. Audio podcasts, videos, and web-based activities keep learners engaged in order to develop a new appreciation for the arts. The first portion of the course focuses on how art is created, while the second portion focuses on music. Together, they show how art reflects and influences history and culture. This course is for students in grade 8 only.

Delivery Mode
AC

* Students enrolled in Kindergarten will have their Fine Arts requirement met through their curriculum (Little Lincoln or Calvert).

* Students enrolled in Grade 8 must take Art and Music Exploration (AC).



Elementary and Middle School Electives (Grades K-8)

Art K-1

In Art K-1, students are introduced to the expression of ideas and demonstration of creativity through many different forms of art. Students will create numerous products by using a wide variety of materials. Students will also learn about an assortment of artists and the common tools they use to create their works. Students will be versed in art terminology so they are able to connect ideas and demonstrate the beginnings of a strong artistic foundation. Activities students complete allow for an understanding of texture, famous artists, proper use of art tools, recycled art, art in the environment, sculpture, lines, color, contrast of black and white, and the alphabet. **This course utilizes the Lincoln Learning Solutions Empowered™ curriculum.**

Delivery Mode
AC

Art 2-3

In Art 2-3, students are introduced to the expression of ideas and creativity through art. Students learn about artistic terms, create pieces of art, and demonstrate artistic capabilities. Students will become versed in common vocabulary so they are able to connect ideas and demonstrate the beginnings of a strong artistic foundation. Activities students complete include explorations with warm and cool shades, reflection painting, landscapes, watercolors, and collages. **This course utilizes the Lincoln Learning Solutions Empowered™ curriculum.**

Delivery Mode
AC

Art 4-5

In Art 4-5, students are introduced to the expression of ideas and creativity through art. Students learn about artistic terms, create pieces of art, and demonstrate artistic capabilities. Students will become versed in common vocabulary so they are able to connect ideas and demonstrate the beginnings of a strong artistic foundation. Activities students complete include color circles, toy designs, name art, still life observations, and problem solving in art. **This course utilizes the Lincoln Learning Solutions Empowered™ curriculum.**

Delivery Mode
AC

Art 6-7

In Art 6-7, students are introduced to the expression of ideas and creativity through art. Students learn about artistic terms, create pieces of art, and demonstrate artistic capabilities. Students will become versed in common vocabulary so they are able to connect ideas and demonstrate the beginnings of a strong artistic foundation. Activities students complete include collages, letter illumination, shadow shapes, jewelry design, watercolor techniques, color schemes, the color wheel, and still life observations. **This course utilizes the Lincoln Learning Solutions Empowered™ curriculum.**

Delivery Mode
AC

Music K-1

In Music K-1, students are introduced to the expression of creativity through music. Students will explore a variety of songs about everyday topics. Students will also learn about the ways that songs are created through the placement of different notes and keys. To develop a strong musical background, students will learn music terminology and will be exposed to music that is created by many different groups of individuals with various backgrounds. Activities students will complete will allow for further understanding of the months of the year, numbers, food, traditional nursery rhymes, and science. **This course utilizes the Lincoln Learning Solutions Empowered™ curriculum.**

Delivery Mode
AC

Music 2-3

In Music 2-3, students are introduced to the expression of ideas and creativity through music. Students learn about music terminology through different instrument groups and by learning to read music. Students are also exposed to different forms of music and popular songs within Western and worldwide music. Activities students will complete will allow for further understanding of creating and expressing music, musical notation, rhythm, calls and response, movement, and time. **This course utilizes the Lincoln Learning Solutions Empowered™ curriculum.**

Delivery Mode
AC

Music 4-5

In Music 4-5, students are introduced to the expression of ideas and creativity through music. Students learn about music terminology through different instrument groups and by learning to read music. Students are also exposed to different forms of music and popular songs within Western and worldwide music. Activities students will complete will allow for further understanding of European folk music, American folk music, jazz, blues, key composers, harmony, intervals, song structure, and reading music. **This course utilizes the Lincoln Learning Solutions Empowered™ curriculum.**

Delivery Mode
AC

Music 6-7

In Music 6-7, students are introduced to the expression of ideas and creativity through. Students learn about music terminology through different instrument groups and by learning to read music. Students are also exposed to different forms of music and popular songs within Western and worldwide music. Activities students will complete will allow for further understanding of chords and chord structure, history of recorded music, piano and famous composers, brass dynamics and percussion, basic notes and rhythms, beginning composition, and ear training. **This course utilizes the Lincoln Learning Solutions Empowered™ curriculum.**

Delivery Mode
AC

Introduction to Computer Programming

This course allows students to gain insight to the world of computer programming, data processing, scripting, and coding. Through Introduction to Computer Programming, students are frequently challenged with problems that require different programs and scripts to resolve. Students will look into careers within this realm by focusing on security in technology, creative software, animation software, and hardware programming. In this textbook free course, students also cover the basics of computer programming, ensuring they are well-rounded, computer-minded students. Some topics students will explore include technology quality assurance, programming languages, encoding and decoding, scripting and coding, databases and data processing, file management, ergonomics, and adaptive technology. This course is appropriate for students in grades 6-8. **This course utilizes the Lincoln Learning Solutions Empowered™ curriculum.**

Delivery Mode
AC

Introduction to Foreign Language

Introduction to Foreign Language is geared toward students who are interested in taking a foreign language, but are not sure in which language they would like to begin their studies. This course provides the perfect introduction to the German, Spanish, and French languages, while exploring culture and other important dynamics. Basic vocabulary and structures of each language are introduced in a fun and educational way in this textbook free course. Introduction to Foreign Language is appropriate for grades 6-8. **This course utilizes the Lincoln Learning Solutions Empowered™ curriculum.**

Delivery Mode
AC

Introduction to Typing

Students who are interested in learning proper typing techniques and increasing their typing speed or WPM (words per minute) are a perfect fit for this introductory course. Introduction to Typing is an exciting beginner's course that teaches proper techniques through interactive and engaging lessons and activities. In this textbook free course, students have the opportunity to learn proper posture, finger positioning, and typing strategies. Some topics explored in this course include internet safety and netiquette, rapid typing lessons, formatting documents, punctuation and spacing rules, and QWERTY and numeric keyboards. This course is appropriate for grades 6-8. **This course utilizes the Lincoln Learning Solutions Empowered™ curriculum.**

Delivery Mode
AC

9–12 High School

Graduation Requirements

The Pennsylvania Cyber Charter School is committed to providing its students with a well-rounded education in preparation for their future. Students will find a variety of curricular options to suit their needs and interests to fulfill the set requirements to graduate. Upon graduation, PA Cyber students will be college- and career-ready. The PA Cyber Graduation Requirements follow the guidelines set forth by the Commonwealth of Pennsylvania.

4.0	Credits English Language Arts
4.0	Credits Mathematics (1.0 credit in Algebra I required)
3.0	Credits Science (1.0 credit in Biology required)
4.0	Credits Social Studies
2.0	Credits Fine Arts
3.5	Credits Electives
1.0	Credit Physical Education
0.5	Credit Health
22.0	Credits Total Required for Graduation

The Commonwealth of Pennsylvania and the Pennsylvania Cyber Charter School require all students complete a senior project to be eligible for graduation.

The Pennsylvania Cyber Charter School encourages parents to monitor their child's progress toward meeting graduation requirements. Parents play a vital role in ensuring that their child has earned the required number of credits by their senior year. Typically, a student begins to accumulate credits as a freshman.

THE 2010S

→ TO 1870 - 1920

→ TO 1914 - 1933

→ TO 1933 - 1945

→ TO 1945 - 1980

HISTORICAL

Political Reform

- election of 1892
- election of 1896 / 1900 / 1904 / 1908
- The Greenback Party emerged as a force in national politics. (Populist)

War, prosperity and Depression



9-12 High School Courses



English Language Arts

Four credits in English Language Arts are required for graduation.

English 9

English 9 introduces learners to elements of literature from classic to modern times using the genres of fiction, nonfiction, short story, novel, poetry, drama, and essay. The main works selected for this course are the epic *The Odyssey* and Shakespeare's drama *The Tragedy of Romeo and Juliet*. In addition, Virtual Classroom students will read the novel *Chasing Lincoln's Killer* by James L. Swanson. Through reading, learners will develop skills in literary analysis and interpretation by establishing understandings of literary elements such as plot and setting, character, narrator and voice, tone and mood, symbolism and irony. Learners will also analyze nonfiction works for form, style, and persuasion. The study and analysis of poetry will include material by several poets, and students will analyze the use of poetic devices, including figurative language, tone, and diction. Skills for strengthening vocabulary, grammar, and mechanics will be examined as well, and lessons focusing on the stages of the writing process will be evaluated. The final unit of this course will focus on consumer and technical documents, as students will examine several real world texts, including online resources and workplace materials. Throughout the course as a whole, students will display a mastery of the elements of fiction and nonfiction through learning activities and assessments that will assess their ability to think critically, analyze a variety of texts, and write narratives, essays, and arguments coherently.

Delivery Mode
VC; BC
Credit
VC: 1.0
BC: 1.0
NCAA Approved

English 10

English 10 is focused on literature, grammar, and composition. Students will examine the different elements of a story, including plot, setting, character, narrator, and voice. To understand these concepts, all students will read and respond to a variety of fiction and poetry, including the classic works *Julius Caesar* and *To Kill a Mockingbird*. Virtual Classroom students will also read *Animal Farm* by George Orwell. Strategies for strengthening vocabulary and grammar skills will be examined and practiced. Students will display mastery of these concepts through various learning activities and assessments, including tests, quizzes, writing assignments, project, essays, and journal exercises. Throughout the course, time is spent focusing on research, parts of speech and grammar, reading comprehension, and poetry. Upon completion of this course, students will be required to take the Keystone English Literature exam.

