

TULPEHOCKEN AREA HIGH SCHOOL



2026-2027
COURSE CATALOG

Expect - Believe - Achieve

Tulpehocken Area High School Families,

We are excited to present the 2026-2027 Tulpehocken Area High School Course Catalog. Within this catalog, you will find detailed information about graduation requirements, career-aligned pathways, course descriptions, and additional resources designed to support your student's educational journey. The catalog emphasizes career pathways, reflecting our commitment to equipping students with the skills and knowledge needed for post-secondary success.

High School Vision Statement:

"Tulpehocken Area High School will provide all students with robust career-aligned pathways through intentionally designed learning experiences that focus on lifelong transferable skills."

Over the next few months, we will begin the scheduling process for the upcoming school year. During this time, counselors will meet with students to explain the process and provide course selection sheets to bring home. We encourage you to use this catalog as a valuable tool to guide your student in making informed scheduling decisions.

At Tulpehocken Area High School, we embrace the following principles:

- **We EXPECT** to leverage our staff's expertise to create real-world, pathway-driven courses.
- **We BELIEVE** that offering students a challenging, rewarding, and personalized schedule fosters pathways to success.
- **We ACHIEVE** exceptional outcomes by collaborating with families to help students reach their goals.

If you have any questions during the scheduling process, please do not hesitate to reach out. Together, we can ensure your student's success.

Respectfully,

Christopher Hamrick
Principal
Tulpehocken Area High School



Little Swatara Preschool
31 Rehrersburg Road
PO Box 437
Bethel, PA 19507
717-933-4500

As a member of the Tulpehocken Pathway Advisory Council and a Director of an Early Childhood Learning program within the Tulpehocken community, I support the educational curriculum and course selections as outlined in the student handbook for the Human Services pathway. I believe the Tulpehocken Area School District has crafted a curriculum that will prepare our students for their academic pursuits, career readiness, as well as responsible citizenship. The courses Tulpehocken offers have real world applicability and foster creativity, a love of learning, and critical thinking skills. I applaud TASD for recognizing the importance of continuous evaluation and improvement so that our children are offered a curriculum that remains relevant and effective and will equip them with skills and knowledge to ensure their success post-graduation. Well done Tulpehocken!

Thank you,
Sara Bryant
Director of Little Swatara Preschool
Proud Parent of two Tulpehocken Trojans

KAUFFMAN'S BBQ RESTAURANT

254 Gravel Pit Road
Bethel, PA 19507
717-933-1672 Office
717-933-8415 Restaurant

December 12, 2025

To whom it may concern,

This letter is to confirm our support of the 2025-2026 Tulpehocken Area High School Course Catalog. We support the career-aligned pathways and feel it will prepare the students for post-secondary training. In our line of work, we fall under the Human Services pathway. The electives offered will help anyone getting into this business, especially: Accounting 1,2, Business Law, Introduction to Business, Baking and Pastry Essentials, Public speaking, Spanish 1,2,3,4 and Culinary Foundations.

Thank you for letting us be a part of the Pathways Advisory Council.

Thank you,

Sherry Kauffman and Alexis Kauffman

KL HARRING *Transportation, llc.*

9120 Old Route 22
Bethel, PA 19507
Phone: 800-223-4808 717-933-5992
Fax: 717-933-5863

November 18, 2025


To whom it may concern,

I am writing to express my approval of the Tulpehocken Area High School's Pathway Program, specifically the Engineering and Industrial Technology Pathway. In well establishing and promoting this pathway, students who may not see themselves in a college environment after high school will be able to cultivate their skills and explore options for careers in these fields that may not have been made clear to them otherwise.

Having the opportunity to gain foundational skills through classes in this pathway such as Introduction to Business, Small Gas Engines, and Computer Science can well prepare high school students for potential future career opportunities within the transportation industry. As an industry leader in the local community, I can attest to the value of this pathway, as taking its courses can prepare students to enter relevant fields, such as the transportation industry, after completing their education.

The Pathway Program being laid out is not only helpful for students choosing their classes, but an innovative way for the next generation of the workforce to gain an education that will benefit them beyond the classroom. I can affirm that the vision being laid out in the Engineering and Industrial Technology Pathway is one that not only aligns with the current transportation industry expectations but will best prepare students of Tulpehocken Area High School for success in the field.

Respectfully,



Keith L. Harring

K.L. Harring Transportation, LLC



Sue Frey
REALTOR
Keller Williams Platinum Realty
60 Commerce Dr
Wyomissing PA 19610

Dear Mr. Hamrick,

I am writing to show my support for the Tulpehocken Area High School Pathway to Success program for THS students. I believe the Pathway program is an excellent way for students to see which classes will be beneficial to them in their career choice. It will help them prepare for either further studies in the field of their choice, or it will prepare them to step successfully into their chosen career after graduation. Also, given the great details on each of the courses available, it will help undecided students see what is available to them and help them make their decision as to what career they want to pursue.

I believe the THS Pathway to Success program has great value to THS students and will be very beneficial in helping them achieve success in their future.

Sincerely,

Sue Frey

Sue Frey REALTOR
Keller Williams Platinum Realty
Wyomissing PA 19610
717-639-1268
susanfrey@kw.com

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BOARD OF DIRECTORS

Kyle Batz, President
William Palmer, Vice-President
Christopher Heck, Treasurer
Kristan Rissmiller, Secretary
Christopher Beitler, Member
Jennifer Kester, Member
Harry Fox, Member
Matthew Hetrick, Member
Steven Bressler, Member

DISTRICT ADMINISTRATION

Dr. Andrew Netznik, Superintendent
Dr. Denis Quirk, Assistant Superintendent
Kimberly Umphrey, Chief Financial Officer
Taylor Charles, Assistant to the Superintendent for Student Services
Kylene Sanders, Director of Teaching and Learning
Adrienne Troutman, Coordinator of Student Services
Matt Shirk, Chief Operating Officer
Jillian Bergman, Director of Food Services

BUILDING ADMINISTRATION

Christopher Hamrick, High School Principal
Chad Gerard, Assistant High School Principal
Trevor Brown, Director of Athletics, Student Activities, and Community Relations

TULPEHOCKEN GRADUATION REQUIREMENTS

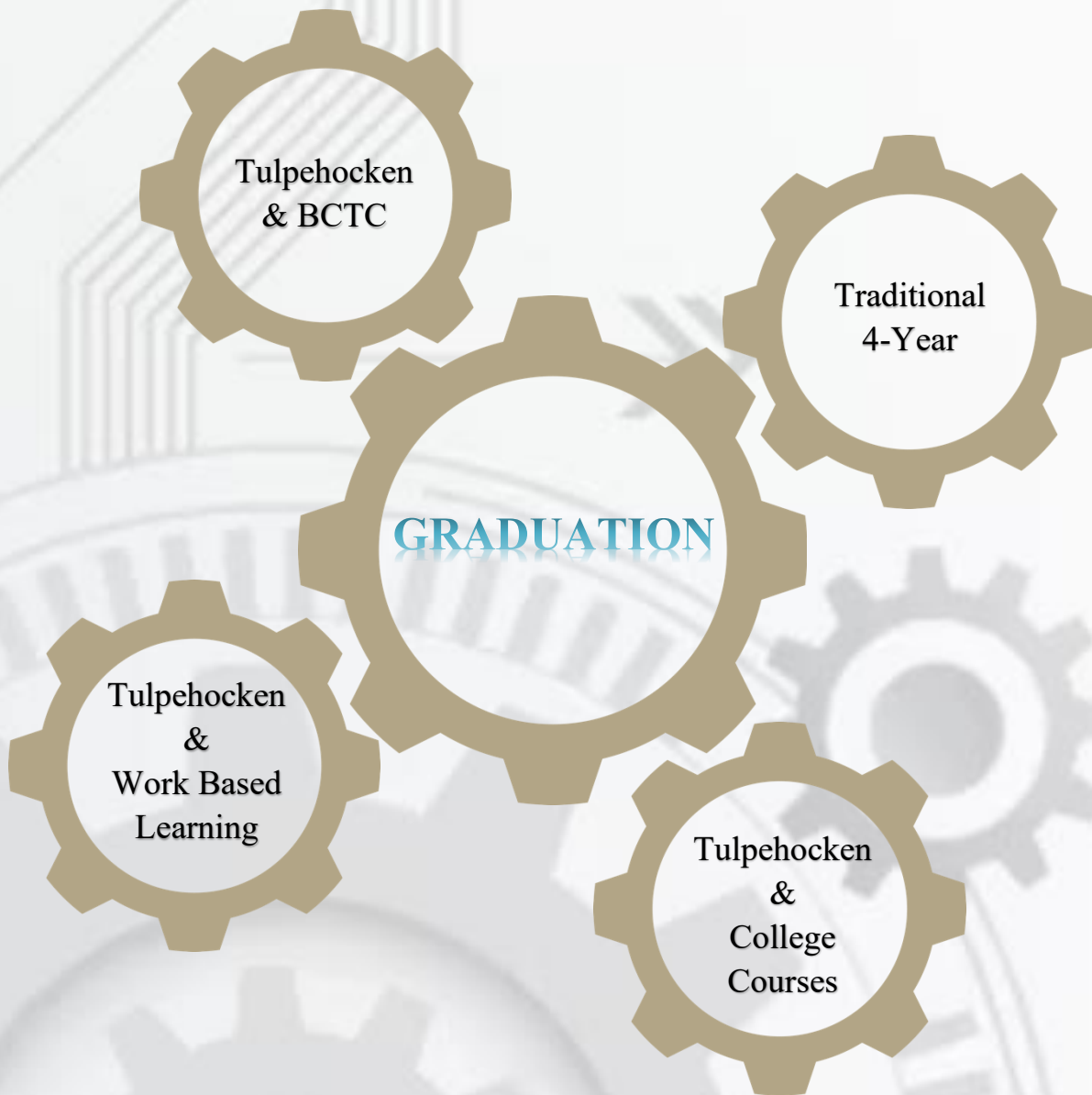
SUBJECT	CREDIT REQUIREMENTS
English	4.00
STEM (Science, Technology, Engineering & Mathematics)	8.00
→ Science (3 credits)	
◆ Biology is required	
◆ Two additional Science credits	
→ Math (3 credits)	
◆ Keystone Algebra	
◆ Two additional Math classes*	
*Students who took Keystone Algebra in 8th grade will still need three math credits during their high school career.	
→ Two Additional STEM credits	
◆ Agriculture	
◆ Computer Science	
◆ Math	
◆ Tech Ed	
◆ Science	
◆ BCTC	
Social Studies	4.00
Wellness Credits	2.00
→ Wellness I, II (1.0 credits)	
→ Physical Education Classes (1.0 credits)	
Drivers Education & First Aid/CPR	0.5
Computer Science	0.5
Financial & Career Concepts	0.5
Electives	5.5
Graduation Project	1.0
TOTAL CREDITS REQUIRED	26.00

CTC GRADUATION REQUIREMENTS

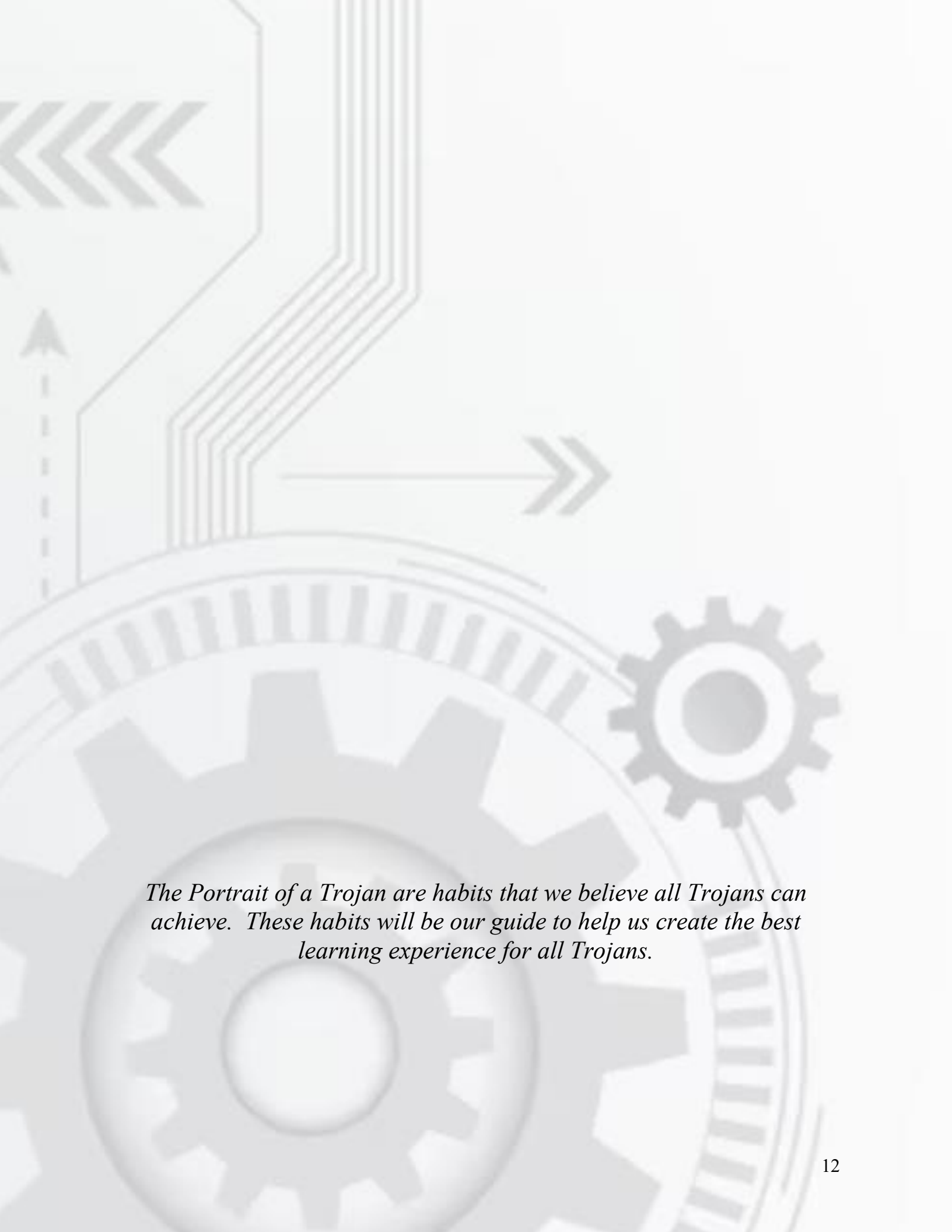
SUBJECT	CREDIT REQUIREMENT
English	4.00
STEM Credits	6.00
→ Required Courses	
◆ Biology (1.00 credit)	
◆ One additional Science (1.00 credit)	
◆ Algebra I or II (1.00 credit)	
◆ Geometry or another Math Class (1.00 credit)	
Social Studies	3.00
Berks Career and Technology Credits	9.00
Wellness Credits	1.50
→ Wellness I, II (1.0 credits)	
→ Physical Education class (0.5 credits)	
Driver Education and First Aid/CPR	0.50
Financial & Career Concepts	0.50
Computer Science	0.50
Graduation Project	1.00
TOTAL MINIMUM CREDITS REQUIRED FOR GRADUATION	26.00



Gearing Up for Graduation



See the counseling office for more information

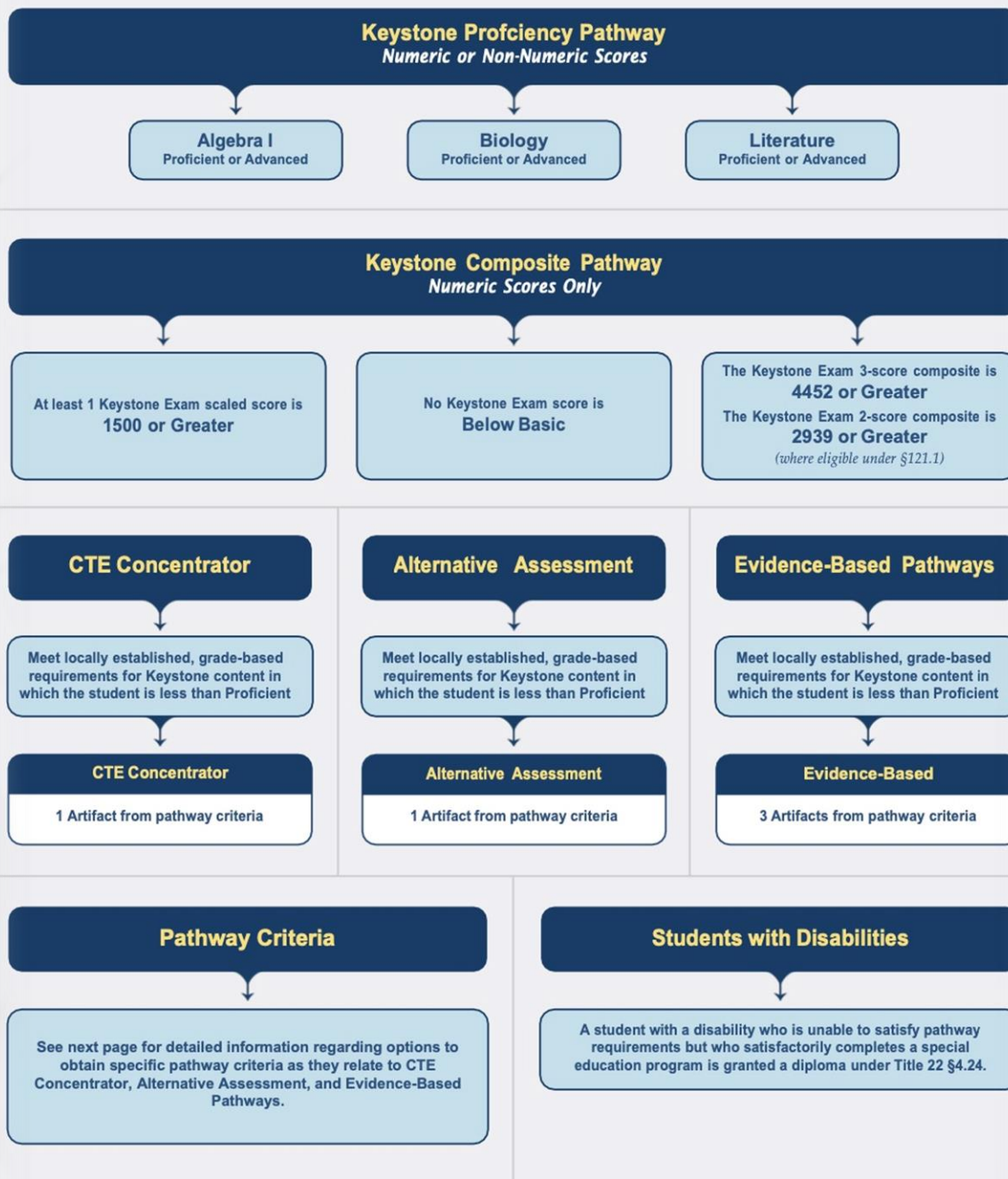
The background features a light gray, stylized graphic of interlocking gears and circuit-like lines. A large gear is prominent in the lower-left, with a smaller gear to its right. Circuit lines with arrows point in various directions, including a dashed arrow pointing up on the left and a solid arrow pointing right in the center. The overall aesthetic is technical and modern.

The Portrait of a Trojan are habits that we believe all Trojans can achieve. These habits will be our guide to help us create the best learning experience for all Trojans.

RESILIENT INDIVIDUAL	INNOVATIVE PROBLEM SOLVER	EFFECTIVE COMMUNICATOR	COMPASSIONATE CITIZEN	ACTIVE COLLABORATOR
<p>Definition: Relies on a sense of passionate purpose, positivity, and grit to overcome obstacles and recover from setbacks in pursuit of achieving goals.</p>	<p>Definition: Analyzes problems and adaptively explores solutions by generating unique possibilities using what they know in new and creative ways.</p>	<p>Definition: Uses an awareness of their audience and situation to craft transparent, mindful, and clear messages while actively listening to the thoughts of others in an honest exchange of ideas.</p>	<p>Definition: Demonstrates understanding, kindness, and a genuine concern for the well-being of others in their community and actively contributes to building a positive and supportive society.</p>	<p>Definition: Cooperates with others in a team effort to achieve a shared goal by relying on and valuing diverse individual strengths and interacting respectfully and effectively.</p>
<p>I Statements:</p> <p>I gather strength from my community to rise above all challenges.</p> <p>I learn and adjust, knowing setbacks are opportunities to grow stronger.</p> <p>I embrace hard work because achieving my goals is earned through tireless effort.</p> <p>I focus on the possibilities that lie ahead, not current limitations.</p> <p>I am a resilient individual.</p>	<p>I Statements:</p> <p>I analyze problems from multiple angles.</p> <p>I seek to understand by asking critical questions.</p> <p>I learn from both successes and failures.</p> <p>I challenge myself to grow beyond my comfort zone.</p> <p>I am an innovative problem solver.</p>	<p>I Statements:</p> <p>I actively listen and acknowledge different viewpoints to engage in constructive dialogue.</p> <p>I create an environment that allows voices to be heard.</p> <p>I understand my audience and design my messages accordingly.</p> <p>I express myself with honesty and integrity.</p> <p>I am an effective communicator.</p>	<p>I Statements:</p> <p>I hold myself accountable for my actions.</p> <p>I actively listen to and try to understand the perspectives of others, even when they differ from my own.</p> <p>I treat those around me the way I would like to be treated.</p> <p>I assist and support those in need without expecting anything in return.</p> <p>I am a compassionate citizen.</p>	<p>I Statements:</p> <p>I recognize, appreciate, and value different strengths because they contribute to a well-rounded solution.</p> <p>I provide constructive feedback and actively seek it from others to improve the team's work.</p> <p>I compromise and adapt my approach to achieve a common goal.</p> <p>I interact with teammates in a way that makes everyone feel safe to share their ideas.</p> <p>I am an active collaborator.</p>



Pennsylvania Pathways to Graduation



NOTE: Although this infographic displays a sequential progression, students may fulfill criteria under the CTE Concentrator, Alternative Assessment, or Evidence-Based Pathways prior to demonstrating proficiency in Keystone academic content through Keystone Exam scores or locally established grade-based requirements.

Pathway Criteria

CTE Concentrator	Alternative Assessment	Evidence-Based
1 Artifact	1 Artifact	3 Artifacts consistent w/student goals ONE or more from Section One No more than TWO from Section Two
<p>Industry-based competency certification</p> <p>Likelihood of industry-based competency assessment success</p> <p>Readiness for continued engagement in CTE Concentrator program of study</p>	<p>Attainment of one alternative assessment score or better: ACT (21), ASVAB AFQT (31), PSAT/NMSQT (970), or SAT (1010)</p> <p>Attainment of Gold Level or better on ACT WorkKeys</p> <p>Attainment of 3 or better on AP Exam(s) related to each Keystone content area in which less than Proficient</p> <p>Attainment of 4 or better on IB Exam(s) related to each Keystone content area in which less than Proficient</p> <p>Successful completion of concurrent enrollment course(s) related to each Keystone content area in which less than Proficient</p> <p>Successful completion of a pre-apprenticeship program</p> <p>Acceptance into accredited, non-profit Institution of Higher Education (IHE) 4yr program for college-level coursework</p>	<p>Section 1</p> <p>Attainment of 630 or better on any SAT Subject Test</p> <p>Attainment of Silver Level or better on ACT WorkKeys</p> <p>Attainment of 3 or better on any AP Exam</p> <p>Attainment of 3 or better on any IB Exam</p> <p>Successful completion of any concurrent enrollment or postsecondary course</p> <p>Industry-recognized credentialization</p> <p>Acceptance into accredited, non-profit Institution of Higher Education (IHE) for college-level coursework in an other-than-4yr program</p> <p>Section 2</p> <p>Attainment of Proficient or Advanced on any Keystone Exam</p> <p>Successful completion of a service-learning project</p> <p>Letter guaranteeing full-time employment or military enlistment Completion of an internship, externship, or cooperative education program</p> <p>Compliance with NCAA Division II academic requirements</p>

RECOMMENDED SEQUENCE OF COURSES BY GRADE LEVEL

Students in grades 9-11 are required to carry 6.5 credits

12th graders are recommended to carry 6.5 credits

Grade 9	Grade 10	Grade 11	Grade 12
English 9	English 10	English 11	English 12
Mathematics	Mathematics	Mathematics	Mathematics
Environmental Science Agricultural Food and Natural Resources	Biological Concepts Chemistry	Chemistry, Chemistry II, Physics or Integrated Science	Science, Math, or Bus. Math elective 1.0 cr.
US History II	World Cultures	Government	Soc. Stud elect. & Economics or AP Gov't & Politics or AP Economics
Wellness I	Wellness II	Physical Education	Physical Education
	Driver Education First Aid/CPR	Financial & Career Concepts	Electives 5.5
Intro to Computer Science			
Electives 1.0 World Language recommended for college bound students	Electives 2.0 World Language recommended for college bound students	Electives 2.0 World Language recommended for college bound students	World Language recommended for college bound students

- Honors classes are available in most core courses.
- Students cannot have more than 9 study halls within a six-day cycle.
- All college bound students should take at least two credits of the same World Language and four credits each of Math and Science (including Chemistry)

DROP/ADD PERIOD

The drop/add period occurs the first two weeks of school. After the first two weeks, no changes will be made except by permission of the Principal and with parental signature. Courses dropped after the add/drop period will result in a W/F (withdrawal/failure) on the student's transcript.

OPTIONAL CREDIT PROGRAMS

School Board Policy 241 allows students to test out of a class and receive a credit. Students interested in this option should speak to their counselor in order to see if they met the criteria for this option. Students must apply for this option no later than May 15 in order to test out of a class for the upcoming year. Students must achieve at least an 85% on the assessment administered in order to receive credit. Any assessment must be completed prior to the start of the first day of the upcoming year. Students can download a copy of the course curriculum to prepare themselves for the assessment.