Pre-Requisites: English 9

Delivery Mode
VC; BC
Credit
VC: 1.0
BC: 1.0
NCAA Approved

American Literature

In this course, students are invited to travel through the various cultural periods of American literature. Students will explore American literary traditions of the 19th century and will study the darker side of Romanticism while exploring the horror story genre, reading selections from authors such as Edgar Allan Poe. Literature from the Civil War Era and stories of slavery, such as an excerpt from the *Narrative of the Life of Frederick Douglass*, will be analyzed. Post-Civil War literature pertaining to Native Americans, pioneers, settlers, and women is also addressed. A unit on the Age of Realism focuses on the authors Mark Twain and Bret Harte. Students will also compare and contrast works on Realism and Naturalism by focusing on the works of Jack London and Beck Weathers. Students will explore the Modern Era by

Delivery Mode
VC; BC
Credit
VC: 1.0
BC: 1.0
NCAA Approved

reading a collection of poetry and modern American fiction works, including short stories and speeches. Students will learn about the Harlem Renaissance by reading and studying essays and poems from that era. Finally, the course will conclude with a study of the Contemporary Period, where students will read many different genres of literature, including poetry, drama, fiction, and nonfiction. In addition, Virtual Classroom students will read the novels *Night* by Elie Wiesel, and *Ender's Game* by Orson Scott Card. Students will complete the course with a deeper understanding of the major contributions literature has made in the development of our country. **Pre-Requisites:** English 9; English 10

British Literature

British Literature provides students with a survey of British literature that includes texts from the Anglo-Saxon and Medieval eras, the English Renaissance, and the Restoration and Enlightenment eras. The second half of the course provides students with a survey of English texts from the Romantic Era, the Victorian Era, and the Modernist Era, as well as the mid to late 20th century (1900 C.E. - present). Readings in the course include *Beowulf*, Chaucer's *Canterbury Tales*, Shakespeare's *Macbeth*, and Swift's *Gulliver's Travels*. Through a wide range of writing and thinking exercises, British Literature offers students numerous chances to understand, analyze, synthesize, and evaluate the texts they read. The readings for each unit will impart various themes, including historical context presented in those texts. By the end of the course, students will be able to think critically and communicate effectively with regard to the works covered in the texts and the eras encompassed by those works. **Pre-Requisites:** English 9; English 10; American Literature

Delivery Mode
BC
Credit
BC: 1.0
NCAA Approved

Literary Explorations

The literature of the world is connected one way or another. From the philosophical writings of the ancient world to the contemporary novels of today, literature is linked in a global, timeless communication that will continue on into the future. Literary Explorations attempts to pinpoint and analyze some of these connections. Whether it is the wisdom of Plato, the predictions of Orwell, or the imagination of Tolkien, avid readers can find similar themes, ideas, and truths that help to define the world around us. By identifying linkages in literature, readers may find themselves making their own connections by observing the world around them, watching films or television, reading the newspaper, and conversing with others. Readings in the course include Lowry's *The Giver*, *Gathering Blue*, and *Messenger*; Rand's *Anthem*; Bradbury's *Fahrenheit 451*; Orwell's *Animal Farm* and 1984; Skinner's *Walden Two*; Raffel's translation of *Beowulf*; and Tolkien's *The Hobbit* and the *Lord of the Rings* trilogy. **Pre-Requisites:** English 9; English 10; American Literature

Delivery Mode
VC
Credit
VC: 1.0
NCAA Approved

AP English Literature

Maturity of Thought - Devotedness to Learning - Willingness to Transcend: these are the core tenants of Advanced Placement English Literature. An adherence to these will allow one to become a distinguished student of literature, composition, and everything in between. This course follows all of the curricular guidelines set forth by the College Board's AP Course Description, and will allow students to study key authors, ideologies, and contexts while responding in writing. Students may receive college credit based upon completion of the course and a sufficient score on the AP Exam. This course is designed to teach students college level writing coupled with a distinct understanding of various literary genres. The introduction into these genres will take the class near and far, studying authors, poets, and dramatists of varied cultures and eras. A well-rounded education of literature sets students free to study the influence of an author's work in their historical and cultural situation, as well as our own. As the author, their history, and their influence are studied, the student's responsibility then, is to respond. Writing, discussion, and personal analysis will be the main modes of response. In order to study a piece of literature through critical analysis, a student must be able to understand, explain, and evaluate a text on a variety of levels, genres, styles, and contexts, vocabulary, syntax, mechanics, and figurative language. Featured novels include, *The Great Gatsby*, *The Namesake*, *Crime and Punishment*, *Brave New World*, and *The Grapes of Wrath*. These things and more will all be an important part to the collaborative study of literature. This course is a College Board-approved Advanced Placement course. **Pre-Requisites:** English 9; English 10; American Literature; Letter grade of B or higher in previous English courses

Delivery Mode
VC
Credit
VC: 1.0
NCAA Approved

Classical Mythology

This textbook free course establishes a solid foundation for the study of classical mythology by providing concise histories of Ancient Greece, Ancient Rome, and the European Renaissance. Learners will read a variety of myths that introduce characters such as gods, goddesses, monsters, heroes, and other deities. Vocabulary that derives from Greek and Latin words will be introduced. Lessons will examine how mythology is incorporated into our Western culture through the naming of planets, months, days of the week, and so on. Artwork, poems, and music will also be explored in terms of classical references. Learners will demonstrate their knowledge of the content through a variety of writing assignments, including a compare and contrast research paper; characterization; letter, myth, and critique writing; and the creation of an advertisement and collage. **Pre-Requisites:** None

Delivery Mode
BC
Credit
BC: 0.5
NCAA Approved

Global Mythology

Global Mythology offers students an interactive way to learn about myths found throughout the world. Each unit in this textbook free course focuses on a particular region and its culture: Europe – Greek and Roman culture; Asia – Asian culture; North and South American – Native American culture; Africa – African and Egyptian culture; and Australian culture. Students will carefully study these cultures and their myths, which will introduce a variety of characters such as gods, goddesses, monsters, heroes, and deities. Mythical places and sacred locations will also be examined, and relevant vocabulary words will be introduced. Lessons will analyze how mythology is incorporated into our Western culture. Artwork, poems, and music from relevant cultures will also be incorporated. Learners will demonstrate knowledge of content through a variety of writing assignments. **Pre-Requisites:** None

Delivery Mode
BC
Credit
BC: 0.5
NCAA Approved

Essentials of English Usage

Essentials of English Usage serves as an introductory or a refresher course to grammar, and covers effective writing, sentence skills, parts of speech, modifiers and parallelism, punctuation and mechanics, and word usage. Students will master Standard English so they can succeed in the classroom, the workplace, college, or a technical area. Students will also build a working vocabulary throughout the course. **Pre-Requisites:** None

Delivery Mode
VC (Fall Only); BC
Credit
VC: 0.5
BC: 0.5

Introduction to Short Stories

In this course, students will read various short stories and will learn about the literary elements of plot, character, point of view, and setting, as well as suspense and irony. Students will become acquainted with the compact nature of the short story literary form and each author's ability to weave exciting, interesting narratives in such short, tight spaces. Students will also learn the importance of being concise and will recognize that good literature does not necessarily have to be lengthy in order to be captivating. **Pre-Requisites:** None

Delivery Mode
VC (Spring Only); BC
Credit
VC: 0.5
BC: 0.5
NCAA Approved

African American Literature

In this course, students are invited to travel through the various cultural periods of African American literature. This course explores the narratives of Africans and African Americans who have made significant contributions that have shaped the world. Students will be exposed to African American literature and culture, from the past to the present, and will learn how this literature has been used to strive toward a better future for all African Americans. Students will begin the course by learning about the period from prehistory to 1750. The course then examines African American literature in the pre- and post-Civil War eras. The course finishes with modern selections from such writers as Martin Luther King, Jr., Ida B. Wells, Langston Hughes, Maya Angelou, and Queen Latifah. **Pre-Requisites:** None

Delivery Mode
BC
Credit
BC: 0.5
NCAA Approved

Young Adult Literature

This upper level course will give students the opportunity to become lifelong readers by being exposed to quality young adult literature (YAL) and by being able to connect to teenage protagonists. Various themes and coming of age issues will be addressed throughout this course making the literature relatable and interesting. Today, 21st century students face different issues than 20th century teenagers, and there is a plethora of YAL that can help the teens of today cope and resolve conflict in their own lives. The course will explore themes of alienation, family issues, self-discovery, relationships, death, suicide, and survival. In Young Adult Literature, students will read eight novels and the heavy reading load will require students to read outside of class. In addition, live class sessions require active participation. Students are expected to complete pre-class work prior to live sessions. Young Adult Literature will include the following texts: *The Outsiders*, *Tuesdays with Morrie*, *Speak*, *The Fault in Our Stars*, *13 Reasons Why*, *The Alchemist*, *Staying Fat for Sarah Byrnes*, and *Kissing Doorknobs*. **Pre-Requisites:** English 9; English 10

Delivery Mode
VC

Credit
VC: 1.0

Technical Writing

This course will introduce written communication skills that are needed specifically in business and industry. Technical Writing enables students to understand the different documents required in a business environment. While studying rules of grammar and mechanics, students will apply newly learned skills to perfect their technical writing abilities. Varied assessments will provide students the opportunity to properly format sample technical documents. Students will demonstrate knowledge of content through a variety of assignments such as journal writing, attaching documents and emails, directional writing, memoir, and letter writing. **Pre-Requisites:** None

Delivery Mode
VC (Fall Only); BC

Credit
VC: 0.5
BC: 0.5

Creative Writing

Creative Writing is a textbook free workshop course in which students discover, analyze, and apply the methods and styles used in various forms of fiction, creative nonfiction, drama, and poetry. It emphasizes experimentation, practice, and taking cues from published writers and poets. The course also gives students the opportunity to express themselves while learning different genres and writing rules. Writing is a craft, a process, and a form of art in itself. Creative Writing not only provides all participants with an opportunity to express themselves, but also supplies focus on word choice, diction, form, editing, idea generation, and other skills useful in nonfiction writing. The one way to become a good writer is by writing, and students will do a great deal of writing in this course. **Pre-Requisites:** None

Delivery Mode
VC (Spring Only); BC

Credit
VC: 0.5
BC: 0.5

NCAA Approved

Mathematics

Four credits in Mathematics, including Algebra I, are required for graduation.

Pre-Algebra

Pre-Algebra teaches students about expressions, integers, equations, inequalities, decimals, factors, fractions, exponents, ratios, proportions, and percents. In Pre-Algebra, students will work with equations and inequalities, linear functions and graphing, data analysis and probability, and polynomials. There is an emphasis on the use of technology, problem solving, critical thinking, and reasoning. This course is designed for high school students who would benefit from additional study of algebraic concepts before Algebra I. Pre-Algebra is not a pre-requisite for Algebra I if a student has completed Mathematics 7 or 8.

Pre-Requisites: None

Delivery Mode
VC; BC

Credit
VC: 1.0
BC: 1.0

Algebra I

Algebra I is an exploration of variables, function patterns, graphs, and equations. Students are expected to describe and translate graphic, algebraic, numeric, and verbal representations of relations and use those representations to solve problems. Students are introduced to rational numbers, systems of equations and inequalities, exponential functions, factoring, and quadratic equations and functions. Algebra I provides a solid foundation for further study in mathematics by helping students develop computational, procedural, and problem solving skills. Upon completion of this textbook free course, students will be required to take the Keystone Algebra I exam. **This course utilizes the Lincoln Learning Solutions Empowered™ curriculum.** **Pre-Requisites:** Mathematics 7 or Mathematics 8 or Pre-Algebra

Delivery Mode
VC; BC

Credit
VC: 1.0
BC: 1.0

NCAA Approved

Geometry

Geometry investigates points, lines, planes, reasoning and proof, parallel and perpendicular lines, relationships within triangles, and quadrilaterals. Other topics investigated include similarity, right triangles and trigonometry, transformations, area, surface area, volume, and circles. Technology is stressed and integrated into lessons and exercises throughout the course in order to improve students' overall understanding and performance of geometric concepts. Goals in the study of geometry are the development of reasoning ability, problem solving, and critical thinking.