GRADING SYSTEM

The following numerical grading system is used on report cards and transcripts:

90 to 100 - **A** 80 to 89 - **B** 70 to 79 - **C** 65 to 69 - **D** 60 to 64 - **F**

Guidelines to be promoted and to graduate on time		
To be promoted from:	Credits Required	Core Courses (English, Social Studies, Math & Science) Requirement
Grade 9 to Grade 10	6	Must pass 3 of 4 core courses
Grade 10 to Grade 11	12.5	Must pass 7 of 8 core courses
Grade 11 to Grade 12	19.0	Must pass 11 of 12 core courses

GRADE POINT AVERAGE SCALE

Should a student's numerical or letter grade need to be converted to a 4.0 grade point system, the following chart demonstrates the conversion:

GPA	PERCENTILE	LETTER GRADE	GPA	PERCENTILE	LETTER GRADE
4.0	95-100	A	2.4	79	C
3.9	94	A	2.3	78	C
3.8	93	A	2.2	77	C
3.7	92	A	2.1	76	C
3.6	91	A	2.0	75	C
3.5	90	A	1.9	74	C
3.4	89	B	1.8	73	C
3.3	88	B	1.7	72	C
3.2	87	B	1.6	71	C
3.1	86	B	1.5	70	C
3.0	85	B	1.4	69	D
2.9	84	B	1.3	68	D
2.8	83	B	1.2	67	D
2.7	82	B	1.1	66	D
2.6	81	B	1.0	65	D
2.5	80	B			

CLASS RANK AND WEIGHTED COURSES

Class rank is determined by computing a student's total grade point average. Considering the increased demand and acceleration expected of students in Honors, Advanced Placement and college courses, additional grade value weight is assigned for the purpose of determining a student's GPA (grade point average). Weighted grading applies only to the grade point average used in determining class rank. The weighted GPA has no impact on quarterly grades issued for honor roll computation. **Class rank and GPA are also used to determine the valedictorian and salutatorian honors. These honors will be determined once all senior grades have been finalized for the year.**

The following weighted value will be used to determine class rank:

- 1.00 - Core Academic courses, BCTC programs
- 1.05 - Honors courses, Spanish IV, MHP Program
- 1.10 - Advanced placement and college courses - both on and off campus

INTERVENTIONS

Students in need of academic support will be automatically placed in a subject specific academic intervention during advisory period. These interventions are geared at providing additional support for students in the core areas of English Language Arts and Mathematics.

WORLD LANGUAGES

While students are not required to take a World Language, it is **STRONGLY** recommended and encouraged that academic students planning on continuing their education after high school take at least two years of the same World Language. It should be noted that many colleges and universities recommend three years of study, preferably four, of the same language prior to college admission. **NOTE:** German I and German II are only offered through TVA. Additional World Language classes may be available through TVA and or VHS online providers.

ARTICULATION AGREEMENTS

Students and parents are encouraged to explore the post-high school institutions for dual credit or waiver of a course at the college level. The BCTC and technical training in Agriculture or Business Technology may articulate to college credit. Sample colleges and institutes that may articulate our high school offerings are as follows: Berks Technical Institute, Delaware Valley University, Harrisburg Area Community College, Schuylkill Institute of Business and Technology, Lehigh Carbon Community College, Northampton Community College, Northwestern College, Ohio Technical Institute, Pennsylvania College of Technology, Pennsylvania School of Art & Design, Reading Area Community College, Thaddeus Stevens College of Technology, Thompson Institute, and Vale Technical Institute.

ADVANCED PLACEMENT

The College Board Advanced Placement Program (AP) is an opportunity for students to pursue college-level studies while still in high school. Through this program students may earn credit, advanced placement, or both for college. AP courses are taught using a standardized curriculum recognized by the majority of post-secondary institutions. After students complete an AP course, they will be required to take the AP exam offered in the spring of the academic year that assesses their mastery of the course competencies unless they are also taking the course for college credit through Alvernia and Albright. Students can then submit their score to the colleges of their choice for advanced standing or credit consideration. Final decisions are made solely by the post-secondary institution. It is the responsibility of the student to pay the fee for the AP exam. Financial aid will be available for students with free and reduced lunch. AP courses are offered in the following areas: AP US Government and Politics; AP Calculus; AP Statistics, AP Language and Composition, AP Precalculus, AP Physics and AP Computer Science Principles. Additional AP classes may be available through TVA and or VHS online providers.

DUAL ENROLLMENT COLLEGE PROGRAM

Alvernia University-Albright College-Commonwealth University of Pennsylvania



Multiple options exist for the Dual Enrollment College Program. Qualified Tulpehocken Area High School students (while currently enrolled in high school), may simultaneously earn college credits through Alvernia University, Albright College, RACC, Commonwealth University of Pennsylvania and Kutztown University. Students are encouraged to meet with the Tulpehocken Guidance Department for the course offerings.

Student Eligibility

Students who meet all the following criteria are qualified to participate in the program:

- A. Achieved class standing as a junior or senior at Tulpehocken High School.
- B. Is making satisfactory academic progress towards fulfilling applicable secondary school graduation requirements as determined by Tulpehocken High School. Tulpehocken High School will determine satisfactory progress based on the students having accrued the expected number of credits for their grade level.
- C. Should typically have a secondary school cumulative grade point average of 3.0 on a 4.0 scale and/or a grade point average of 3.0 in the applicable subject area.
- D. Completes and submits the Dual Enrollment Program Application Form to the College/University Admissions Office and has a transcript submitted from Tulpehocken Area High School. This can be completed through the College/University website.
- E. Students must be able to provide their own transportation.

All college courses will be noted on the high school transcript with the course title and grade. College level (not remedial) courses will be weighted according to the guidelines listed in the Program of Studies and Course Description Booklet, and will be included in the student's high school GPA and class rank. It is the student's responsibility to provide their counselor with a list of courses they are enrolled in before the semester begins and an official transcript of grades and credits earned for college courses at the end of each semester.

TULPEHOCKEN VIRTUAL ACADEMY (TVA)

TVA is Tulpehocken Area School District's cyber school that was established in the 2009-2010 school year. We offer full-time, part-time, and hybrid online programs for students in grades K-12. Full-time TVA students are offered a laptop, and monthly internet stipend. Courses are available from several online providers and students can also opt to take some of their classes in our buildings to maximize their learning choices. Students are considered Tulpehocken students and can participate in any activities that are offered to students within the building, such as sports, assemblies, dances and field trips. Not all classes offered within the building are available online through TVA.

TVA students are expected to log in and complete work on all T ASD school days and to meet the same graduation requirements as students in the building. Upon completion of all required credits, students earn a Tulpehocken diploma and are welcome to participate in all senior activities like prom, class trips and graduation ceremonies. Please see your school counselor or and Mrs. Erika Kindoll, TVA coordinator at ekindoll@tulpehocken.org for more information. Additional information can be found on the TVA website at <http://www.tulpehocken.org/tva>.



VHS LEARNING

Students with an 80% GPA or higher have the option of taking elective courses online via VHS Learning. Please see www.vhslearning.org for a full list of courses. Options include full year, fall only, and spring only courses. Courses not currently offered at Tulpehocken are available for students to take. Course offerings include many unique electives that are not offered in the building, including Latin, American Sign Language, and Forensic Science as well as many AP courses. Students must complete a registration packet and meet all requirements before being accepted as a VHS student. Spaces are limited. Please refer to the high school website for further information. Students may also contact their school counselor or Mrs. Erika Kindoll, VHS Site Coordinator. Students taking an Advanced Placement course through VHS Learning are required to take the AP exam offered in the spring of the academic year that assesses their mastery of the course competencies. Please refer to the section on Advanced Placement for additional information.

GRADUATION PROJECT

The Tulpehocken Graduation Project is a one-credit course required of all Tulpehocken Area Senior High School students. Each student will identify an area of interest based on the student's career plan as developed through Tulpehocken's Chapter 339 Career Work and Education standards. The Project is a minimum of 35 hours which includes 1) the completion of CEW standards during grades 9-11 including a Career Plan and 2) refinement of their Career Plan through one of the following experiences:

Community service
Personal development
Career exploration
Research

The Graduation Project is evaluated using a pass/fail system. A student that fails has the opportunity to continue improving the Project in order to receive a passing grade.

Parts of the Project

All Projects have four parts; each part must be completed successfully to receive a passing grade.

1. Career Plan & Portfolio—the student completes at least eight assigned career activities representing each CEW standard, including a Career Plan, by the end of the junior year. Artifacts from these activities are maintained in the student portfolio.
2. The Project (Work/Experience) - the student a) decides on a project, b) completes a proposal contract form, c) obtains mentor clearances, if required, d) obtains Coordinator approval for the project e) complete all the activities of the approved Project and f) submits timesheet and mentor letter by mutually agreed upon date on the contract. Hours must be completed by the end of the 1st semester senior year. Career Plan plus The Project must total 35 hours.
3. Written Paper—the student creates a title page and writes a two-page paper. The first draft is assessed by a staff member and returned to the student for corrections/modifications. The student submits a final paper by the mutually agreed upon date on the contract. The teacher assesses the final paper based on the rubric. The written component must be passed before the following month's presentation date.
4. Oral Presentation—the student will speak for ten to twenty minutes describing the completed Project. The student must include visuals to enhance the presentation. A committee of teachers and/or administrators will evaluate the student's oral presentation using a rubric. Projects that do not pass will be rescheduled for the following month's presentation date. A second failure may necessitate a new project.

Timeline

The Project, Written Paper and Oral Presentation must be completed within one calendar year unless stated otherwise on the contract. Both the written component and oral presentation must be completed during the semester after the work portion of the project is completed.

Considerations

Arrangements have been made with the Berks Career and Technology Center, Special Education Department, and Agriculture classes to coordinate projects. Two students may work on a project together, but each must do the proposal, written paper, and presentation individually. Failure to meet guidelines may jeopardize participation in the SPA, driving privileges, attendance at the prom and graduation activities. The Coordinator of Graduation Projects is the faculty in charge of all Projects. Designated faculty meets with and directs each student's Project.

NCAA CLEARINGHOUSE INFORMATION FOR STUDENT ATHLETES

If students are planning to enroll in a Division I or Division II college and wish to participate in athletics, they must be certified by the NCAA Initial-Eligibility Clearinghouse. Student-Athletes should inform their school counselors of their college athletic plans and should be aware of NCAA requirements starting with ninth grade courses. The NCAA strongly suggests that prospective collegiate student-athletes use the online registration material by visiting the website listed below. Note: Most TVA (Tulpehocken Virtual Academy) courses may not be approved. Please check with your counselor or TVA coordinator.

The NCAA provides a “Guide for the College-Bound Student-Athlete” at the website below. This publication provides all specific eligibility requirements regarding Division I, II, or III sports. Additional resources may also be found at the website or call the customer service number at 877-262-1492 for additional information.

Please visit www.eligibilitycenter.org for additional information

NOTE: ALL COURSES THAT ARE NCAA APPROVED WILL HAVE THE ICON BELOW

NCAA CORE COURSES		
English	<ul style="list-style-type: none"> • Academic English 9 • Academic English 10 • Academic English 11 • Academic English 12 • English 9 Honors • English 10 Honors • English 11 Honors • English 12 Honors 	<ul style="list-style-type: none"> • Public Speaking • Short Story/Poetry • Shakespeare • AP Language and Composition • VHS AP English Literature and Composition • Contemporary Literature
Social Studies	<ul style="list-style-type: none"> • AP Macroeconomics • AP US Government & Politics • Current World Affairs • Comparative Religions • Economics • Economics Honors • Modern US History • Psychology • Psychology II • VHS AP Psychology 	<ul style="list-style-type: none"> • Problems of Democracy • Problems of Democracy Honors • Sociology • US Government • US Government Honors • US History II • US History II Honors • World Cultures • World Cultures Honors • Berks County Local History
Mathematics	<ul style="list-style-type: none"> • Academic Algebra II • Academic Geometry • Algebra II Honors • AP Calculus AB • AP Calculus BC • AP Statistics • AP Computer Science A • AP Precalculus • Computer Science Essentials 	<ul style="list-style-type: none"> • Calculus Honors • College Bound Statistics • Financial Algebra • Geometry • Geometry Honors • Keystone Algebra I • Pre-Calculus • Pre-Calculus Honors
Science	<ul style="list-style-type: none"> • Biological Concepts • Biological Concepts Honors • VHS AP Biology • Biology II • Academic Chemistry • VHS AP Chemistry • Honors Chemistry • Chemistry II Honors • Environmental Science 	<ul style="list-style-type: none"> • Integrated Science • Environmental Science Honors • Academic Physics • Honors Physics • Animal and Plant Biotechnology • Natural Resources and Ecology • Robotics • Human Anatomy 1 • Human Anatomy 2
World Language	<ul style="list-style-type: none"> • Spanish 1 • Spanish 2 • Spanish 3 • Spanish 4 Honors 	



BERKS CAREER & TECHNOLOGY CENTER

The Berks Career and Technology Center (BCTC) offers over thirty programs in different career areas to students from 16 area school districts. Two campuses serve students in Berks County. The East campus is located in Oley and the West campus is located in Leesport. Travel time and instruction at BCTC comprise four periods plus the Advisory period per day in the Tulpohocken schedule. Students will take required academic courses at their high school while attending the BCTC for their technical program. Programs are designed for three years in length beginning in the 10th grade; however, 11th and 12th grade students may also begin a program. All programs are available to students regardless of district location.

Laboratories equipped with computers, industrial machinery, and other state-of-the-art equipment provide hands-on training for students in addition to the academic component of each course of study. All curriculum is competency based, allowing students to proceed at a rate that is best for them and tailored to meet their own career objectives.

Tuition-free public education is provided to high school students through the tax support of the citizens and businesses from each of the sixteen Berks County school districts. Adults are required to pay tuition based on an annually approved tuition rate. Students are required to pay for books/workbooks, tools and personal protective equipment. Also, students must pay for certification testing fees.

There are many opportunities available for students enrolled in a BCTC program. All programs prepare students for immediate employment or higher education. Senior students who demonstrate a high level of competency in their program can participate in a supervised work-based learning experience. In addition, articulation agreements with the following post-secondary schools provide advanced credits or advanced placement: Berks Technical Institute, Lehigh Carbon Community College, Lincoln Technical Institute, Northampton Community College, Northwestern College, Ohio Technical Institute, PA College of Technology, PA School of Art & Design, Reading Area Community College, Schuylkill Institute of Business & Technology, Thaddeus Stevens College of Technology, Thompson Institute, and Universal Technical Institute. Currently, over thirty BCTC programs have articulation agreements to offer students advanced credit at the post-secondary level to pursue a certificate, associate, or baccalaureate degree.

BCTC students who plan to pursue post-secondary education (certificate, associate, or baccalaureate degree) should take a rigorous high school academic program in the areas of Math, Science, and English.

A program in the area of health care exists for seniors only. BCTC, Penn State-Berks, and The Reading Hospital & Medical Center (TRHMC) are collaborating to offer an exciting Medical Health Professions Program for high school seniors. The program combines high level academics with the opportunity to shadow health care professionals and earn college credits. Students will be enrolled in both Penn State-Berks and BCTC for one year, taking Chemistry and Physiology courses at Penn State-Berks two days per week and attending health classes and shadowing healthcare providers at TRHMC three days per week. Admission to the program is competitive and students must meet strict admission guidelines.

The Technical Academy also provides college-bound students with the opportunity to develop advanced technical skills and earn college credit toward an associate and/or bachelor's degree while still in high school. Programs in the Technical Academy include: IT Networking, Technology Based Entrepreneurship, IT Programming, Mechatronics Engineering Technology and Healthcare Information Technology. Students must begin these programs in either grade 10 or 11. Please visit www.berkscareer.com or your school counselor for more information.

BCTC Programs of Study

<p>Engineering and Manufacturing Technology Drafting Design Technology (W) Precision/Comp Machining Tech (W) Mechatronics Engineering Technologies (W) Welding Technology (W)</p> <p>Business & Information Technology Computer Systems Networking & Security (E) IT Programming (W) Business Management & Entrepreneurship (W)</p> <p>Communications Advertising Art & Design Technology (W) Video & Media Content Production (W)</p> <p>Healthcare Dental Occupations (E) Health Occupations (W) Sports Medicine & Rehabilitative Therapy (E) Medical Health Professions (W)</p> <p>Services Cosmetology (B) Early Childhood Education (B) Culinary Arts (B) Service Occupations (E) Protective Services – Homeland Security or Law Enforcement (E)</p>	<p>Construction Building Construction Occupations (E) Cabinetry & Wood Technology (E) Carpentry (E) Electrical Occupations (W) Heating, Ventilation, Air Cond. & Refrigeration (E) Heavy Equipment Operator (E) Masonry (E) Residential Painting and Interior (E) Plumbing & Heating (E)</p> <p>Transportation Automotive Collision Repair Technology (B) Automotive Technology (B) Diesel Technology (E) Heavy Equipment Technology (E) Recreational & Power Equipment Technology (W)</p> <p>Technical Academy IT Programming (W) Business Management & Entrepreneurship (W) Computer Systems Networking & Security (E)</p>
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W – West Campus in Leesport, E – East Campus in Oley, B – Both Campuses

- **Application Process** – Students apply for enrollment at BCTC through their school counselor. All student applications are sent to the BCTC where candidates from throughout the county are chosen. Each student application is reviewed according to the following criteria:
 - **Student Interest** – The thoroughness of the application is viewed as a measure of the interest of the student applicant. Special attention is paid to what research was done to find information about the career area to which a student is applying.
 - **Teacher Evaluations** – Students may request evaluations from two junior or senior high school teachers of their choice.
 - **Counselor Recommendation**
 - **School Citizenship** – Student behavior and attitudes are noted.
 - **Attendance** – Students should have strong patterns of school attendance. Absences and tardies are reviewed.
 - **Academic Scholarship** – Rigor of courses taken, grades, and PSSA Math and Reading scores are reviewed.

It is the policy of the BCTC not to discriminate on the basis of sex, handicap, race, color, or national origin in its educational vocational programs, activities or employment, as required by Title IX, Section 504 and Title VI. Inquiries regarding compliance with Title IX, Section 504 or Title VI should be directed to the office of the Administrative Director at 1057 County Road, Leesport, PA 19533, 610-378-4844.

What's your pathway?

- ARTS & COMMUNICATION
- BUSINESS FINANCE & INFORMATION TECHNOLOGY
- ENGINEERING & INDUSTRIAL TECHNOLOGY
- HUMAN SERVICES
- SCIENCE AND HEALTH





ARTS & COMMUNICATION

CAREERS

Audio/Visual Technology-Interactive Media-Journalism Printing/Publishing
 Video Production & Film Telecommunications-Public Relations (PR)-Internet Design
 Journalism & Broadcasting-Visual & Design Arts-Marketing & Advertising-Graphic Design-Performing
 Arts-Photography-Writing

CORE

English-9, 10, 11, 12
 Math-Algebra/Pre-algebra, Algebra 2, Geometry, Personal Finance
 Social Studies-World Cultures, US History 2, US Government, Psychology/Sociology
 Science-Environmental, Biology, Chemistry, Integrated Science

GRADUATION REQUIREMENTS

Computer Science-Introduction to Computer Science
 Wellness-Wellness 1, Wellness 2
 Driver's Ed/CPR and First Aid
 Financial & Career Concepts

ELECTIVES (5.5 credits)

AP Language Psychology 2 Art and Design 1, 2 High Photojournalism Ceramics 1, 2 Graphic Design 1, 2 Computer Applications Business Law Advanced Computer Applications Berks Local History Culinary Foundations	Web Page Design Marketing Introduction to Business Video Production 1, 2, 3, 4 Drama Short Story Writing/Poetry Shakespeare Contemporary Literature Public Speaking 3D Design TTV Production	Culinary Foundations Baking and Pastry Essentials Interior Design Textiles: Design and Production Music Theory Beginning Guitar Music Appreciation Keyboard 1, 2 Spanish 1, 2, 3, 4 SAT Math Preparation AP US Government and Politics
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BUSINESS FINANCE & INFORMATION TECH

CAREERS

Management & Administration-Finance-Marketing-Information Technology
 Administrative Services-Accounting Marketing-Communications Information Support & Services-
 Business Information Technology-Banking Services Marketing Management-Interactive Media-
 Corporate/General Management Corporate Finance-Marketing Research-Network Systems-Human
 Resource Management-Insurance Merchandising / Sales Programming & Software Engineering-
 Operations Management-Securities & Investments

CORE

English-9, 10, 11, 12
 Math-Algebra, Algebra 2, Geometry, Pre-Calculus/College Bound Statistics
 Social Studies-World Cultures, US History 2, US Government, Psychology/Sociology, Economics,
 Current World Affairs
 Science-Ag Food and Natural Resources, Biology, Chemistry, Integrated Science

GRADUATION REQUIREMENTS

Computer Science-Introduction to Computer Science
 Wellness-Wellness 1, Wellness 2
 Driver's Ed/CPR and First Aid
 Financial & Career Concepts

ELECTIVES

AP Macroeconomics Accounting 1, 2 Video Productions Public Speaking Computer Applications Business Law Landscape Design and Hardscapes Computer Science Essentials	Advanced Computer Applications Web Page Design Marketing Introduction to Business AP Computer Science A Entrepreneurship College Bound Statistics	International Agriculture Agricultural Leadership and Communication Agricultural Business Foundations Personal Finance Electrical Robotics SAT Math Preparation AP US Government and Politics
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ENGINEERING & INDUSTRIAL TECH

CAREERS

Transportation-Distribution, & Logistics Agriculture-Food, & Natural Manufacturing-Facility & Mobile Equipment Maintenance Resources Production Process Technology-Health-Safety & Environmental Management Animal Science Manufacturing Production-Logistics Agribusiness Systems Maintenance-Installation & Repair- Planning & Management Services-Environmental Service Systems-Quality Assurance- Sales-Service, & Transportation Food Products & Processing Systems Logistics & Inventory Control, Systems Infrastructure Natural Resources, Planning Management & Regulation Plant Science Energy Warehousing & Distribution Center Operations Power, Structural, & Technical Fossil Energy Production, Systems Transmission & Distribution, Architecture & Construction, STEM Production Process Technology, Construction Design Science, Technology, Engineering, & Math Renewable Energy Production Maintenance & Operations Energy Research

CORE

English-9, 10, 11, 12

Math-Algebra, Algebra 2, Geometry, Pre-Calculus

Social Studies-World Cultures, US History 2, US Government, Psychology/Sociology, Economics, Current World Affairs

Science-Ag Food and Natural Resources, Biology, Chemistry, Physics

GRADUATION REQUIREMENTS

Computer Science-Introduction to Computer Science

Wellness-Wellness 1, Wellness 2

Driver's Ed/CPR and First Aid

Financial & Career Concepts

ELECTIVES

AP Pre-Calculus AP Calculus AB/BC AP Statistics AP Language AP Computer Science Principles Principals of Agriculture Science-Animal Veterinary Science Principals of Agricultural Science-Plant Landscape Design and Hardscapes Turf Science and Management Natural Resources and Ecology Animal and Plant Biotechnology Food Products and Processing	Agricultural Business Foundations International Agriculture Agricultural Power and Technology Mechanical Systems in Agriculture Agricultural Construction Small Gas Engines Advanced Welding Art and Design 1, 2 Graphic Design 1, 2-3D Design Computer Applications Advanced Computer Applications Computer Programming 1 Web Page Design	Marketing Introduction to Business Entrepreneurship Computer Science Essentials TTV Production Video Production 1, 2, 3, 4 Computer Aided Design/Drafting 3D Printing and Laser Cutting Electrical Robotics Woodworking/Machines Construction Technology SAT Math Preparation AP US Government and Politics
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HUMAN SERVICES

CAREERS

Hospitality & Tourism-Human Services-Government & Public Administration
 Lodging-Consumer Services-Revenue & Taxation-Recreation-Amusements, & Attractions-Counseling & Mental Health Services-Public Management & Administration
 Restaurants-Food & Beverage Services-Early Childhood Development-Foreign Service
 Travel & Tourism-Family & Community Services-Legal Services-Personal Care Services Planning-Law-Public Safety-Corrections & Security Governance- Correction Services Education & Training Regulation-Emergency & Fire Management Services-Teaching & Training-Law Enforcement Services-Professional Support Services- Security & Protective Services-Administration & Administrative Support- Legal Services

CORE

English-9, 10, 11, 12
 Math-Algebra/Pre-algebra, Algebra 2, Geometry, Personal Finance
 Social Studies-World Cultures, US History 2, US Government, Psychology/Sociology
 Science-Environmental, Biology, Chemistry, Integrated Science

GRADUATION REQUIREMENTS

Computer Science-Introduction to Computer Science
 Wellness-Wellness 1, Wellness 2
 Driver's Ed/CPR and First Aid
 Financial & Career Concepts

ELECTIVES

Art and Design 1, 2 High School Photojournalism Graphic Design 1, 2 Accounting 1, 2 Business Law Introduction to Business Marketing 3D Design	Child Development Baking and Pastry Essentials Coaching and Officiating Strength and Conditioning Music Theory Beginning Guitar Music Appreciation Keyboarding 1, 2 Public Speaking	AP Macroeconomics Current World Affairs Psychology 2 Spanish 1, 2, 3, 4 SAT Math Preparation AP US Government and Politics Culinary Foundations Berks Local History
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SCIENCE & HEALTH

CAREERS

Health Science-Biotechnology Research & Development-Environmental Studies-Medicine-Diagnostic Services-Research Laboratories-Dental-Support Services-Animal Science-Optical-Therapeutic Services-Food Science-Medical Records

CORE

English-9, 10, 11, 12

Math-Algebra, Algebra 2, Geometry, Pre-Calculus

Social Studies-World Cultures, US History 2, US Government, Psychology/Sociology, Economics, Current World Affairs

Science-Environmental Science/Agriculture Food and Natural Resources, Biology, Chemistry, Physics and or Anatomy 1, 2

GRADUATION REQUIREMENTS

Computer Science-Introduction to Computer Science

Wellness-Wellness 1, Wellness 2

Driver's Ed/CPR and First Aid

Financial & Career Concepts

ELECTIVES

Principals of Agricultural Science-Animal Veterinary Science Principals of Agricultural Science-Plant Landscape Design and Hardscapes Turf Science and Management Natural Resources and Ecology Animal and Plant Biotechnology	Food Products and Processing Agricultural Business Foundations International Agriculture Public Speaking Culinary Foundations Child Development Baking and Pastry Essentials Culinary Nutrition for Health	Strength and Conditioning Coaching and Officiating Psychology 2 Spanish 1, 2, 3, 4 SAT Math Preparation AP US Government and Politics
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Agricultural Production

FFA membership is available through these courses.

NOTE: Students taking Agricultural Production courses can earn credits from Delaware Valley University or SUNY Cobleskill. Students interested in earning credits should discuss this option with their school counselors.