Pre-Requisites: Algebra I

Delivery Mode
VC; BC

Credit
VC: 1.0
BC: 1.0

NCAA Approved

Algebra II

In Algebra II, students analyze situations verbally, numerically, graphically, and symbolically. Students will become proficient at solving equations and inequalities. Students extend their knowledge of algebraic expressions, absolute value, functions, and graphs. Writing and graphing linear equations and inequalities, and studying problems which solve systems of equations, inequalities, quadratic expressions, and complex numbers is a major component of this course. Rational expressions, roots and radicals, operations with complex numbers, and quadratic equations are covered in the second half of the course. In addition, students explore trigonometric functions, sequences and series, probability, and matrices.

Pre-Requisites: Algebra I

Delivery Mode
VC; BC

Credit
VC: 1.0
BC: 1.0

NCAA Approved

Trigonometry

This course begins by covering basic fundamentals of trigonometry. It accelerates quickly into more advanced trigonometry applications that encompass principles of science, technology, and engineering. Students will explore concepts from radian and degree measurement to unit circles, trigonometric functions, and sine and cosine functions. **Pre-Requisites:** Algebra I; Geometry; Algebra II

Delivery Mode
VC

Credit
VC: 1.0

NCAA Approved

Advanced Statistics

This course teaches methods and terminologies of descriptive and inferential statistics. Students who complete this course will be able to conduct their own analyses of standard one-sample or two-sample data sets, follow statistical reasoning, and read statistical reports with understanding. Additional topics include association and regression, causation and evidence, and probability. Introductory topics in linear regression and analysis of variance will also be discussed. This course uses college level materials. Students are also encouraged to take the course concurrently with Pre-Calculus or Calculus when possible. **Pre-Requisites:** Algebra I; Algebra II; Letter grade of B or higher in Algebra II or strong recommendation of teacher

Delivery Mode
VC

Credit
VC: 1.0

NCAA Approved

Pre-Calculus

In Pre-Calculus, students develop a deeper understanding of functions and their graphs. The function types covered in depth in this course include polynomial, rational, exponential, logarithmic, and trigonometric. Topics covered in relation to polynomial and rational functions include complex numbers, zeroes of polynomial functions, and synthetic division. Some exponential and logarithmic topics discussed are change of base formulas, properties of logs, growth and decay, and logistic growth models. The second half of the course introduces trigonometry topics such as identities, trigonometric equation solving, half-angle and double-angle formulas, the law of sines, and the law of cosines. Students solve linear equalities and inequalities in two and three variables using graphing and algebraic techniques (i.e. substitution, row-echelon, and Gaussian elimination). Infinite series, partial sums of series, and geometric series are introduced and limits are studied. Statistical concepts include probability, the counting principle, and the Binomial Theorem. The course concludes with an in-depth study of conics (i.e. parabolas, hyperbolas, and ellipses). **Pre-Requisites:** Algebra I; Geometry; Algebra II

Delivery Mode
VC; BC

Credit
VC: 1.0
BC: 1.0

NCAA Approved

Calculus

Students in this course will study the calculus of a single variable. It is a rigorous mathematics course that builds on the student's understanding of polynomial, trigonometric, exponential, and logarithmic functions. These functions are studied intensely through an investigation of limits, derivatives, and integration. Emphasis is placed on real world applications that utilize a numerical, graphical, and analytical approach. **Pre-Requisites:** Algebra I; Geometry; Algebra II; Pre-Calculus

Delivery Mode
VC

Credit
VC: 1.0

NCAA Approved

AP Calculus AB

AP Calculus AB is an accelerated course meant to prepare students who plan to take the Advanced Placement Calculus AB exam. AP Calculus AB teaches a balanced approach to problem solving, using analytical, algebraic, numerical, graphical, and verbal/written methods of representing problems. This course begins with a brief review of linear, polynomial, exponential, parametric, logarithmic, and trigonometric functions. Students also study the integral as an accumulation function, the area under a curve, and the volume of a surface of revolution. Students will explore the derivatives of functions, the chain rule, implicit differentiation, and the mean value theorem. The course also includes optimization, linearization, and related rates. Students will study definite integrals, antiderivatives, and the fundamental theorem of calculus. This course is a College Board-approved Advanced Placement course. **Pre-Requisites:** Algebra I; Geometry; Algebra II; Pre-Calculus; Letter grade of A recommended in all previous mathematics courses

Delivery Mode
BC

Credit
BC: 1.0

NCAA Approved

Practical Mathematics

In Practical Mathematics, students will learn valuable math concepts they will use in their daily lives. They will review addition, subtraction, multiplication, and division of whole numbers, decimals, fractions, and integers. This course will also teach students how to work with ratios, proportions, and percents. Math skills for business and consumers, the basics of statistics and measurement, and integers will be explored. There will be a focus on problems involving signed numbers and solving equations. In addition, basic geometric concepts including perimeter, area, volume, and circumference will be discussed. Throughout the course, word problems will relate concepts to practical solutions. Practical Mathematics utilizes an online textbook. **Pre-Requisites:** None

Delivery Mode
BC

Credit
BC: 1.0

Consumer Mathematics

Consumer Mathematics shows students how math is used in everyday life. The course instructs students on how to calculate earnings from a job, shop for and work with food, buy clothing, manage a household, buy and maintain a car, and help students understand interest rates and car insurance premiums. Basic mathematical skills, including dividing, multiplying, adding and subtracting integers, working with one-step equations, and percentages, are all reinforced. Additional topics include home improvement costs, travel expenses, budgets, taxes, banking, and investing. Consumer Mathematics teaches problem solving strategies and alternate methods of computation to solve a wide range of consumer problems. **Pre-Requisites:** None

Delivery Mode
VC; BC

Credit
VC: 1.0
BC: 1.0

Business Mathematics

In Business Mathematics, students will explore a variety of basic mathematical concepts, including algebraic equations, formulas, and operations using fractions, decimals, and percents. This course will show students how to work with percents to solve application problems and how to understand the mean, median, and mode of a distribution of data. Students will learn to implement real-world applications to solve business math problems, such as those related to banking services, payroll, taxes, and insurance. Students will develop an understanding of buying, markups, selling prices, markdowns, and inventory. In addition, students will learn about simple interest, compound interest, annuities, and loans, while also gaining knowledge of depreciation, stocks, and bonds. Practice problems will promote proficiency in dealing with every day mathematical transactions. Business Mathematics utilizes an online textbook only. **Pre-Requisites:** None

Delivery Mode
VC; BC

Credit
VC: 1.0
BC: 1.0

Science

Three credits in Science, including Biology, are required for graduation.

Biology

Biology covers a wide range of concepts in the field of biology. Students will study the cell, including cell structure and function. The concept of the cell is extended, and students explore Mendelian genetics and how humans inherit traits. In addition, the course examines the structure and mechanisms of DNA, as well as the role of biotechnology in today's society. Students also explore the theory of evolution, including early ideas, how populations evolve, and the history of life on Earth. Students discuss the concept of ecology, where they learn about different principles of ecology, interactions that occur within ecosystems, the biosphere, and how humans have impacted ecosystems thus far. Upon completion of this textbook free course, students will be required to take the Keystone Biology exam. **This course utilizes the Lincoln Learning Solutions Empowered™ curriculum. Pre-Requisites:** None

Delivery Mode
VC; BC
Credit
VC: 1.0
BC: 1.0
NCAA Approved

AP Biology

AP Biology serves as an equivalent to a two-semester introductory college biology course. Students enrolling in this course must have taken Biology in a previous school year; it is not a first year Biology course. Students taking this course may be eligible for college credit upon successful completion of the course and a sufficient score on the AP Biology exam administered by the College Board. This course differs from a traditional high school biology course by the textbooks used, the range and depth of topics covered, laboratory work, and the time and effort required by students. AP Biology is structured to the four Big Ideas in Biology as set forth by the College Board. These four Big Ideas include Evolution, Cellular Processes: Energy and Communication, Genetics and Information Transfer, and Interactions. Students will understand how the process of evolution drives the diversity and unity of life. Biological systems that utilize free energy and molecular building blocks to grow, to reproduce, and to maintain dynamic homeostasis will be examined. Students will develop an understanding of how living systems store, retrieve, transmit, and respond to information essential to life processes. Finally, students will be able to describe how biological systems interact, and these systems and their interactions possess complex properties. This course is a College Board-approved Advanced Placement course. **Pre-Requisites:** Biology; Chemistry or Physical Science; One additional science course; Letter grade of B or higher in all previous science courses.

Delivery Mode
VC
Credit
VC: 1.0
NCAA Approved

Bioinformatics

Bioinformatics was developed by Better Educators of Science for Tomorrow (B.E.S.T.) of the Pittsburgh Supercomputing Center at Carnegie Mellon University. Students will discover how concepts from math, biology, and chemistry are applied to the functions of DNA, RNA, and protein production and function. In addition, students will learn how to make use of the data generated by the Human Genome Project. Students will learn how to search and compare genetic data from different organisms utilizing several DNA and protein identification programs currently being used in medical, forensic, agricultural, and other life science research. The goal of this class is to introduce students interested in pursuing a degree in life sciences to possible career fields that are just beginning to evolve. **Pre-Requisites:** Algebra I; Biology; Chemistry

Delivery Mode
VC
Credit
VC: 1.0
NCAA Approved

Earth Science

This course covers many aspects of Earth science, including the nature of scientific investigation, Earth's matter and composition, Earth's chemistry, the history of the Earth, and the dynamics of Earth's changing surface. Early concepts introduced include topics such as Earth's revolution and rotation, as well as the advantages and disadvantages of various renewable and nonrenewable resources. Students will explore rocks and minerals, plate tectonics, volcanoes, earthquakes, weathering, and erosion. The second half of the course investigates freshwater systems on the Earth, the Earth's atmosphere, oceanography, and astronomy. Students will examine the Earth's river systems, groundwater, and glaciers. Then, students will explore Earth's atmosphere, including its composition, movement of heat, compounds, and water vapor. Students will compare the formation of various types of clouds and patterns of air circulation, while also examining the Earth's weather by identifying air masses, fronts, and storms. In studying oceanography, students will explore the Earth's oceans, the properties of salinity, the composition of the ocean floor, and the features of currents and tides. Finally, students will study astronomy by exploring the moon, sun, and solar system, as well as distant stars and galaxies. **Pre-Requisites:** None

Delivery Mode
VC; BC
Credit
VC: 1.0
BC: 1.0
NCAA Approved



Fundamentals of Ecology

Fundamentals of Ecology, a textbook free course, explores the basic concepts of ecology. Students will investigate the many different systems in the environment that make up the world around us. Habitats, biomes, and energy resources are among the topics of discussion. Current case studies and online activities are used to bring the subject matter to life. Fundamentals of Ecology will touch upon ways that humans can influence the environment, which makes it a great precursor to an Environmental Science course. **Pre-Requisites:** None