758 Supervised Agricultural Experiences SAE I, II, III, IV

1 credit

Grade 9, 10, 11, 12

Career Pathways:

The Supervised Agricultural Experience program (SAE) is an experiential learning independent study record keeping class for all students who are enrolled in an agriculture elective course. Example SAE projects are listed on the National FFA website. Students are required to review their SAE record books with their Agricultural Education Instructor at the conclusion of each marking period and school year, with weekly checks conducted by the instructor. Grading for this SAE course will be Pass/Fail.

Students can earn up to four SAE credits over four years of enrollment in Agricultural Education courses.

768 Agriculture, Food and Natural Resources (CASE AFNR)

This course is the prerequisite course for all other Ag elective courses.

1 credit

Grade 9, 10, 11, 12

Career Pathways:



AFNR is an introductory course designed to teach students about the world of agriculture, the pathways of study they may pursue, and the science, mathematics, reading, and writing components they will use throughout the CASE™ curriculum. Woven throughout the course are activities to develop and improve employability skills of students through practical applications. Students will explore career and post-secondary opportunities in each area of the course. Students' experiences will involve the study of communication, the science of agriculture, plants, animals, and natural resources. While surveying the opportunities available in agriculture and natural resources, students will learn to solve problems, conduct research, analyze data, work in teams, and take responsibility for their work, actions, and learning.

The Introduction to Agriculture, Food, and Natural Resources course includes:

- Agricultural Education – Agriculture, FFA, and SAE
- Communication Methods
- Science Processes
- Natural Resources
- Plants and Animals
- Agricultural Mechanics

747 Principles of Agricultural Science-Animal (CASE ASA)

OFFERED EVERY OTHER YEAR

1 credit

Grade 10, 11, 12

Prerequisite: AFNR

Career Pathways:



Principles of Agricultural Science—Animal is a foundation-level course engaging students in hands-on laboratories and activities to explore the world of animal agriculture. During the course, students develop a comprehensive Producer's Management Guide for an animal of their choice. Student experiences will involve the study of animal anatomy, physiology, behavior, nutrition, reproduction, health, selection, and marketing. For example, students will acquire skills in meeting the nutritional needs of animals while developing balanced, economical rations. Throughout the course, students will consider the perceptions and preferences of individuals within local, regional, and world markets.

Students will explore hands-on projects and activities to learn the characteristics of animal science and work on major projects and problems similar to those that animal science specialists, such as veterinarians, zoologists, livestock producers, and industry personnel, face in their respective careers. Students will investigate, experiment, and learn about documenting a project, solving problems, and communicating their solutions to their peers and members of the professional community

Principles of Agricultural Science—Animal areas of study include:

- History and Use of Animals
- Animal Handling and Safety
- Cells and Tissues
- Animal Nutrition
- Animal Reproduction
- Genetics
- Animal Health
- Animal Products, Selection, and Marketing

765 Veterinary Science I/II

OFFERED EVERY OTHER YEAR

1 credit

Grade 10, 11, 12

Prerequisite: AFNR, ASA, Biology and Algebra I

Career Pathways:



Molded after the Cornell University Veterinary Science Program, this course is designed to introduce students to a demanding career in Veterinary Medicine. Students will learn animal breeds and species, veterinary terminology, anatomy and physiology, animal hospital procedures, clinical exams, leadership skills, animal ownership and ethics, animal handling and grooming. Students will be dissecting specimens, maintaining a laboratory notebook, and creating lab reports based on course activities and experiments. Leadership development, including FFA, and supervised agricultural experience programs will be taught also.

750 Principles of Agricultural Science-Plant (CASE ASP)

OFFERED EVERY OTHER YEAR

1 credit

Grade 10, 11, 12

Prerequisite: AFNR

Career Pathways:



Principles of Agricultural Science—Plant is a foundation-level course teaching students the form and function of plant systems. Students experience various plant science concepts through inquiry-based exercises filled with activities, projects, and problems utilizing laboratory and practical experiences. Student experiences will include the study of plant anatomy and physiology, classification, and the fundamentals of production and harvesting. Students will learn how to apply scientific knowledge and skills to use plants effectively for agricultural and horticultural production. Students will discover the value of plant production and its impact on the individual, the local, and the global economy. Lessons throughout the course will provide an overview of the field of agricultural science with a foundation in plant science. These lessons include working in teams and exploring hands-on projects. Students will work on major projects and problems similar to those that plant science specialists, such as horticulturalists, agronomists, greenhouse and nursery managers, and plant research specialists, face in their respective careers.

Principles of Agricultural Science—Plant areas of study include:

- Soils
- Anatomy and Physiology
- Taxonomy
- Growing Environment
- Reproduction
- Pest and Disease Management
- Crop Production and Marketing

744 Landscape Design & Hardscapes (LDH)

OFFERED EVERY OTHER YEAR

0.5 credit

Grade 11, 12

Prerequisite: AFNR and APS

Paired with Turf Science and Management

Career Pathways:



Students will learn skills in creating blueprints, estimates, and landscaping designs. Topics include basic principles of design, engineering, drawing and drafting techniques including the use of technology such as computer-aided design. Students will incorporate principles of hardscapes and examine the use of artificial lighting, water systems, and creative features in their designs. Throughout the course, business management practices, employability skills, and safety procedures will also be emphasized. Students will also learn skills in constructing and installing hardscape features in a landscape. Topics include basic principles of building and implementing designs drawn and drafted from computer-aided designs and blueprints. Students will install artificial lighting, water systems, deck and creative concrete features on job sites. Throughout the course, business management practices, employability skills, and safety procedures will also be emphasized. Lastly, students will have the opportunity to become ICPI certified installers - a nationally recognized industry certification.

752 Turf Science & Management (TSM)

OFFERED EVERY OTHER YEAR WITH LANDSCAPE DESIGN

0.5 credit

Grade 11, 12

Prerequisite: AFNR and APS

Paired with Landscape Design & Hardscapes

Career Pathways:



Students will apply principles of science, engineering, and business to support the establishment and maintenance of residential, athletic, and recreational turf. Students will learn techniques for the establishment, care, production, and marketing of turf grass, along with safe operation and maintenance of specialized equipment. Throughout the course, environmental awareness and conservation practices will be emphasized along with communication, business, and management strategies appropriate for the industry. Students enrolled in this course will have the opportunity to earn their pesticide applicators license - a nationally recognized certification.

749 Natural Resources and Ecology (CASE NRE)

OFFERED EVERY OTHER YEAR

1 credit

Grade 10, 11, 12

Prerequisite: AFNR

Career Pathways:



The NRE course is a foundation course within the CASE sequence of courses. The course provides students a variety of experiences in the fields of natural resources and ecology. Students will explore hands-on projects and activities while studying topics such as land use, water quality, stewardship, and environmental agencies. Study of the natural world including biomes, land, air, water, energy, use and care as well as a focus on issues surrounding man's interaction with the Earth will be addressed in this course.

Students will select an ecosystem to study throughout the course and apply principles of natural resources and ecology from each unit of study to that ecosystem.

The lessons in Natural Resources and Ecology include the following.

- Conservation, Preservation, Exploitation
- Mother Earth
- Water Works
- Lighter than Air
- Earth's Energy
- Flora and Fauna
- Farming, Forestry, and Ferrous
- We the People
- Past, Present, Future

743 Animal and Plant Biotechnology (CASE APB)

OFFERED EVERY OTHER YEAR

1 credit

Grade 11, 12

Prerequisite: AFNR, APS or AAS, Food Products and Processing, or Chemistry

Career Pathways:



A specialization course in the CASE Program of Study, provides students with experiences in industry appropriate applications of biotechnology related to plant and animal agriculture. Students will complete hands-on activities, projects, and problems designed to build content knowledge and technical skills in the field of biotechnology. Students are expected to become proficient at biotechnological skills involving micro-pipetting, bacterial cultures and transformations, electrophoresis, and polymerase chain reaction.

Students will maintain a research level Laboratory Notebook throughout the course documenting their experiences in the laboratory. Research and experimental design will be highlighted as students develop and conduct industry appropriate investigations.

Students will develop and conduct a research project following the National FFA Agriscience Fair guidelines. From background research through data collection and analysis, students will investigate a problem of their choice and conclude the project by reporting their results in the forms of a research paper and a research poster.

Animal and Plant Biotechnology areas of study include:

- Laboratory Protocols & Safety
- Cells
- DNA & Protein
- Genetically Modified Organisms
- Micropropagation
- Polymerase Chain Reaction
- Research in Biotechnology

753 Food Products and Processing

OFFERED EVERY OTHER YEAR

1 credit

Grade 11, 12

Prerequisite: AFNR, and either AAS, ASP, or APB

Career Pathways:



In this lab heavy, inquiry-based course, students will explore the chemistry, microbiology, and engineering that impact our food. Students will cook, analyze, and design food samples and packaging. Lab techniques such as chromatography, electrophoresis, and plating, will be used to learn about the past, present, and future of food production and cooking. Students will be required to keep a lab notebook and complete a book study throughout the course. Research and experimental design will be highlighted as students develop and conduct industry appropriate

(CONTINUED)

investigations. Students will investigate, experiment, and learn about documenting a project, solving problems, and communicating solutions to their peers and members of the professional community.

Food Science and Microbiology includes the following units of study:

- Introduction to Food Science
- Chemistry of Food
- Safety of Our Food
- Food Processing Preservation and Packaging
- Food Health and Security
- Preference and Product Availability
- Food Product Development

745 Agricultural Business Foundations (CASE ABF)

OFFERED EVERY OTHER YEAR

0.5 credit

Grade 10, 11, 12

Prerequisite: Agriculture, Food, and Natural Resources (AFNR)

Career Pathways:



Agricultural Business Foundations introduces students to business management in agriculture. Mathematics, reading, and writing components are woven in the context of agriculture and students will use the introductory skills and knowledge developed in this course throughout subsequent CASE courses. Throughout the course are practical and engaging activities, projects, and problems to develop and improve business and employability skills.

Additionally, students investigate and develop viable business plans in order to solve local problems. The business plan ideas are communicated to student peers and members of the professional community.

The Agricultural Business Foundations course includes:

- Starting a business
- Financial documents
- Risk management
- Writing a business plan

The Agricultural Business Foundations course is an elective course from the CASE course menu. The course is structured for all students to experience agricultural business management practices in order to continue through a sequence of courses during high school. The knowledge and skills students develop can be used within multiple pathways of study.

754 International Agriculture

OFFERED EVERY OTHER YEAR

0.5 credit

Grade 10, 11, 12

Prerequisite: AAS, APS, ABF, APB, or Food Science & Microbiology

Paired with Ag Communications and Leadership

Career Pathways:



This class focuses on agriculture in countries around the world and frames this focus with a discussion of crucial issues facing agriculture on a global scale, emphasizing global hunger and food security. The primary goal of the course is to inform students about international agriculture, challenging them to think critically and independently about agricultural issues, and develop global citizens who are more aware of important challenges in the global agriculture, food, and natural resource systems.

The specific objectives of this course are for students to:

- Articulate major challenges related to agriculture food systems across economic, social, & environmental sectors.
- Assess the benefits and risks of different approaches to addressing global challenges in agricultural food systems.
- Understand and apply current conceptual and theoretical frameworks in agricultural development; and
- Empower students to make more informed decisions as consumers and global citizens.

746 Agricultural Leadership and Communications

OFFERED EVERY OTHER YEAR

0.5 credit

Grade 10, 11, 12

Prerequisite: Agriculture, Food, and Natural Resources (AFNR)

Paired with International Agriculture

Career Pathways:



This class is designed to discuss leadership and careers by looking at the skills necessary to be a leader, how to work as a team and manage people. Topics will include team building exercises, personality profiles, career interest profiling, parliamentary procedures, and specific leadership qualities. This class will be highly project-oriented and will include writing assignments, team and individual projects, and journals. All information will be presented in terms of how it affects you as a student, an individual, and as a future leader in society. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment and be prepared for postsecondary education. The Agricultural Communications portion of this course will expose students to a wide variety of agricultural communications career options. Students will have experiences in various communications concepts through exciting “hands-on” activities, projects, and problems, all through the lens of the agricultural industry. Students will discover the value of the agricultural industry and its impact on the individual, the local, and the global economy.

Agricultural Mechanics

FFA membership is available through these courses.

NOTE: Students taking Agricultural Production courses can earn credits from Delaware Valley University or SUNY Cobleskill. Students interested in earning credits should discuss this option with their school counselors.



758 Supervised Agricultural Experiences SAE I, II, III, IV

1 credit

Grade 9, 10, 11, 12

Career Pathways:

The Supervised Agricultural Experience program (SAE) is an experiential learning independent study record keeping class for all students who are enrolled in an agriculture elective course. Example SAE projects are listed on the National FFA website. Students are required to review their SAE record books with their Agricultural Education Instructor at the conclusion of each marking period and school year, with weekly checks conducted by the instructor. Grading for this SAE course will be Pass/Fail.

Students can earn up to four SAE credits over four years of enrollment in Agricultural Education courses.

768 Agriculture, Food and Natural Resources (CASE AFNR)

This course is the prerequisite course for all other Ag elective courses.