Delivery Mode
BC
Credit
BC: 0.5
NCAA Approved

Environmental Science

Environmental Science will introduce students to the scientific method, terrestrial and aquatic ecosystems, biomes of the world, trophic interactions, and nutrient and chemical cycles. Students will discuss the various forms of energy, including both renewable and nonrenewable resources. Students will learn ways in which humans can use the land, and will also explore the impact humans have on the environment. Current events and topics related to today's environment will also be discussed. Ways in which humans can reduce negative environmental consequences will also be explored. **Pre-Requisites:** None

Delivery Mode
VC; BC
Credit
VC: 1.0
BC: 0.5
NCAA Approved

Physical Science

Physical Science will introduce two areas of study — chemistry and physics. The first half of the course introduces students to the study of chemistry. Throughout their studies, students will investigate topics surrounding matter, atomic structure, bonds, chemical reactions, and the periodic table. The second half of this course entails a concentration on physics. Students will investigate topics involving motion, forces, energy, waves, and electricity. **Pre-Requisites:** Algebra I

Delivery Mode
VC; BC
Credit
VC: 1.0
BC: 1.0
NCAA Approved

Chemistry

Chemistry explores many aspects within the subject of chemistry. Students will begin by investigating matter, atomic structure, and the periodic table. The role of electrons with respect to ionic, metallic, and covalent bonding is then explored. Students will also demonstrate the ability to name and to write formulas for ionic compounds, molecular compounds, and acids and bases. Mole-mass relationships and mole-volume relationships will be analyzed. In the second half of Chemistry, students investigate subjects such as chemical reaction, stoichiometry, and the different states of matter. The behavior of gases, aqueous systems, and solutions will then be explored. Students will continue their study of chemistry by focusing on thermochemistry, reaction rates, and equilibrium. Finally, students will analyze acid and base theories, as well as oxidation-reduction reactions. In addition to virtual experiences, the lessons in this course will provide students with hands-on lab experience through various inquiry activities and mini-labs that can easily be performed in the home. These experiences encourage skills necessary for critical thinking. **Pre-Requisites:** Biology; Algebra I

Delivery Mode
VC; BC
Credit
VC: 1.0
BC: 1.0
NCAA Approved

Physics

In this course, students will cover topics related to algebraic analysis of classical mechanics including vectors, one- and two-dimensional kinematics, Newton's laws of motion, energy, work, power, momentum, waves, optics and electricity. Students will investigate and find solutions to problems involving these topics. There will also be online labs, simulations, and animations completed through the course textbook. **Pre-Requisites:** Algebra I; Algebra II

Delivery Mode
VC; BC
Credit
VC: 1.0
BC: 1.0
NCAA Approved

Astronomy

Students will begin Astronomy by taking an in-depth look into the night sky. Students will learn about the stars, constellations, and phases of the Moon. The course will then discuss the cycles of the Sun, which influence the Earth's climate. Students will become familiar with the origin of modern day astronomy as they learn about modern methods of measurement and observation, ground-based and space-based astronomy, and ancient instruments and techniques for observation. There will be concentration on solar activity, classification of stars, star formation, and the death of a star. The second half of Astronomy takes a step outside planet Earth and takes an in-depth look at the discovery and exploration of the Milky Way galaxy. Students will analyze the Big Bang theory and evidence that supports the creation of our solar system. Students will then explore the creation and properties of terrestrial and gaseous planets, recognizing what makes each planet unique. Lastly, students will explore foreign bodies of the solar system, such as meteors, asteroids, comets, and asteroid and comet impacts. Astronomy utilizes an online textbook. **Pre-Requisites:** None

Delivery Mode
BC

Credit
BC: 1.0

NCAA Approved

Forensic Science

Forensic Science, a two-unit, textbook free course, will introduce students to the fascinating worlds of crime scene investigation and laboratory science. Students will learn the fundamental procedures involved in investigating and processing forensic evidence. They will explore historic and theoretical crime scenes and apply the procedural methods required for examination, collection, and documentation of evidence. They will also explore the forensics lab to learn about testing methods, equipment, safety measures, and results interpretation. Additionally, students will explore the various fields and careers in forensic science. **Pre-Requisites:** Biology

Delivery Mode
BC

Credit
BC: 0.25

NCAA Approved

Sports Medicine

This two-unit, textbook free course is an introduction to sports medicine that will provide students with basic knowledge about the field of sports medicine, the anatomy of the body, and common injuries that occur in sports. The first half of the course deals with the anatomy of the body and techniques used in sports medicine to train and strengthen the body. The second half helps students better understand how injuries occur and what treatment options are available. **Pre-Requisites:** Biology

Delivery Mode
BC

Credit
BC: 0.25

Cutting Edge Science

This textbook free course explores four popular topics in the biological sciences: epidemiology, sports medicine, forensics, and stem cell research. Students will learn about new trends in research and technology in these areas, and how each of these fields impact their everyday life. The epidemiology portion will explore health and disease within a population, with students learning how to utilize data to solve real world issues. In sports medicine, students will learn about the anatomy of the human body, injury prevention, and rehabilitation of an injury. Forensics will offer students the opportunity to utilize analytical science, biology, and anatomy to discover how crime scene investigations work. Finally, in stem cell research, different types of stem cells, modern research methods, and alternatives to stem cells will be investigated. We will also explore new cutting edge sciences as they arise in current events.

Pre-Requisites: Biology

Delivery Mode
VC

Credit
VC: 1.0

NCAA Approved

Introduction to Engineering

Introduction to Engineering, a textbook free course, provides an overview of the field of engineering and the primary processes and procedures used by engineers. Engineers play a central role in developing products and systems that improve our everyday lives in areas such as transportation, computing, and medicine. In this course, students will explore each step of the product development cycle, from modeling and prototyping through production. Students will discover the interdependencies between the fields of engineering, science, and technology, and will explore engineering careers that suit their personal interests and abilities. Finally, students will examine the ethical and societal effects of engineering, which play a key role in the development of all engineered products and systems. Introduction to Engineering is an upper level course recommended for 11th or 12th grade students.

Pre-Requisites: Algebra I; Geometry

Delivery Mode
BC (Fall Only)

Credit
BC: 0.5

Tips for being a successful PA Cyber high school student.

- Attend each virtual, blended, or asynchronous class every day.
- Share with your parent or guardian the work that you complete each day.
- Keep close contact with your teachers and Academic Advisor.
- Complete all required reading, assignments, and homework each day.
- Follow the proper pacing for each of your courses.
- Attend all Keystone testing as required.
- Get involved with PA Cyber clubs and other activities.



Social Studies

Four credits in Social Studies are required for graduation.

American Explorations

Students will explore four important parts of United States history in depth. Students will examine the Civil War, World War I, World War II, and the Civil Rights Movement. Each subject will be covered for a nine-week period. Students will be introduced to key events by reading original stories, biographies, classic literature, and primary source documents. The class will use letters, speeches, interviews, song lyrics, photographs, cartoons, and essays by historians to make these time periods come alive. Students will participate in class discussions, design projects, and give class presentations. **Pre-Requisites:** None

Delivery Mode
VC

Credit
VC: 1.0

NCAA Approved

American History

American History is designed to help students understand and interpret the history of the United States, and understand the vast scope of complex issues throughout American history. Students will learn about prominent national events as well as historical milestones around the world. The course begins by examining the rise of modern America due to the effects of industrialization. Some of the topics that will be examined are the Progressive Era, American Imperialism, World War I, and The Great Depression. The second half of the year is a study of American History since World War II, and moves through time to the Cold War, the Civil Rights Movement, the Vietnam War, the Post-Vietnam Era, ending with the present. **Pre-Requisites:** None

Delivery Mode
VC; BC

Credit
VC: 1.0
BC: 1.0

NCAA Approved

AP United States History

Advanced Placement United States history will provide students with a complete and thorough understanding of the 'full circle' nature of American History. By design, American History is inherently a story of cause and effect. The course will be intense, demanding, and ultimately satisfying but there will be a heavy reading and writing expectation. Students are expected to be involved in the learning process and committed to putting forth their best effort. This entails reading and writing on a daily basis, in class, as well as independently. Students should expect between 45 minutes to an hour of homework every night. American History will be approached in a multifaceted method. Students will explore concepts in an analytical manner and emphasis will be placed on achieving a 'true transfer of knowledge'. There will be extensive use of technology throughout the class when it assists in the development and understanding of the concepts of American History. A student may place out of an introductory college history course based upon completion of the course and a satisfactory score on the AP United States History exam. This is a College Board-approved Advanced Placement course. **Pre-Requisites:** Letter grade of B or higher in all previous social studies courses

Delivery Mode
VC

Credit
VC: 1.0

NCAA Approved

African American History

African American History introduces students to the study of African American life, culture, and history. This course covers the journey to the Americas during the triangle trade, plantation life, and emancipation. It also discusses African American involvement in major wars, the civil rights movement, major societal contributions, and life in modern society. Students will take a close look at significant events and challenges faced by African Americans in the United States, such as the Nat Turner Rebellion, emancipation, Jim Crow laws, civil rights amendments to the Constitution, the Harlem Renaissance, the growth of civil rights organizations, and the election of Barack Obama to the Presidency. This textbook free course describes the influential role of African Americans in U.S. History. **This course utilizes the Lincoln Learning Solutions Empowered™ curriculum.** **Pre-Requisites:** None

Delivery Mode
BC

Credit
BC: 0.5

NCAA Approved

Pennsylvania History

Pennsylvania History will broaden the student's view of the state of Pennsylvania. The textbook free course will uncover the different regions, water forms, resources, and inhabitants of Pennsylvania. It will also discuss how Pennsylvanians have many different cultures and religions. This course will take the student back to the days of the early settlers of Pennsylvania and will move through time to discuss contemporary Pennsylvanians, including their economics, values, religions, and government. **Pre-Requisites:** None

Delivery Mode
BC

Credit
BC: 0.5

NCAA Approved

1960s America

Have you ever wondered what life was like in the 1960s? This textbook free course allows students to experience what life was like during this exciting and monumental decade. 1960s America will cover the social, political, and cultural movements and changes that occurred during the decade. Some of the topics explored within this course include the transition from the 1950s Post-War boom to the 1960s Radical Movement, the Vietnam War, and civil rights. This course also focuses on many significant headlines of the 1960s, which include the assassinations of Robert Kennedy, President John F. Kennedy, and Dr. Martin Luther King, Jr., as well as the Space Race, music of the 1960s, and effects of pop culture. Through this course, students look at different historical events and determine how these events impacted American citizens during this decade and afterwards. This course delivers in-depth content on the 1960s and gives each student a realistic perspective of this decade. **This course utilizes the Lincoln Learning Solutions Empowered™ curriculum. Pre-Requisites:** None