1 credit

Grade 9, 10, 11, 12

Career Pathways:



AFNR is an introductory course designed to teach students about the world of agriculture, the pathways of study they may pursue, and the science, mathematics, reading, and writing components they will use throughout the CASE™ curriculum. Woven throughout the course are activities to develop and improve employability skills of students through practical applications. Students will explore career and post-secondary opportunities in each area of the course. Students' experiences will involve the study of communication, the science of agriculture, plants, animals, and natural resources. While surveying the opportunities available in agriculture and natural resources, students will learn to solve problems, conduct research, analyze data, work in teams, and take responsibility for their work, actions, and learning.

The Introduction to Agriculture, Food, and Natural Resources course includes:

- Agricultural Education – Agriculture, FFA, and SAE
- Communication Methods
- Science Processes
- Natural Resources
- Plants and Animals
- Agricultural Mechanics

741 Agricultural Power and Technology (CASE APT)

RUNS EVERY YEAR

1 credit

Grade 10, 11, 12

Prerequisite: Agriculture, Food, and Natural Resources (AFNR)

Career Pathways:



Agricultural Power and Technology is a foundation level course designed to prepare students for the wide array of career opportunities in agricultural engineering. Students are immersed in inquiry-based exercises that tie in the math and science of agricultural mechanics and engineering. Throughout the course, students apply technical skills while becoming competent in the process used to operate, repair, engineer, and design agricultural tools and equipment. Agricultural Power and Technology areas of study include:

- Shop Safety
- Tool Operation
- Materials Selection & Use
- Fabrication
- Energy & Power
- Machines
- Machinery Management
- Engineering
- Technology Applications

742 Mechanical Systems in Agriculture I/II (CASE MSA)

OFFERED EVERY OTHER YEAR

0.5 credit

Grade 10, 11, 12

Prerequisite: Agricultural Power and Technology (APT) *Paired with Ag Construction

Career Pathways:



Mechanical Systems in Agriculture is the specialization-level course designed to provide rigorous applications in the agricultural engineering field. Throughout the course, students apply technical skills while becoming competent in the process used to operate, repair, engineer, and design agricultural tools and equipment. Mechanical Systems in Agriculture areas of study include:

- Electrical Systems
- Structural Systems
- Energy Systems
- Machine Service and Maintenance
- Geographic Information & Global Position Systems
- Mechanical Design & Management

755 Agricultural Construction I/II

OFFERED EVERY OTHER YEAR

0.5 credit

Grade 10, 11, 12

Prerequisite: AFNR, APT

Paired with MSA

Career Pathways:



The profession of agricultural and heavy civil construction focuses primarily on building infrastructure that improves the communities where people live and work, whether directly in the Agricultural Industry or not. This includes construction for agricultural buildings and facilities, commercial/retail Agribusiness centers, packing and distribution warehouses, water/wastewater systems, highways and other transportation systems.

The core competencies of agricultural and heavy civil construction are generally centered around activities not normally performed on buildings, such as earthwork, underground utilities, curb, stone and paving. Technicians work with civil engineers and project managers to build projects by following engineered plans and specifications, and with designated contractors who specialize in scopes of work such as land clearing, blasting, landscaping, electrical, precast concrete, retaining walls, etc. This profession uses heavy equipment and up-to-date technology to complete construction more efficiently and profitably. The instruction in this course provides students with the career readiness skills that qualify them to enter the heavy civil workforce and/or continue into a trade school/college certification program.

Areas of Study:

- Fundamentals of Construction
- Basics of Construction Industry Safety
- Heavy Civil Mathematics (Algebra, Geometry, and Basic Blueprint Reading)
- Fundamentals of Production Costs
- Surveying and Layout - Calculate pipe slopes/inverts
- Equipment and Tools
- Geotechnical Engineering
- Types of system (sanitary, storm, water)
- Laser/Survey/GPS procedures and equipment
- Materials of Construction (Aggregates, Asphalt, Concrete)

748 Small Gas Engines I/II

OFFERED EVERY OTHER YEAR

0.5 credit

Grade 10, 11, 12

Prerequisite: Agricultural Power and Technology

Paired with Advanced Welding

Career Pathways:



The purpose of this Agriculture Mechanics course is to aid in practical, working knowledge of Small Gas Engines. This course will include total disassembly and reassembly of an engine, troubleshooting and repair, and the operation and maintenance of two- and four-cycle engines. Laboratory exercises will cover compression, ignition, carburetion, fuels, lubrication, maintenance and sales. Students will develop engine trouble-shooting skills to

(CONTINUED)

determine what is wrong with an engine. Students are required to bring in their own engine to rebuild. They will be expected to pay for the parts needed to make the engine run properly. If students cannot locate an engine of their own, they may use a donated engine.

740 Advanced Welding I/II

OFFERED EVERY OTHER YEAR

0.5 credit

Grade 10, 11, 12

Prerequisite: Agricultural Power and Technology (APT), and taken with Small Gas Engines

Career Pathways:



Advanced Welding provides students with opportunities to effectively perform cutting and welding applications of increasing complexity used in the advanced manufacturing industry. Proficient students will build on the knowledge and skills of the Welding Technology course while learning additional welding techniques not covered in previous courses. Specifically, students will be proficient in fundamental safety practices in welding, gas metal arc welding (GMAW), gas tungsten arc welding (GTAW), shielded metal arc welding (SMAW), and quality control methods.

744 Landscape Design & Hardscapes (LDH)

OFFERED EVERY OTHER YEAR

0.5 credit

Grade 11, 12

Prerequisite: AFNR and APS

Paired with Turf Science and Management

Career Pathways:



Students will learn skills in creating blueprints, estimates, and landscaping designs. Topics include basic principles of design, engineering, drawing and drafting techniques including the use of technology such as computer-aided design. Students will incorporate principles of hardscapes and examine the use of artificial lighting, water systems, and creative features in their designs. Throughout the course, business management practices, employability skills, and safety procedures will also be emphasized. Students will also learn skills in constructing and installing hardscape features in a landscape. Topics include basic principles of building and implementing designs drawn and drafted from computer-aided designs and blueprints. Students will install artificial lighting, water systems, deck and creative concrete features on job sites. Throughout the course, business management practices, employability skills, and safety procedures will also be emphasized. Lastly, students will have the opportunity to become ICPI certified installers - a nationally recognized industry certification.

752 Turf Science & Management (TSM)

OFFERED EVERY OTHER YEAR WITH LANDSCAPE DESIGN

0.5 credit

Grade 11, 12

Prerequisite: AFNR and APS

Paired with Landscape Design & Hardscapes

Career Pathways:



Students will apply principles of science, engineering, and business to support the establishment and maintenance of residential, athletic, and recreational turf. Students will learn techniques for the establishment, care, production, and marketing of turf grass, along with safe operation and maintenance of specialized equipment. Throughout the course, environmental awareness and conservation practices will be emphasized along with communication, business, and management strategies appropriate for the industry. Students enrolled in this course will have the opportunity to earn their pesticide applicators license - a nationally recognized certification.

Art

520 Art & Design 1

0.5 credit

Grade 9, 10, 11, 12

Prerequisite for all other art courses except ceramics

Career Pathways:



This class is designed to encourage all students to participate in a variety of art activities. Students will learn how the elements of art and principles of design are a basis for composition as they apply to a wide variety of media. Students will learn about color theory, develop individual creativity, as well as gain basic art-making skills that are fundamentally required for upper-level courses. This course will explore a variety of artists, art processes, and materials such as drawing, painting, printmaking, and sculpting in 2D and 3D design. Effort and willingness to get involved in the creative process is a more important requirement than the student's talent or previous experience.

523 Art & Design 2

0.5 credit

Grade 9, 10, 11, 12

Prerequisite: Art & Design 1

Career Pathways:



This second-level studio art class will allow students to further develop knowledge and art skills learned from Art & Design 1, while using a wider variety of media to make 2D & 3D artwork. Students will continue to foster creativity with a strong focus on the Principles of Design, while developing skills in drawing, painting, sculpture, and crafting by using various art materials, such as acrylic and watercolor paint, chalk and oil pastels, clay, ink/dyes, scratchboard, paper/cardboard, and/or other craft materials.

521 High School Photojournalism* (full year)

1 credit

Grade 10, 11, 12

Prerequisite: Art & Design 1; max 10 students

Career Pathways:



This is a year-long course that will explore the multiple avenues required in developing a real high school book publication — the annual edition of the Tulpehocken Dardanian Yearbook! Students will be introduced to advanced camera operations using an SLR digital camera, compositional strategies, and photo editing using Adobe Photoshop. Developing a yearbook theme will have students using their creative brains from cover to cover while collaborating as a team to collect data, conduct interviews, write articles, shoot live-event photos, and design eye-catching page layouts and typography using an online software program. Students will also help promote book sales in school and learn the importance of meeting deadlines just like a professional journalist or graphic designer would need to do in the real world. **NOTE: Students are required to attend two home games or school events per season (fall, winter, and spring) that are after school and/or on weekends to shoot photography for the yearbook. The schedules are posted well in advance for students to plan and choose which dates/times work best with his/her schedule. This extracurricular participation is part of the student's grade each marking period. Transportation to/from events is the responsibility of the student. If a student is unable to fulfill this course requirement, this course may not be fitting for you.**

522 Ceramics

0.5 credit

Grade 9, 10, 11, 12

Career Pathways:



All methods of clay hand-building are explored. Each project focuses on a different theme. Developmental skills include idea generation, drawing thumbnails, wedging and sculpting clay, proper use of tools and equipment, application of glazes, and various decorating techniques. Advanced students may further develop skills using a pottery wheel and how to manage the ceramics studio.

534 Ceramics 2

0.5 credit

Grade 9, 10, 11, 12

Prerequisites: Ceramics

Career Pathways:



All methods of clay hand-building are explored. Each project focuses on a different theme. Developmental skills include idea generation, drawing thumbnails, wedging and sculpting clay, proper use of tools and equipment, application of glazes, and various decorating techniques. Advanced students may further develop skills using a pottery wheel and how to manage the ceramics studio.

527 Independent Study

0.5 credit

Grade 12

Prerequisites: Art & Design 1, Art & Design 2, + 1 more art course, & an average grade of “B” or better in art classes and recommendation of the high school art teacher.

Career Pathways:

This course may be taken your senior year after you have taken two or more art classes and MUST have a prior written recommendation from the HS art teacher. It is designed for the higher skilled artist who may pursue an interest in one of the many art fields after high school or for the highly skilled hobbyist. The student is required to be able to communicate well with the teacher about ideas, work responsibly and independently of other students in the classroom, and have good time management skills. For each project, the student will work with the teacher to decide on a theme, and then he/she is expected to develop and explore artistic pieces in their own personal style. Students will have full range in choice of media for each project that would best allow him/herself to express his/her idea including (but not limited to) pencils, pastels, ink, paint, watercolor, clay, or digital graphics. Students will mat their own work for display, and (optionally) learn how to photograph their work and create a digital portfolio that can be shared with prospective employers or college admissions counselors (if he/she should choose to pursue art after high school). Completion of a minimum of three major projects is required during this course and/or continuous work on smaller projects throughout the semester. This higher level of artwork is expected to be entered into various art shows during the school year.

524 Graphic Design 1

0.5 credit

Grade 10, 11, 12

Prerequisites: Art & Design 1, max 20 students

Career Pathways:



In this introduction to graphic design class, students will learn the principles of design and typography from a design industry professional while also learning how to use professional-grade design software on a Mac computer. Students will be introduced to the fundamentals of Adobe Illustrator and Photoshop software to create digital assignments including digital illustration, typography, photo editing, retouching images, and graphic layouts.

525 Graphic Design 2

0.5 credit

Grade 10, 11, 12

Prerequisites: Art & Design 1, Graphic Design 1; max 20 students

Career Pathways:



In this second-level graphic design course, students will further develop Adobe design software knowledge on a Mac computer. Students will apply learned fundamentals from level one to create more advanced digital assignments including digital illustrations, typography design, manipulating images in Photoshop, creating eye-catching layouts, packaging design, advertisements, and other real-life design projects.

529 3D Design

0.5 credit

Grade 10, 11, 12

Prerequisites: Art & Design 1

Career Pathways:



Different styles and methods of creating sculpture are covered in this course. Various sculpting methods are explored in a variety of media such as paper, plaster, air dry clay, and found objects. Historical sculptors will be discussed as new techniques and exploratory concepts are introduced. Project steps include idea generation, thumbnails, drawing multiple views, practice techniques and creation, and self-assessments and/or reflections. Selected artwork will be displayed in the school, the Berks County Art Show, and our Spring Art Show.

Business and Computer Technology

0.5 credit in Computer Science required

0.5 credit required in Financial & Career Concepts

724 Financial & Career Concepts *(previously Contemporary Living)*

0.5 credit

Grade 11, 12 (Required)

Career Pathways:



This mandatory, one-semester Personal Financial Literacy course fulfills the **Pennsylvania Act 35 of 2023** high school graduation requirement by equipping students with the essential skills needed to manage personal finances effectively throughout adulthood to achieve long-term financial stability. Aligned with the latest **PA Academic Standards for Personal Finance**, the curriculum covers critical domains including career planning through a mock interview experience, income, spending and budgeting, the mechanics of credit and debt management, and strategies for saving and investing. By the conclusion of this 0.5-credit course, students will be prepared to manage their personal resources effectively, make informed choices regarding major life purchases and retirement planning, and achieve personal financial stability throughout their lives.