Delivery Mode
BC
Credit
BC: 0.5
NCAA Approved

Civics

Civics introduces students to the foundation of the democratic government of the United States and investigates the basic principles of this system. The structure of the legislative, executive, and judicial branches of the U.S. government are explored, and students determine how these branches work together. Students will also look at the characteristics of state and local governments throughout the country to examine the organization and responsibilities of these branches. Students analyze their own roles within government by identifying the rights of the citizen. The course continues on to explore the citizen's role within society as a whole. A thorough investigation of the components of the American economy is conducted, including its foundations as well as how it interacts with other economies of the world. Finally, students will examine the United States in the context of world politics by studying foreign policy and the future of the U.S. in today's world. **Pre-Requisites:** None

Delivery Mode
VC; BC
Credit
VC: 1.0
BC: 1.0
NCAA Approved

Government

Government gives students a basic understanding of how the United States government works. The course introduces students to the American government by way of detailed discussions of the origins, functions, and various forms of government; the principles and foundations of democracy; the historical background of the U.S. government; and the rights and responsibilities afforded by the U.S. Constitution. Students review the three branches of the Federal Government. The various roles of Congress, which include the making of laws, Congress's powers, and its sessions and terms are examined. Students explore the nomination and election processes, presidential powers, and the federal bureaucracy. Students will also learn about the judicial branch of the government, with discussions on the role of the courts, the national court system, and the Supreme Court and its appointment process. The second half of the year introduces the United States legal system and the role of police, courts, and the corrections system. Rights and freedoms including freedom of religion, freedom of speech and press, freedom of assembly and petition, and various interpretations of those rights will be analyzed. Students will then move on to learn about the U.S. political system, political parties, and political processes at the federal, state, and local levels. They will compare the political and economic systems of capitalism, socialism, and communism, and will analyze the role of the United States in international relations. **Pre-Requisites:** None

Delivery Mode
BC
Credit
BC: 1.0
NCAA Approved

Economics

Basic economic theory and its impact on everyday life are the foundation of this course. Students will learn about basic economic features such as scarcity, opportunity cost, efficiency, and trade-offs, as well as the factors of production: land, labor, and capital. Students gain an understanding of the free market system as opposed to other economic systems. Considerable focus will be put on the laws of supply and demand. In addition, students will explore various types of market structures and the government's involvement in these structures. The second half of the year provides the learner with an opportunity to explore the world of money, banking, and finance; understand how economic performance is measured; examine the ways that the government obtains and spends resources; and analyze international trade and economic development. Economics is an upper level course suggested for grade 12 students. **Pre-Requisites:** None

Delivery Mode
VC; BC
Credit
VC: 1.0
BC: 1.0
NCAA Approved

Cultural Explorations

Cultural Explorations will examine important and culturally significant time periods in World History. Each topic will be covered in depth for a nine-week period. Students will study Ancient Greece, Ancient Rome, The Ancient Americas (Maya, Aztec, and Inca), and The Middle Ages. Students will be introduced to the time periods by reading original historical fiction. Biographies, classic literature, and primary source documents will be used to highlight important people and events. Students will participate in class discussions, design projects, and give class presentations. **Pre-Requisites:** None

Delivery Mode
VC

Credit
VC: 1.0

NCAA Approved

World Cultures

World Cultures explores the geography, history, and cultures of the world. During the course of the year, students will learn how the earliest civilizations developed in each region of the world and how these regions evolved up until the Age of Exploration and the Industrial Revolution. In each unit, students will study the major powers for each historical era. The course will begin with a discussion of the first river valley civilizations that developed in the Middle East, South Asia, East Asia, and North Africa and will focus on pre-history up to 200 B.C. The focus will then move to the Classical Era up to 700 A.D. and will be followed by the exploration of the major empires during the Middle Ages up to 1500 A.D. There will also be a study of the interaction between the different hemispheres up to 1800 A.D. As World Cultures progresses, students continue to examine the geography, history, and culture of the world beginning with the absolutist kings of the 1500s and ending with modern-day world culture. Europe's absolutist kings, revolutionary movements, and the Age of Enlightenment are discussed. Next, students will turn their attention to the Industrial Revolution and to the European empire building in Africa and Asia. The course will then move to an examination of a world at war and will cover the Great War, nationalist movements in Russia and Asia, and World War II in addition to the Cold War, Third World independence, and struggles for democracy. The course will end by exploring current global issues such as terrorism, technology, and the global economy. Upon completion of this course, students will have gained a well-rounded, informed understanding of the world around them. **Pre-Requisites:** None

Delivery Mode
BC

Credit
BC: 1.0

NCAA Approved

World Geography

World Geography introduces students to basic principles and tools of geography, which will be used to examine the world as a geographer. Students will explore the physical and human geographical aspects of the United States and Canada in order to analyze cultures based on their surroundings. From there, the geography of Latin America will be explored. This course will then take students on a journey across the Atlantic Ocean to survey the land and people of Europe. Russia and the Republics surrounding the country will be studied by detailing various geographical aspects of this land. The second half of the year surveys the physical and human geographic components of Africa. The focus then shifts to Southwest Asia and an exploration of its physical features, culture, resources, and current issues. World Geography concludes in Southeast Asia, Oceania, and Antarctica, where students will learn about the landscape and human impacts on these areas while noting contemporary problems facing these regions.

Pre-Requisites: None

Delivery Mode
BC

Credit
BC: 1.0

NCAA Approved

Ancient History

Ancient History explores political, cultural, and economic themes that occurred from the beginnings of known history in ancient civilizations throughout Africa, the Americas, Asia, and Europe to the 1500s. Other topics discussed in the framework of Ancient History will be war, art, science and technology, religion and philosophy, and daily life through both individual narratives and collective experiences. These themes and topics will be considered to develop knowledge about the past and to relate ancient history to the development of the world today. **Pre-Requisites:** None

Delivery Mode
VC

Credit
VC: 1.0

NCAA Approved

World History

World History covers the events, people, and places from the year 1500 A.D. to the contemporary world. Students will learn about world history by exploring its relevance; by studying living history; and by identifying the significance of a person, place, or event. The importance of understanding the role that geography plays in world history will also be studied. In this wide-ranging course, students will learn how the world and its inhabitants were shaped over time. Students will also study historical tools that will shape their thinking to foster an appreciation for the history they are living. History is only useful if we study the past to learn for the future. The second half of World History asks students to analyze the events, people, and places from the early 1900s to the modern day world. This course focuses on world events including World War I, the Great Depression and its effects on the world, and World War II. Post-World War II Asian successes and challenges are discussed in addition to Africa's independence and challenges. Students will also learn about nationalism, war and peace in the Middle East, modern day Latin and South America, and the end of the Cold War. **Pre-Requisites:** None

Delivery Mode
VC; BC
Credit
VC: 1.0
BC: 1.0
NCAA Approved

Psychology

Psychology, the science that reflects people's need to explain and control their behavior, will be explored in depth in this course, which includes extensive readings, various tests, research projects, and writing assignments. Topics will include physical, psychological, and personality development from birth to death, learning processes, and numerous – and often conflicting – theories on almost all subject areas. **Pre-Requisites:** None

Delivery Mode
VC (Fall Only); BC
Credit
VC: 0.5
BC: 0.5
NCAA Approved

Sociology

Sociology is an introduction to the scientific study of a rich variety of sociological topics. Students will focus on the processes and components of concepts such as the meaning, agents, and function of culture and social structures, as well as the dynamics of social inequality and the functions and characteristics of social institutions. Throughout this course, students will use and develop reading, writing, discussion, research, and study skills. Tests, sociological projects, and research papers will evaluate each student's performance. **Pre-Requisites:** None

Delivery Mode
VC (Spring Only); BC
Credit
VC: 0.5
BC: 0.5
NCAA Approved

Introduction to Law

Introduction to Law will offer students the opportunity to explore all aspects of the United States legal system, from its fundamental ideas to its guiding principles. The emphasis throughout the course is examining the reasons why a society and its members must adhere to the legal system while thinking critically and evaluating tenets of the law. **Pre-Requisites:** None

Delivery Mode
BC
Credit
BC: 0.5
NCAA Approved

Criminal and Consumer Law

Criminal and Consumer Law is designed to help students understand various laws that will touch their lives. The course covers the practical aspects of criminal and consumer laws, with an emphasis on individual rights. Students will gain important knowledge about the law, in general, and its role in protecting them as citizens and consumers. **Pre-Requisites:** Introduction to Law

Delivery Mode
BC
Credit
BC: 0.5
NCAA Approved

Fine Arts

Two credits in Fine Arts are required for graduation.

Arts Alive

Arts Alive is a textbook free course that exposes students to various art forms, such as visual arts, music, literary arts, dance, theatre, media arts, filmmaking, and the different media and processes of making art. The course's lessons and activities increase students' awareness and appreciation of art. A majority of the activities involve reading and writing responses to summarize or present students' thoughts about particular artists or forms of art. Examples of some of the projects or activities include: compare and contrast essays about artists and their artwork, designing an illuminated letter, creating a poem, and playing interactive games on art websites. Additional examples of course activities include: planning a thematic dance performance, preparing to capture an important event on video, and explaining the stages of creating pottery. **Pre-Requisites:** None

Delivery Mode
AC

Credit
AC: 1.0

Art History

Art History, a textbook free course, is an introductory art course that focuses on the art and architecture of the ancient Near East and Europe. The course begins with a brief overview of the fundamental methods of art; the meaning, purposes, and styles of art; the art elements and principles of design; and the various media used to create artwork. It then follows a chronological timeline. The timeline shows how art and world events have influenced each other from the prehistoric period to the early medieval era. There is a large focus on the art and architecture of Europe and North America. Particular emphasis centers on viewing works of art within their historical and cultural context so that students learn to understand how these key achievements relate to the past and present world. **Pre-Requisites:** None

Delivery Mode
VC

Credit
VC: 1.0

Exploring Cinema

Exploring Cinema, a textbook free course, introduces students to filmmaking and cinematic productions. The course explores the technology used to create a film and begins to build an aesthetic appreciation of films for the student. Students also are exposed to media art and the ethics of media creation to give a wider perspective on the different ways material is presented. **This course utilizes the Lincoln Learning Solutions Empowered™ curriculum.** **Pre-Requisites:** None

Delivery Mode
AC

Credit
AC: 0.5

Fashion Design

Fashion Design is an advanced level course for students interested in learning the intricate process of how the fashion system works. This is an in-depth study of the fashion business in sequential order from concept to consumer. The fashion business is a series of buying supplies, creating and developing a new product, and marketing the product. The fashion business includes all the processes involved with producing raw materials, apparel, and accessories, and the retail stores that sell fashion merchandise to the public. It is important for executives in the fashion industry to know how all of these processes interrelate. Students will learn that the decision making process is complex and not just about the latest designers, styles, or trends of an era. Particular emphasis will be on planning, manufacturing, and marketing processes throughout history. **Pre-Requisites:** None

Delivery Mode
AC

Credit
AC: 0.5

Graphic Design

Graphic Design is a textbook free course that provides students with a foundation in design basics and introduces students to the field of graphic design. The history of graphic design is explored, while students learn about famous graphic designers, see how the tools and technology used by designers have evolved, and discover how designers use the elements and principles of art and design to create successful pieces. The course introduces typography and demonstrates how to creatively use type. Students will also be shown how to work with different types of layouts, a grid system, and advanced design concepts, such as minimalism. The design process is investigated and utilized, which includes creativity, planning, visualizing, and constructing images through many different projects in which students create logos, business cards, letterheads, envelopes, mailers, flyers, posters, brochures, magazine layouts, and package designs. The course also covers concepts such as branding and

Delivery Mode
AC

Credit
AC: 0.5



advertising, while delving into the printing process, so that students can see how design projects are completed from start to finish. Finally, students will explore non-print design work, such as Web design and multimedia. Students will also look at various jobs in graphic design and explore the steps they can take, such as internships, networking, and creating a portfolio and résumé, to gain a successful career as a graphic designer. **Pre-Requisites:** None

Art and Visual Culture

In order to provide a comprehensive study of art, students in Art and Visual Culture analyze and interpret artwork created by others, examine the concepts of aesthetics and art criticism, and explore the practical application of art in a variety of careers. Art and Visual Culture, a textbook free course, spotlights drawing as a form of communication and introduces students to the elements of art and principles of design through hands-on activities. Students sharpen their observation skills using a variety of art media. Through practice and experimentation, students become adept at using basic techniques and processes to depict the world around them and express their thoughts and feelings. **This course utilizes the Lincoln Learning Solutions Empowered™ curriculum. Pre-Requisites:** None

Delivery Mode
AC
Credit
AC: 1.0

Theatre

Theatre will familiarize the student with the historical background of theatre, as well as the basic elements of acting. Learners will study stage lighting, sound, costume, and makeup. Students will learn to apply voice and gesture skills in pantomimed and improvised scenarios. The responsibilities of the producer and director of a theatre production will be discussed, in addition to the duties of the equipment and technical crews. The diversity of this course provides opportunities for the involvement of all students, regardless of experience and abilities. Theatre promotes unity, inquiry, and critical and constructive thought, as well as skills of comparison, problem-solving, interpretation, judgment, and research. Students are encouraged to investigate old and new ideas by exploring, discovering, creating, and clarifying their perceptions and knowledge. This course covers the art of character analysis and a variety of acting techniques, as well as the technical elements of theatre, such as sets, costumes, makeup, and special effects. **Pre-Requisites:** None

Delivery Mode
AC
Credit
AC: 1.0

Music Appreciation

Music Appreciation introduces students to the theory and history of music. The course begins by studying musical form, texture, rhythm, and expression. Students will then explore musical genres from classic to contemporary. Students will learn to identify instruments, musical pieces, musical periods, and musical styles. They will examine popular forms of American and world music, including folk, jazz, blues, modern, and forms of rock and roll. Students will grow in their understanding of music as they examine stylistic eras, important composers, and global musical perspectives. **Pre-Requisites:** None

Delivery Mode
VC
Credit
VC: 1.0

The History and Development of Jazz

Jazz is a unique American art form considered by many to be among our nation's most important cultural contributions to the world. This course examines the development of jazz, from the sounds of Dixieland, through bebop and modern jazz, to today's popular fusions of traditional jazz with rock, hip-hop, and other emerging styles. Students will develop a full understanding of the trends, artists, and artistry that influenced the evolution of jazz, and gain a deeper appreciation of jazz's unique and prominent position in the history of music. **Pre-Requisites:** None

Delivery Mode
AC
Credit
AC: 0.5

The Study of Contemporary Music

The Study of Contemporary Music introduces and explores the roots of contemporary American music. This course will focus on the social, technological, and artistic trends that helped create and shape music of the 1920s through present time. Learners will explore various genres and periods of music, including the early development of rock and roll in the 1950s, the evolution of popular music, the British invasion of the 1960s, and the many "mutations" of rock music in the 1970s. The second half of the course continues to explore the roots of contemporary American music. After completing this course, students will have gained a deeper understanding and appreciation for various forms of contemporary music, ranging from rock to jazz to country. Students will explore the history of each form and the role of music in the modern world. **Pre-Requisites:** None

Delivery Mode
VC; AC
Credit
VC: 1.0
AC: 1.0

World Languages

3.5 credits in electives are required for graduation.

World Languages can count toward elective and/or fine arts credit.

Spanish I

Spanish I provides the student with a strong foundation of the Spanish language and its cultural influences. Lessons incorporate pronunciation, basic grammar, and practical vocabulary components to give the student a fundamental understanding of written and conversational Spanish. Lesson topics include Spanish pronunciation sounds, greetings and introductions, questions, and present tense verb conjugation. Students will also learn how to describe people, school, and pastime activities, in addition to likes and dislikes. In the second half of the course, students will learn to describe their families and express needs and desires when shopping or eating in a restaurant. Students will also learn irregular, present tense verb forms and common preterite tense verb forms. **Pre-Requisites:** None

Delivery Mode

VC; AC

Credit

VC: 1.0

AC: 1.0

NCAA Approved

Spanish II

Spanish II introduces complex grammatical components, such as reflexive verbs and the present progressive, preterite and imperfect tenses, along with idiomatic expressions unique to the Spanish language. Lessons will provide themed sets of nouns, verbs, and adjectives that will be used to compose refined dialogue relating to everyday scenarios. Building on an ever-growing lexicon, the student will incorporate concepts to form questions, express preferences and possession, discuss the past, and describe and compare people, places, and locations. As Spanish II progresses, the imperative and subjunctive forms will be practiced, and the student will incorporate concepts to tell stories; describe people, places, and locations; form commands and give suggestions; ask questions and give directions; and express preferences, intentions, and opinions. **Pre-Requisites:** Spanish I

Delivery Mode

VC; AC

Credit

VC: 1.0

AC: 1.0

NCAA Approved

Spanish III

Spanish III allows students to acquire a more extensive topical vocabulary in the continued study of the language. Students will gain a higher understanding of complex grammatical structures, verb applications, and idiomatic expressions to increase reading and listening comprehension, as well as fluency in speaking and writing. Students will describe, analyze, summarize, and explain ideas verbally and in writing in the target language. Students will read excerpts from narratives, informational essays, Internet sites, and newspaper articles. They will then answer questions, use the dictionary, and analyze and summarize their readings. Students will practice and develop their reading comprehension and writing skills.

Pre-Requisites: Spanish I; Spanish II

Delivery Mode

VC; AC

Credit

VC: 1.0

AC: 1.0

NCAA Approved

Spanish IV

This course will refine students' speaking, listening and writing skills, as well as extend their understanding of the Hispanic culture. Students will interact with various resources to continue to build knowledge and apply advanced grammar, syntax, and precise vocabulary to express themselves more accurately in a variety of contexts. Cross-cultural understanding is fostered and real-life applications are emphasized.

Pre-Requisites: Spanish I; Spanish II; Spanish III

Delivery Mode

VC

Credit

VC: 1.0

NCAA Approved

AP Spanish Language and Culture

AP Spanish Language and Culture will develop students' listening, reading, speaking, and writing skills, as well as their understanding of Hispanic culture. Students will read and analyze authentic texts, including narratives, novel excerpts, modern articles, Internet resources, and documents concerning current events. Students will also listen to and respond to authentic recordings. Students will practice and apply advanced grammar and syntax, as well as precise vocabulary, to express themselves more accurately in a variety of contexts. This course is a College Board-approved Advanced Placement course.

Pre-Requisites: Spanish I; Spanish II; Spanish III

Delivery Mode

AC

Credit

AC: 1.0

NCAA Approved

French I

French I is an introductory course designed for learners who have little or no previous knowledge of the French language and French culture. As they progress through the course, learners will begin to acquire tools necessary for communication in the French language. They will interact with others, and also have the opportunity to present their ideas and interpret texts in French, using recordings, literature, and numerous other resources. This course will prime students' fluency in various communications with reasonable accuracy, such as the ability to greet others and exchange basic information about themselves, school, family, and preferences. They will also be able to describe people, things, and places, as well as talk about and write about daily activities using the present tense. Learners will gain a better understanding of other cultures by exploring the global Francophone community, and they will compare these different cultures to each other's and to their own. In addition to using the present tense to describe one's preferences and daily activities, learners will be able to present and exchange information using the *passé composé* and *imparfait* regarding topics such as travel and occupations. **Pre-Requisites:** None

Delivery Mode
VC; AC

Credit
VC: 1.0
AC: 1.0

NCAA Approved

French II

In French II, students will have the opportunity to review some of the structures from French I, but they will also build their knowledge of the French language and culture. Some of the structures that learners will review include the present tense of regular and irregular verbs, the *passé composé* with *avoir* and *être*, and adjective agreement and placement. Students will add to their knowledge foundation by employing direct and indirect object pronouns, reflexive verbs in the present tense, *passé composé*, and imperative mood. They will also learn vocabulary to talk about daily routines, celebrations, past events, and school. Additionally, students will explore the French cities of Paris and Rennes as well as the city of Quebec in Canada. They will also discover meals, sports, and crafts unique to the Francophone world. As French II progresses, students will use new vocabulary to discuss life in the country, outdoor activities, health, vacation, and books and films. They will employ the future tense to talk about what will happen, and they will use the conditional and subjunctive moods to express hypothetical situations, necessity, and emotions. Students will be able to compare nouns using the comparative and the superlative. They will also explore the different cultural and culinary attractions of the Senegalese city of Dakar and the southern French city of Nice. **Pre-Requisites:** French I

Delivery Mode
VC; AC

Credit
VC: 1.0
AC: 1.0

NCAA Approved

French III

In French III, students will continue to explore the Francophone world, making stops in France, French-speaking Africa, and Francophone regions in the Americas. They will use new vocabulary to talk about school, communication, professions, and to discuss fairy tales and fables. Students will use new vocabulary to discuss outdoor activities, media, environment, travel, government, and the arts. Students will review the present tense, the past tenses (*passé composé* and *imparfait*), reflexive verbs, and the subjunctive mood as well as use the future perfect, the simple past, and the past conditional. As the course progresses, students will apply the subjunctive mood in a variety of new contexts, as well as use the past subjunctive and the passive voice. Students will be exposed to a variety of literary texts that utilize the structures and vocabulary that they will be learning. Students will also have opportunities to apply these structures to various written and recorded projects throughout the course. They will also review structures studied in previous courses, such as the future tense, the present participle, and the past perfect. **Pre-Requisites:** French I; French II