603 Introduction to Computer Science:

0.5 Credits

Grade 9,10,11,12

Career Pathways:



Technology continues to change and provides opportunities for students. This interactive course takes a wide lens on computer science. Students will learn 21st century skills like problem solving, critical thinking, collaboration, communication and technology skills. Focusing on user centered design and applications, students will create apps, look at artificial intelligence and physical computing to apply the skills. Topics from the course we provide building blocks for future computer science and provide skills needed for other courses. This course will meet the computer science requirement needed for graduation.

609 Accounting

1 credit

Grade 10, 11, 12

Career Pathways:



This course introduces students to the fundamental principles of double-entry accounting, focusing on the systematic process of planning, recording, analyzing, and interpreting financial information. Students begin by mastering the accounting equation and analyzing how business transactions impact assets, liabilities, and owner's equity. The curriculum guides students through the complete accounting cycle, including journalizing transactions, posting to a general ledger, and implementing essential cash control systems like bank reconciliations. Advanced units transition into financial reporting, where students prepare work sheets, adjusting entries, and formal financial statements—such as Income Statements and Balance Sheets—to assess a proprietorship's fiscal health. The final chapters bridge these skills into merchandising accounting, introducing subsidiary ledgers for purchases and sales to prepare students for corporate financial management.

613 Business Law

0.5 credit

Grade 10, 11, 12

Career Pathways:



You will soon find Business Law to be one of your most valuable subjects. Study true situations that show how business and personal law impacts not only business, but the lives of young people and adults as well. Explore the fascinating analysis of legal situations. Criminal justice, crimes and crime prevention as well as personal injury law and juvenile justice are explored along with due process, our U.S. court system, consumer laws and everyday contract law. A hot debate section promotes thoughtful discussion of important legal issues. Analyze the effects of the media, including TV and the press, on legal issues, discuss the emerging area of the legal aspects of the Internet, and apply the law to real-life business situations. This course is a good match with Accounting I or HACC Accounting.

615 Advanced Computer Applications

0.5 credit

Grade 11, 12

Career Pathways:



Aspects of Introductory Computer Applications are enhanced, reviewed, and built upon in more detail. Word includes: sorting & calculating, customizing tables and creating charts, merging form documents, mailing labels, and envelopes, formatting columns and sections, formatting graphics and text boxes, working with long (CONTINUED)

documents, creating forms and customizing features. Excel includes: applying advanced formats to worksheets & charts, printing workbooks, using data lists, filtering & extracting data, working with analysis tools, importing, exporting & integrating data, using templates, working with multiple worksheets & workbooks, creating shared workbooks, creating outlines and subtotals, and working with graphics & embedded objects. Access includes: modifying table design, relationships in tables & queries, advanced form features, analyzing data, advanced queries, advanced report features, importing & exporting data, working with web features, and using advanced tools. Projects will be emphasized in this course although advanced terminology will be taught and used throughout. College-bound students should consider taking this course. (satisfies high school computer requirement)

619 Accounting II

1 credit

Grade 11, 12 (Weighted)

Prerequisite: High School Accounting I with a minimum grade of 85% or teacher recommendation.

Career Pathways:



This class is for students who have successfully completed the Accounting I course. This course focuses on accounting for a merchandising business organized as a corporation. We will cover more advanced accounting principles such as: cash receipt/payment transactions, petty cash, subsidiary ledgers, depreciation of plant assets, uncollectible accounts, inventories, payroll, notes payable and receivable, partnerships, corporate accounting, and ethics in accounting. Simulation projects will be completed in addition to completion of various workbook problems covering these advanced accounting principles.

621 Computer Programming I

0.5 credit

Grade 9, 10, 11, 12

Career Pathways:



This is a beginner course on computer programming utilizing the Python programming language. Students will concentrate upon fundamental programming concepts such as user input, printing, user interfaces, and logic flow with an emphasis upon the development of logical thinking and fundamental problem-solving concepts. Student evaluation will be based upon leveled programming projects designed to measure the student's problem-solving ability and command of language syntax.

623 Web Page Design

0.5 credit

Grade 9, 10, 11, 12

Career Pathways:



This course seeks to acquaint the student with the concepts involved in Internet research and web page design. Students will learn to create web pages utilizing Adobe Dreamweaver to create sites using HTML code. Students will be introduced to JavaScript to allow for more functionality in websites. They will also learn how to add CSS code to allow for more flexibility to add different styles and looks to a site. Students will also learn how to enhance pictures and create projects in Adobe Photoshop to add to their websites.

624 AP Computer Science Principles

1 credit

Grade 11, 12 (Weighted)

Prerequisite: 1) Successful completion of either Computer Programming I or Computer Science Essentials or both; 2) Approval of both the computer science teacher and school counselor. Students will be required to take the AP exam.

Career Pathways:



AP Computer Science Principles is an introductory, college-level course that explores the foundational concepts of computer science. This course emphasizes creativity, problem-solving, and collaboration to develop computational thinking skills and a broader understanding of how technology impacts society. Students will gain hands-on experience with programming, algorithms, data analysis, the internet, and cybersecurity. They will also investigate how computing innovations shape our world and address ethical concerns related to technology. Through engaging projects, students will apply their knowledge to real-world challenges, such as creating apps or analyzing large datasets. The course prepares students for the AP Computer Science Principles Exam and provides a strong foundation for further study in computer science and related fields.

630 Marketing

0.5 credit

Grade 10, 11, 12

Career Pathways:



This course will take you on a step-by-step journey through the exciting world of marketing. Students will learn about the key functions of marketing and how those functions are applied to the marketing industry. Some topics covered are: Marketing Services, products, Public Images, and Recreation Marketing.

634 Introduction to Business

0.5 credit

Grade 9, 10, 11, 12

Career Pathways:



Business is everywhere, whether you want to major in business in college, own your own business, or become a doctor, lawyer, teacher, or work at home. Everything you do involves budgeting, managing money, and making informed decisions in order to spend your money wisely. This course introduces you to the world of accounting, law, business math, marketing, stocks, insurance, retirement, and careers.

635 Entrepreneurship

.5 Credit

Grade 10, 11, 12

Prerequisite: One prior business course.

Career Pathways:



Entrepreneurship students will run a real business! This course will foster students' creative vision and their ability to recognize opportunities for creating a business. From ideation through actual sales, students will run a crafting business and develop skills such as product design/development, Marketing, and Accounting. Students will combine interpersonal skills with critical thinking, problem solving, hard work and dedication to bring their vision to life. Students will study and apply their knowledge of business principles to starting, operating and maintaining, and expanding a business.

710 Computer Science Essentials

1 credit

Grade 9, 10, 11, 12

Career Pathways:



Computer Science Essentials exposes students to a diverse set of computational thinking concepts, fundamentals, and tools, allowing them to gain understanding and build confidence. Students use visual, block-based programming and seamlessly transition to text-based programming with languages such as Python® to create apps and develop websites, and learn how to make computers work together to put their design into practice. They apply computational thinking practices, build their vocabulary, and collaborate just as computing professionals do to create products that address topics and problems important to them.

139 Video Production I

0.5 credit

Grade 9, 10, 11, 12

Career Pathways:



This hands-on class is designed to give students an introduction into the exciting world of video technology. Areas of study will include the history of filmmaking, camera techniques and composition, screenwriting, storyboarding, and editing. Participants will design and create a commercial, a public service announcement, a music video, and a short feature film. The software programs utilized include Final Cut Pro X, GarageBand, and various Adobe programs.

143 Video Production II

0.5 credit

Grade 9, 10, 11, 12

Career Pathways:



This class will build upon the concepts from Video Production 1. Students will learn how to create a 3 Act story. Students will learn how to use a variety of camera shots and angles to enhance their recording skills. Students will get hands-on experience using advanced features in Final Cut Pro X and Adobe After Effects to add more features and enhance their editing skills.

Driver's Education

Course is a graduation requirement for all students

805 Driver's Education

0.25 credit

Grade 10 or age appropriate

Career Pathways:



Driver Education classroom provides a solid base of instruction in general vehicle knowledge and steps involved in obtaining a driver's permit as well as instruction in attitudes and safe driving practices. Students will study the effects of alcohol and drugs and the laws restricting use of these drugs and consequences of use while operating a vehicle.

Automobile insurance and motorcycle safety are some other topics that are included in this course. Decision-making skills and reducing risk while operating a vehicle will be the key focus. After completing the Driver Education classroom and roadwork, students may receive a PA Driver's License by applying for the Tulpehocken Driver Licensing program.

Driver Education Roadwork

No credit

After being enrolled in the Driver Education classroom, students 16 years of age who have a current PA learner's permit may sign up for the minimum six hour behind-the-wheel driver training course. Students may receive a PA Driver's License and Certificate of Driver Training after successfully completing the course. There is a \$50 lab training fee for this course.

English Language Arts

4 Credits Required

191 English 9 Honors

1 credit

Grade 9 (Weighted)

Prerequisite: 90% in 8th grade Language Arts and teacher recommendation.

Career Pathways:



This course is designed for the highly motivated student. A selection of short stories, poems, novels, and non-fiction will be read and discussed using a program called Studysync. The literature will include selections that are pertinent to the student seeking to further his/her education on the college level. Additionally, novel studies of Shakespeare's *Romeo & Juliet* and Homer's epic poem, *The Odyssey*, will be read, discussed, and evaluated. Other areas of study will include, but are not limited to grammar, composition, public speaking, and vocabulary building. Students will write a short expository research paper. Assessment will be based on a variety of written assignments, tests, projects, and presentations. A high level of student involvement and participation is expected. This course will also include preparation for the state assessment.

192 Academic English 9

1 credit

Grade 9

Career Pathways:



Academic English 9 covers a broad range of language arts and communication skills. Writing, research skills, reading, and public speaking will be emphasized in this hands-on, interactive course. The literature studied will encompass drama (*Romeo and Juliet*), poetry, epic poetry (*The Odyssey*), short stories, and non-fiction while utilizing a program called Studysync. Students will be engaged in discussion, journaling, and research throughout this course. Multimedia projects and presentations utilizing some of the latest technology will be assigned to demonstrate learning and understanding. This course will also include preparation for the state assessment.

101 English 10 Honors

1 credit

Grade 10 (Weighted)

Prerequisite: 90% Academic English 9 or English 9 Honors and teacher recommendation

Career Pathways:



This advanced study course is designed to help prepare students for pre-college testing and collegiate level English courses. Students will intensely analyze and discuss various forms of literature, poetry, and prose presented through a program called Studysync. Students will participate in large and small group discussions, based on a diverse selection of classic and contemporary fiction and non-fiction that may include, *Antigone*, *Farewell to Manzanar* and Holocaust related non-fiction. Out-of-class reading will be required to prepare for in-class discussions and analysis of literature. Independent reading and novel interpretation is strongly emphasized, as well as a large research writing unit. Students will also develop their writing abilities within various domains including: creative, persuasive, informative, expository, and personal. Students in this class will be expected to master story-related vocabulary, grammar and editing within the context of individual writing assignments, and various literary elements. Students will be evaluated on multiple levels including exams, quizzes, papers, projects, journals, cooperative learning group work, public speaking (formal and informal), and class participation. This course will also include preparation for the state assessment.

102 Academic English 10

1 credit

Grade 10

Career Pathways:



Students will explore the various literary genres—fiction, poetry, non-fiction, and drama through selected readings in each area in a program called Studysync. Selected literature will include socially relevant classical, modern, and multicultural works. Students will develop their writing skills by responding to reading selections through dramatizations, speeches, and writing personal, expository, persuasive, descriptive, and process explanation essays. The course will focus on grammar, vocabulary, speaking, listening and writing skills. Assessment of learning will be on multiple levels, including but not exclusive to exams, quizzes, essays, projects, journals, presentations and class participation. This course will also include preparation for the state assessment.

111 English 11 Honors

1 credit

Grade 11 (Weighted)

Prerequisite: 90% in Academic English 10 or English 10 Honors, and teacher recommendation.

Career Pathways:



This course is designed for highly motivated students willing to work toward improving all facets of their communication skills and preparing for postgraduate education. There will be preparation for the SAT that will include rigorous vocabulary study. The history of American literature will be studied the first semester and students will be asked to write in various modes. Students will be given a wide variety of classic and contemporary novels to choose from during the second semester. Students will engage in literature circles, where they will do research, journaling, discussions, and develop multimedia projects.

112 Academic English 11

1 credit

Grade 11

Career Pathways:



Academic English 11 covers the following areas: a survey of American literature; grammar; creative and discursive writing projects; SAT-type vocabulary development and a career search paper.

120 English 12 Honors

1 credit

Grade 12 (Weighted)

Prerequisite: 90% in English 11 Honors and teacher recommendation

Career Pathways:



English 12 Honors is a weighted course specifically designed for those preparing for a postgraduate education, especially if one is planning on a liberal arts field of study. The focus is on the history of the English language and British Literature – from the Middle Ages to Modern. There will be advanced SAT vocabulary preparation and studies of word origins. Students can expect to complete a fully cited research paper and several essays. Multimedia projects will be assigned and creative writing units explored. Students should bring into the class above average reading and writing skills, and a desire to be challenged.

122 Academic English 12

1 credit

Grade 12

Career Pathways:



Study of literature will include the genres of short stories, poetry and dramas. The selections will encompass British literature in various formats – individual novels, anthologies, and teacher handouts. The nonfiction novel *Tuesdays with Morrie* will be read and discussed. Grading will occur on tests, written reports, oral presentations, and projects.