Delivery Mode
VC; AC

Credit
VC: 1.0
AC: 1.0

NCAA Approved

French IV

This intermediate-advanced course is geared toward developing a higher level of fluency in French. Students will continue to explore the Francophone world, making stops in France, and French-speaking and Francophone regions in Europe and in the Americas. They will use new vocabulary to talk about the news, natural phenomena, environmental issues, politics, government services, fine arts and traveling. Students will review the present, past, and future tenses along with the subjunctive mood. The student will also be able to use prepositions with infinitives, the passive voice, the comparative and superlative as well as the past subjunctive. French literature will play an important role in this course. Students will be exposed to a variety of literary texts that utilize the structures and vocabulary that they will be learning. An opportunity to apply these structures to various written and recorded projects will be applied throughout the course. Vocabulary, grammar, and culture in context through authentic literary and journalistic texts, will be examined over the course of the year. **Pre-Requisites:** French I; French II; French III

Delivery Mode
VC

Credit
VC: 1.0

NCAA Approved

AP French Language and Culture

AP French Language and Culture is an accelerated course designed for students who already possess comprehensive knowledge of the French language, as the course's instruction is entirely in French. In this course, students explore issues within a Francophone framework. Students consider identity, family, community, and contemporary life in a Francophone context through literary texts, newspaper and magazine readings, and audiovisual resources. Students reflect and elaborate on these concepts while making comparisons to their culture of origin through written and oral activities. Grammar reviews and introduction to new vocabulary primes the learner for successful completion of communicative tasks. This course is a College Board-approved Advanced Placement course. **Pre-Requisites:** French I; French II; French III

Delivery Mode
AC
Credit
AC: 1.0
NCAA Approved

German I

In German I, the student is given a comprehensive introduction to the basic and fundamental skills necessary for expressing common ideas in the German language. The course will begin by introducing the student to the basics of introductory conversation and will build in theme and scope to address topics including daily activities, travel, needs, desires, and preferences in increasingly complex and typical situations. This provides a realistic context for the skills acquired by the student. The course also provides a considerably thorough study of grammatical skills, ranging from the most basic sentences to engaging and creative structures dealing with more interesting situations. Along the way, the student will acquire a familiarity with many of the cultural factors that helped to shape and are shaped by the German language. As the course progresses, students will focus their study on the verb and gain a better understanding of its principal parts, versatility, and variety of tenses across the language. The student will be able to fluidly use verbs across many tenses discerningly upon completion of this course. The case system will also be extensively examined and implemented in an increasingly natural manner with nouns, verbs, and objects. A new case will be introduced to allow for more versatility when talking about possession, time, and dependence. Adjectives will be closely studied as well, with special attention paid to declension across all four cases in a variety of situations. Finally, more natural and practical vocabulary will be studied in this part of the course. There is a significant amount of vocabulary introduced throughout the course, which provides a rich lexicon for communicating a large number of ideas. Throughout the course, a great deal of attention is paid to all of the skills necessary for a full and practical mastery of the language, such as reading, writing, listening, and speaking. Despite its advanced level, this will allow the student to communicate a substantial range of topics, not only in contemporary Germany but also in Europe and in the rest of an interconnected world. Virtual Classroom German I is textbook free. **Pre-Requisites:** None

Delivery Mode
VC; AC
Credit
VC: 1.0
AC: 1.0
NCAA Approved

German II

In German II, the student will receive a comprehensive introduction to nouns and verbs, and previously learned concepts will be reviewed. The case system will also be extensively examined. A study of the verb will be the main focus in this part of the course. Lessons will concentrate on different types of verbs and their conjugations in different grammatical tenses such as present, future, past simple, and present perfect. One of the most challenging aspects of German grammar — verbs with accusative, dative, and genitive prepositions — will be practiced thoroughly. A large amount of new vocabulary and idioms dealing with sports, health, travel, jobs, and the workday will be acquired and practiced through a close study of situational dialogues in every lesson. The student will become familiar with many cultural and social aspects of German life. In the second half of the course, adjectives will be discussed with special focus on their use. All types of pronouns will be extensively examined, with special attention paid to problematic areas. This course will further elaborate upon the use of prepositions and conjunctions. Finally, the course will provide a deep understanding of subordinating clauses, one of the most challenging concepts in German grammar. A large amount of new vocabulary and idioms dealing with traveling, feelings, and German tradition will be acquired and practiced through a close study of situational dialogues in every lesson. Virtual Classroom German II is textbook free. **Pre-Requisites:** German I

Delivery Mode
VC; AC
Credit
VC: 1.0
AC: 1.0
NCAA Approved

German III

The purpose of this course is to enable students to enhance proficiency in German through a linguistic, communicative, and cultural approach to language learning. There is continued emphasis on the development of listening, speaking, reading, and writing skills. Experiences with German literature are broadened. Cross-cultural understanding is fostered and real-life applications are emphasized throughout the course. German III is a textbook free course. **Pre-Requisites:** German I; German II

Delivery Mode
VC
Credit
VC: 1.0
NCAA Approved

German IV

The purpose of this intermediate-level course is to hone proficiency in German through a linguistic, communicative, and cultural approach to language learning. There is continued emphasis on the development of listening, speaking, reading, and writing skills. Experiences with German literature are broadened and several full-length German-language films will be screened and discussed. Cross-cultural understanding is fostered and real-life applications are emphasized throughout the course. German IV is a textbook free course. **Pre-Requisites:** German I; German II; German III

Delivery Mode
VC

Credit
VC: 1.0

NCAA Approved

Mandarin Chinese

Mandarin Chinese is an introductory course to modern Standard Chinese, which includes the spoken language Mandarin and the written language of simplified characters. In addition to learning about Chinese culture, students learn the basics of Chinese pronunciation through a beginner's vocabulary of Chinese characters using scenario-based examples. In this textbook free course, students get a glimpse of Chinese tradition and society through cultural tips. As the course progresses, students will explore rhetoric, reading and writing, personal applications, and phonetics. Students have the opportunity to learn about Chinese traditions, sports, employment, and shopping. Other topics include places in China, cultural comparisons, and cultural influence. **This course utilizes the Lincoln Learning Solutions Empowered™ curriculum.** **Pre-Requisites:** None

Delivery Mode
AC

Credit
AC: 1.0

Mandarin Chinese II

Mandarin Chinese II is an intermediate-level course in which learners will continue to develop communication skills through listening, reading, speaking, and writing in the target language. The course presents modern Standard Chinese, Mandarin, as the spoken language and simplified characters as the written language. Students will recognize and apply vocabulary in Pinyin and Chinese characters in the context of common scenarios. Students will practice hand-writing Chinese characters in complete sentences. Students will continue learning about Chinese tradition, language, and society to become more familiar with Chinese language and culture. In this textbook free course, students will learn about careers and work, nature, environment, travel, activities, and movies. **This course utilizes the Lincoln Learning Solutions Empowered™ curriculum.** **Pre-Requisites:** Mandarin Chinese I

Delivery Mode
AC

Credit
AC: 1.0

Conversational Italian

This textbook free course includes basic pronunciation, essential grammar and practical vocabulary, a brief introduction to Italian culture and history, and a detailed study of Italy's geography with the help of maps and pictures of the most important cities, monuments, and landmarks. This course is also designed to enrich the vocabulary of students and refine pronunciation by means of dialogues in culturally appropriate contexts and specific situations drawn from daily life. Students will learn to conjugate some fundamental verbs and to pair them with their constantly increasing vocabulary. Immediate communicative practice is provided by combining elements of grammar with conversational opportunities and cultural information. Speaking and listening skills are developed with authentic role-play dialogues in meaningful contexts. **Pre-Requisites:** None

Delivery Mode
VC

Credit
VC: 1.0

NCAA Approved

Advanced Conversational Italian

Students will continue to improve their listening and conversational skills through structured dialogues and role-play situations based on daily life contexts. Short stories will be used to enrich vocabulary, strengthen grammar structures, and learn new verbs. Dialogues and readings covering geographical facts, tourism, and travel around Italy will provide a useful, ready-to-use vocabulary for a great number of typical situations. Additionally, Italian art, history, culture, traditions, food, and other authentic materials will be used at various levels to provide contexts for practical listening and conversational practice. Articles and readings will help build a diversified vocabulary and enhance the student's speaking abilities. Advanced Conversational Italian is a textbook free course. **Pre-Requisites:** Conversational Italian

Delivery Mode
VC

Credit
VC: 1.0

NCAA Approved



Health & Physical Education

One credit in Physical Education and 0.5 credit in Health are required for graduation.

Health

From healthy lifestyles, diets, and exercise to responsibilities within individual families and larger communities, education within the discipline of health is pertinent for all. In Health, students will discover how to make the best decisions when attempting to improve their overall health. Each unit will cover topics that promote a safe, healthy, and active lifestyle. Some subjects that will be discussed throughout the course include the development of life skills; the basics of healthy, positive relationships; the necessity for stable mental health; stress management techniques; nutritional guidelines; and the value of exercise. Students will find this course to be both enjoyable and beneficial because it encompasses important topics that are applicable to their daily lives. Health utilizes an online textbook only. **Pre-Requisites:** None

Delivery Mode
AC
Credit
AC: 0.5

Personal Fitness

Personal Fitness teaches students to understand their lifestyles. It instructs students in methods to control their health through nutrition, exercise, and stress management. Students will discover that physical fitness means feeling good and looking good. This course will explore a variety of topics, such as stress, weight control, and nutrition. A cumulative project will allow students to design their own personal fitness programs. Physical activity is required to complete this course. **Pre-Requisites:** None

Delivery Mode
AC
Credit
AC: 0.5

Physical Education 9-12

Pennsylvania Public School Law requires all students to complete an annual course in physical education. In compliance with the law, the school requires students in grades 9-12 to complete 72 hours of organized, supervised physical activity each school year. Students will receive a physical education kit, which includes a workbook and items to complete different activities. Students are also required to record their physical education hours in the PA Cyber Physical Education Log. **Pre-Requisites:** None

Delivery Mode
AC
Credit
AC: 0.25

Road to Wellness

With increased public awareness concerning the importance of maintaining good health, there is no time like the present to learn about wellness. This textbook free course encompasses a variety of topics with a focus on nutrition and physical fitness. Subjects covered include basic nutrition principles, the digestive system, practicing nutrition, new dietary guidelines, label reading, and food safety. Other areas included are the foundation of physical fitness, exercise guidelines, and sports nutrition. This is an exciting and self-motivating course that will inspire students to take the road to wellness. **Pre-Requisites:** None

Delivery Mode
AC
Credit
AC: 1.0

Business Electives

3.5 credits in Electives are required for graduation. Business, Multimedia, Technology, and General Electives can count toward these credits.

Introduction to Business

In this textbook free course, students will learn their roles as wage earners, consumers, and citizens as they explore the wide, exciting world of business. Course topics range from the extensive use of credit to the role of government in the United States economy. Students will be introduced to insurance, investments, communication, transportation, labor, world trade, and other issues vital to succeeding in today's economy. Tips on career planning and job seeking promise to be especially helpful. **Pre-Requisites:** None

Delivery Mode
VC (Fall Only)
Credit
VC: 0.5

Money Management

Money Management, a textbook free course, will offer guidance in responsible money management skills. Topics covered in this course include various methods and approaches to saving and investing money for retirement, developing a sound budget, and eliminating debt. Students will also learn about several types of insurance, career planning, and the ins-and-outs of real estate and mortgages. This course is intended to provide a sound foundation for a lifetime of wise financial decision making. **Pre-Requisites:** None

Delivery Mode
VC (Spring Only)
Credit
VC: 0.5

Marketing

In this textbook free course, students discover the various ways marketing, and consequently, advertising impact their lives. Marketing is geared toward introducing students to the study and implementation of market analysis, which focuses on the identification and fulfillment of customer needs. This course provides a solid foundation for students contemplating careers in marketing, advertising, or other business-related and commercial fields. **This course utilizes the Lincoln Learning Solutions Empowered™ curriculum. Pre-Requisites:** None

Delivery Mode
AC

Credit
AC: 0.5

Advertising

Throughout Advertising, students discover the various ways that advertising touches their lives. Students learn to identify what customers need and want so that various companies are able to advertise and sell a variety of products and services. Students learn to identify customers' desires and discover what is needed to create, advertise, and sell products to fit these needs. This textbook free course guides students to develop the skills they need as consumers and advertisers. Some of the course topics include building client relationships, advertising strategies, types of media, purchasing media, and creating a complete advertising plan. Advertising provides a solid foundation for those students contemplating careers in marketing, advertising, or other business-related fields. **This course utilizes the Lincoln Learning Solutions Empowered™ curriculum. Pre-Requisites:** None

Delivery Mode
AC

Credit
AC: 0.5

Entrepreneurship

Students enrolled in this course will learn about the fundamentals of planning and operating a business. Students will identify the personal attributes needed to be a successful entrepreneur and will have the opportunity to research various business models. The planning, organizing, directing, and controlling functions of operating a business will also be studied. Students will understand the responsibilities and risks involved in being in charge of an organization. Students will also use their creativity to create and develop a hypothetical business plan using the fundamental information they learned throughout the course. **Pre-Requisites:** None

Delivery Mode
VC (Spring Only)

Credit
VC: 0.5



Multimedia & Technology Electives

Microsoft Office Basics

Microsoft Office Basics is a textbook free course that will provide students with the skills necessary to operate Microsoft Word and PowerPoint. Students will learn how to use fundamental application features to complete personal, educational, and future job-related tasks. While learning Word, students will create and format business documents, such as letters and reports. They will learn to employ a variety of editing tools, such as cut and paste, and formatting styles, such as tabs, paragraph indentations, headers and footers, font styles and colors, and bullet points. Saving and retrieving documents, as well as using the spelling and grammar checks and inserting columns and tables, will be stressed throughout the course. While learning PowerPoint, students will create slides and presentations using the normal view, the sorter view, and the outline pane. Students also will explore formatting and proofing text, print options, inserting and manipulating objects, creating custom animations, and timing and rehearsal for presentations.

Pre-Requisites: None

Delivery Mode
AC

Credit
AC: 0.5

Introduction to Computer Science

Introduction to Computer Science is a starting point for any student interested in computer related skills and careers. This course will introduce students to an overview of computers, operating systems, networks, cyber security, and the Internet. Students will also have the opportunity to explore careers in computer related fields and how computers affect everyday life. **Pre-Requisites:** None

Delivery Mode
VC

Credit
VC: 1.0

Python Programming

Learn the Python programming language and develop your problem solving skills! This course covers the fundamentals of programming and algorithmic thinking, including topics such as variables, loops, conditionals, methods, and functions. Students build numerous projects throughout the year, including text-based games and drawings made with code. Coding can be a fun and rewarding experience that helps students discover if computer programming is the career path for them. **Pre-Requisites:** None

Delivery Mode
VC

Credit
VC: 1.0

Web Design

Web Design allows students to learn how websites are designed and created, from planning to publishing. Course content will include basic web programming languages, such as HTML and CSS, and web file management. **Pre-Requisites:** None

Delivery Mode
VC

Credit
VC: 1.0

General Electives

Career Explorations

Students enrolled Career Explorations will investigate careers that match their strengths, interests, abilities, and values. Students will learn how to prepare for specific jobs and discover what additional training or preparation is needed for a future career path. They will acquire job-seeking skills such as resume-writing, interviewing, time management, and portfolio development. Learners in this course will develop effective communication skills and will generate an action plan for successful school to work transition. This course is designed to give students the tools they need to develop better workplace skills, handle career issues, money management, and balancing work and personal life. **Pre-Requisites:** None

Delivery Mode
AC

Credit
AC: 0.5

College & Career Explorations

This course will familiarize students with the many options available to them after high school. Upon completion of this course, students will have acquired knowledge on planning for higher education, career planning, and managing finances. Specific topics in planning for higher education include applying for scholarships, loans, and grants; affording college; understanding the importance of the PSAT, SAT, and ACT exams, and learning about college fairs and college visits. While career planning, students will write a cover letter and resume, learn how to apply for a job, discuss tips for job interviews, the importance of job shadowing, and how to network with other professionals. Finally, students will also learn how to manage their own finances, including understanding savings and checking accounts, budgeting, taxes, and understanding loans. **Pre-Requisites:** One high school English course; Algebra I

Delivery Mode
VC (Fall Only)

Credit
VC: 0.5

Family and Consumer Science

Family and Consumer Sciences, a textbook free course, is designed to provide students with the basic information and skills needed to function effectively within the family and within a changing, complex society. Emphasis is given to the development of competencies related to family, career, and community leadership in America. This course will also include discussions pertaining to family and individual health, relationships, arrangement of personal living space, wardrobe planning and selection, and garment care and construction. Students will learn about child care while focusing on how to select toys and age-appropriate play activities for children; health and safety procedures; nutrition and food selection; and meal planning, preparation, and service. The section on home management will discuss money management; the use of credit and banking services; consumer education; computer use at home, in school, and in the workplace; and career skills. Upon completion of this course, students will have developed basic life skills that promote a positive influence on the quality of life. **Pre-Requisites:** None

Delivery Mode
AC
Credit
AC: 0.5

Life Skills

As students grow and become adult citizens, they are expected to understand basic life skills to live independent and successful lives. Life Skills, a textbook free course, is designed to provide students with the information that they need as they begin the adulthood phase of their lives. From personal finance to nutrition to personal development, students have the opportunity to learn useful skills, helping them to become responsible and proactive young adults. **This course utilizes the Lincoln Learning Solutions Empowered™ curriculum. Pre-Requisites:** None

Delivery Mode
AC
Credit
AC: 0.5

Media Writing

For students who are interested in majoring in broadcast journalism, communications, or any other form of media in college, Media Writing is the ideal course. Media Writing is a textbook free course wherein students explore the basics of media writing and reporting. Students are exposed to numerous styles of writing, including social media reviewing, analysis, public service announcements, and writing for publication. In addition, students become familiar with researching and locating sources that are reliable and valid. In addition, students will explore persuasive media and media rhetoric. They will also participate in the review of movies, social media, news stories, and magazine articles. **This course utilizes the Lincoln Learning Solutions Empowered™ curriculum. Pre-Requisites:** None

Delivery Mode
AC
Credit
AC: 0.5

Pennsylvania Driver Education

This course helps Pennsylvania students develop a positive, mature, and knowledgeable approach toward driving. The course does not offer actual, behind-the-wheel instruction; however, it provides many outstanding tips on driving strategies and Pennsylvania traffic laws. Students will develop the thinking skills crucial to the development of safe driving. This course also qualifies for the 30 hours of classroom participation required by the Pennsylvania Department of Motor Vehicles before a learner's permit can be issued. Upon successful completion of this course, students can request a certificate of completion from their instructor that may qualify them for discounted automobile insurance rates. **Pre-Requisites:** None

Delivery Mode
AC
Credit
AC: 0.25

PSAT College Readiness

PSAT College Readiness is designed to provide students the skills and knowledge required to achieve proficiency on the PSAT exam. This course requires 5 hours of online instruction provided by a TutaPoint PSAT Prep instructor. Upon completion of the live-online instruction, full access to TutaPoint's EdgePrep LIVE coaching curriculum will be available to the student for an additional 90-days. Completion of both the live instruction and self-paced assignments are a requirement for receiving credit for the course. **Pre-Requisites:** None

Credit
0.5



Keystone Courses

Keystone Algebra I

Keystone Algebra I is designed to review math concepts that are covered on the Algebra I Keystone Exam. The Keystone Exams will assess students using both multiple-choice and constructed response questions. The content in the course was created to align with the Assessment Anchors as defined by the Eligible Content. Throughout this elective course, an emphasis is placed on test preparation and preparing students to think critically. Through the use of daily lessons, students will have the chance to learn, understand, apply, and practice skills necessary for grasping content that will be assessed on the exam. This course will be a required part of the remediation process for students who were unable to score proficient or higher on their first attempt of the Algebra I Keystone Exam.

Pre-Requisites: Algebra I

Delivery Mode
BC

Credit
BC: 0.25

Keystone Biology

Keystone Biology is designed to review science concepts that are covered on the Biology Keystone Exam. The Keystone Exams will assess students using both multiple-choice and constructed response questions. The content in the course was created to align with the Assessment Anchors as defined by the Eligible Content. Throughout this elective course, an emphasis is placed on test preparation and preparing students to think critically. Through the use of daily lessons, students will have the chance to learn, understand, apply, and practice skills necessary for grasping content that will be assessed on the exam. This course will be a required part of the remediation process for students who were unable to score proficient or higher on their first attempt of the Biology Keystone Exam. **Pre-Requisites:** Biology

Delivery Mode
BC

Credit
BC: 0.25

Keystone English Literature

Keystone English Literature is designed to review language arts concepts that are covered on the English Literature Keystone Exam. The Keystone Exams will assess students using both multiple-choice and constructed response questions. The content in the course was created to align with the Assessment Anchors as defined by the Eligible Content. Throughout this elective course, an emphasis is placed on test preparation and preparing students to think critically. Through the use of daily lessons, students will have the chance to learn, understand, apply, and practice skills necessary for grasping content that will be assessed on the exam. This course will be a required part of the remediation process for students who were unable to score proficient or higher on their first attempt of the English Literature Keystone Exam.

Pre-Requisites: English 9; English 10

Delivery Mode
BC

Credit
BC: 0.25

Notes

A series of horizontal dotted lines spanning the width of the page, intended for writing notes.



For More
Information

PA Cyber

652 Midland Avenue

Midland PA, 15059

Phone: 888.722.9237

Fax: 724.643.2845

PACyber.org



Main Office
652 Midland Avenue
Midland, PA 15059

Nonprofit Org.
US POSTAGE PAID
Beaver PA
Permit N929