Vocabulary study will include terms found in literature as well as Greek and Latin roots, affixes and terms. Students will be expected to find definitions and be able to use the terms in sentences. Vocabulary tests will be a culminating activity of each assignment. Students will write various essays and reports, including a research paper (term paper). Emphasis will be on correct set-up, spelling, grammar and syntax. Successful completion of a research paper (term paper) is required to pass this class.

124 AP Language and Composition

1 credit

Grade 11, 12 (Weighted)

Prerequisite: 90% or higher in English 10 Honors and a teacher recommendation. *Students will be required to take the AP exam following the completion of the course.*

Career Pathways:



The AP English Language and Composition course focuses on the development and revision of evidence-based analytic and argumentative writing, the rhetorical analysis of nonfiction texts, and the decisions writers make as they compose and revise. Students evaluate, synthesize, and cite research to support their arguments. Additionally, they read and analyze rhetorical elements and their effects in nonfiction texts—including images as forms of text— from a range of disciplines and historical periods.

English Electives

128 SAT Critical Reading Preparation

0.5 credit

Grade 10, 11, 12

Career Pathways:

This course is designed for students preparing to take the SAT for admission to college. Throughout this course, students will learn many strategies that will help them succeed when they take the test. Students will prepare for two sections of the SAT exam – critical reading and writing. We will cover many concepts including: sentence completion, critical reading, reading comprehension, grammar, writing process, and essay. As a class we will focus on applying these concepts to the SAT test. This is an intensive exam-preparation course, and students are required to do regular homework assignments. A fee will be charged for materials.

129 Drama I

0.5 credit

Grade 9, 10, 11, 12

Career Pathways:



This is an interactive class that explores both behind the scenes and the stage areas of theater. Be prepared to be the center of attention, write a script, create a set, and put it all in motion. There will be quizzes and assessments with projects to demonstrate your understanding of the theatrical arts.

132 Short Story Writing/Poetry

0.5 credit

Grade 9, 10, 11, 12

Career Pathways:



During the first half of the semester, students will read and discuss various genres of short stories with emphasis on the writer's styles and techniques. Each student will be expected to write his or her own creative short stories using the literary techniques studied in class. During the second half of the semester, students will study a wide range of poets and create a portfolio of original poetry. Each week members of the class will gather to share their work in an open forum that fosters supportive comments and analysis. Opportunities to submit works for publications and competitions will be explored and encouraged.

NCAA[®]

133 Shakespeare

0.5 credit

Grade 10, 11, 12

Career Pathways:



Explore the world of William Shakespeare and read his famous plays to see how they still work and relate to our lives today. Explore the question of authorship and view his works.

134 Contemporary Literature

0.5 credit

Grade 10, 11, 12

Career Pathways:



Do you love to read, but have difficulty relating to the authors studied in English class? Contemporary Literature is a class devoted to the books found on best seller lists – what the American public is buying and reading right now. Titles for this course will evolve to reflect current contemporary writing.

142 Public Speaking

0.5 credit

Grade 9, 10, 11, 12

Career Pathways:



This class is designed to help students hone public speaking skills. Topics to be covered include preparing a speech, understanding the audience, coping with stage fright, and perfecting pace, volume, intonation, and enunciation. The course focuses on the conventional speeches – informational, persuasive, oral interpretation, humorous, and demonstration. This is a self-improvement course that supports individuals who struggle with public speaking.

English as a Second Language

FOR IDENTIFIED STUDENTS ONLY

The Tulpehocken Area School District provides ESL tutorial assistance for all students identified as non-English speaking or Limited English Proficient. These students are identified through use of the following: student records, home language survey, parent information, teacher interview and observation, referral, informal assessment, and language proficiency tests. For further information, please contact the building principal or school counselor.

Family and Consumer Science

.5 credit required in Financial & Career Concepts – 724

725 Culinary Foundations

0.5 credit

Grade 9, 10, 11, 12

Career Pathways:



This introductory course provides students with the essential skills and knowledge for success in the kitchen. Students will explore fundamental cooking techniques, food safety and sanitation, nutrition principles, and basic meal preparation. Through hands-on experiences, they will learn knife skills, proper use of kitchen equipment, and methods for preparing a variety of recipes. Emphasis will be placed on teamwork, organization, and applying culinary skills to create balanced and appealing meals. This course lays the groundwork for future exploration in culinary arts and related career paths.

726 Child Development

0.5 credit

Grade 9, 10, 11, 12

Career Pathways:



This course focuses on the physical, cognitive, emotional, and social development of children from prenatal stages through age five. Key units of study include developmental milestones, the importance of play and toy selection, the impact of media on children, health and safety practices, effective discipline strategies, child abuse awareness, and an introduction to early childhood education careers. Students will gain valuable insights into child development, preparing them for both personal and professional opportunities in child-related fields.

727 Textiles: Design and Production

0.5 credit

Grade 9, 10, 11, 12

Career Pathways:



Discover the timeless art of sewing in this introductory course. Students will learn how to operate a sewing machine, construct projects from start to finish, and repair or alter personal items. This course is perfect for students interested in fashion or interior design careers, as well as those looking to develop practical skills for stretching their clothing and accessories budget. Possible projects include creating pillowcases, decorative pillows, quilted square or patchwork pillow, tote bags, and learning techniques such as sewing a zipper.

730 Baking and Pastry Essentials

0.5 credit

Grade 9, 10, 11, 12

Career Pathways:



This hands-on introductory course focuses on foundational baking and pastry skills. Students will learn essential techniques for creating a variety of baked goods, including breads, cookies, cakes, and pastries. Key topics include food safety, precise measurements, ingredient functions, budgeting, and creative presentation. Throughout the course, students will engage in practical food labs, with highlights such as decorating cakes, designing a gingerbread house from scratch, and completing a pumpkin roll fundraiser. This course is perfect for students interested in culinary arts or those seeking to build practical baking skills for both personal and professional use.

731 Culinary Nutrition for Health

0.5 credit

Grade 9, 10, 11, 12

Career Pathways:



This course explores the vital connection between nutrition, exercise, and overall health. Students will learn about balanced food choices, weight management strategies, and how to prepare wholesome meals and snacks. Emphasis is placed on developing lifelong wellness habits through practical activities and personalized goal-setting. By the end of the course, students will create their own customized wellness plan, integrating nutrition and fitness principles to support a healthy lifestyle.

733 Interior Design

0.5 credit

Grade 9, 10, 11, 12

Career Pathways:



This course introduces students to the foundational elements and principles of design, with a focus on their application to housing and interior spaces. Students will explore various furniture and housing styles commonly found in the United States, gaining insight into historical and contemporary trends. Through hands-on projects, students will apply design concepts to create personalized and innovative interior design solutions. This course is ideal for students interested in careers such as architecture, interior design, real estate, or home staging.

Mathematics

Refer to the Graduation Requirements page for Math requirements

404 Geometry Honors

1 credit

Grade 9, 10, 11 (Weighted)

Prerequisite: 90% in Algebra I and teacher recommendation

Career Pathways:



The course is intended for students with strong problem-solving skills. They will study relationships of perpendicular and parallel lines, congruent triangles, properties of triangles, quadrilaterals, similarity, transformations, right triangles, trigonometry, circles, area of polygons, area of circles, surface area and volume. The course is similar to academic geometry only at a much faster pace, and students are expected to learn through exploration as well as traditional didactic methods.

405 Academic Geometry

1 credit

Grade 10, 11, 12

Prerequisite: Completion of Algebra I and teacher recommendation

Career Pathways:



The course is intended for the college bound student. Students will study relationships of perpendicular and parallel lines, congruent triangles, properties of triangles, quadrilaterals, similarity, right triangles, circles, area of polygons, area of circles and surface area and volume. An algebraic approach as well as the coordinate system will be utilized to explore geometric concepts.

406 Algebra II Honors

1 credit

Grade 9, 10, 11 (Weighted)

Prerequisite: 85% in Algebra I and teacher recommendation

Career Pathways:



This course uses the skills learned in Algebra I to develop new problem-solving skills. Linear and quadratic functions are studied with an emphasis on critical thinking skills. The properties of real numbers are expanded to include irrational numbers with imaginary and complex numbers being introduced as possible domains.

(CONTINUED)

Systems of linear and quadratic open sentences are solved using different techniques with the emphasis on which technique is most appropriate for a given problem. Factoring will be reviewed and applied to solving polynomial equations, simplifying rational expressions, solving fractional equations and word problems. Solving quadratic and polynomial equations using factoring, completing the square, the quadratic formula, and depressed equations will be applied to word problems. Quadratic functions and conic sections are studied graphically as well as classically. Law of exponents will be expanded to include real number exponents, which will prepare students for the study of logarithms. Ratios and proportions are used to solve variation problems; synthetic division, determinants and algebraic theorems are used to solve polynomial equations. To enhance long term learning, cumulative exams will be given using an SAT format. This is a very challenging course that requires a strong foundation from Algebra I and Geometry Honors. Problem solving skills and analytical thinking skills are stressed throughout this course. Algebra II Honors prepares students for Pre-Calculus. A TI-84 Plus Calculator is recommended for use in this course.

407 Academic Algebra II

1 credit

Grade 9, 10, 11, 12

Prerequisite: Successful completion of Keystone Algebra I

Career Pathways:



This course uses the skills learned in Algebra I to develop new problem-solving skills. The course starts with a review of simplifying numerical and variable expressions, solving linear equations and inequalities and solving word problems. Open sentences are expanded to include combined inequalities and absolute values. Linear equations in 2 unknowns are solved graphically and algebraically, leading to the solving of systems of linear equations and inequalities. Since several techniques can be used to solve systems, the emphasis will be placed on which method is most appropriate to use. Factoring will be reviewed and applied to solving polynomial equations, simplifying rational expressions, solving fractional equations and word problems. The set of real numbers is expanded to include irrational numbers with imaginary and complex numbers being introduced. Completing the square and the quadratic formula are used to solve quadratic equations. Linear and quadratic functions will be developed and applied to word problems. This is a challenging course based on a solid foundation from Algebra I. To enhance long term learning, cumulative exams will be given using an SAT format. Problems solving skills and analytical thinking skills are stressed throughout this course.

409 College Bound Statistics

1 credit

Grade 11, 12

Prerequisite: 80% in Ac Algebra II, and teacher recommendation; OR may be taken concurrently with Pre-Calculus

Career Pathways:



Topics covered will include the nature of probability and statistics, frequency distributions, and graphs, data description, probability and counting rules, discrete probability distributions, normal distributions, confidence intervals and sample size, hypothesis testing, testing the difference between two means, correlation and regression Chi-Square and Analysis of Variance. Students need a graphing calculator. A TI-84 Plus or TI-83 Plus Calculator is recommended for use in this course.

412 Pre-Calculus

1 credit

Grade 11, 12

Prerequisite: 80% in Ac Algebra II & 80% in AC Geometry

Career Pathways:



The course is designed so that students can understand advanced mathematical concepts. Students should have successfully completed Algebra I, Geometry, and Algebra II. Students should be comfortable working within the Coordinate System, linear equations and inequalities, lines in the coordinate plane, solving equations graphically, numerically, and algebraically. Students will acquire skills of functions by modeling and equation solving. Students will explore the following types of functions: polynomial, power, rational, exponential, logistic, logarithmic and trigonometric. Students will study analytic trigonometry as well as vectors, parametric equations and polar equations. Students should purchase a TI83 Plus or TI 84 Plus graphing calculator.

413 Calculus Honors

1 credit

Grade 11, 12 (Weighted)

Prerequisites: 90% in Pre-Calculus and teacher recommendation.

Career Pathways:



Calculus is the study of limits, differentiation and integration involving functions. It incorporates the use of algebraic concepts, geometry, trigonometry, and functions to increase the student's mathematical maturity. Students will acquire the skills necessary to analyze graphs and slopes of curves, area under curves and the application and use of these topics. Graphing technology is applied in this class, and a TI-84 Plus graphing calculator is required for this course.

414 Pre-Calculus Honors

1 credit

Grade 10, 11, 12 (Weighted)

Prerequisite: 90% in Algebra II Honors and/or teacher recommendation.

Career Pathways:



The course is intended for the exceptional math student. The course is geared to prepare students for the rigors of advanced placement calculus. Students should have successfully completed Algebra I, Geometry Honors, and Algebra II Honors with a 90% or better. The course encourages graphical, numerical and algebraic modeling of functions as well as problem solving, conceptual understanding, and facility with technology. The course helps students to truly understand the fundamental concepts of algebra, trigonometry, and analytic geometry. It foreshadows important ideas of calculus and shows how algebra and trigonometry can be used to model real-life problems. Students should purchase a TI83 Plus or TI 84 Plus graphing calculator.

415 AP Pre-Calculus

1 credit

Grade 10, 11, 12 (Weighted)

Prerequisite: Honors Algebra II & Honors Geometry. Students will be required to take the AP exam.



Career Pathways:



In AP Precalculus, students explore everyday situations using mathematical tools and lenses. Through regular practice, students build deep mastery of modeling and functions, and they examine scenarios through multiple representations. They will learn how to observe, explore, and build mathematical meaning from dynamic systems, an important practice for thriving in an ever-changing world.

Precalculus can fulfill a math requirement at a diverse range of colleges and universities, including the majority of public institutions. The course also offers a valuable tool for guiding math and science placement for newly enrolling students. College Board is working with colleges and universities to expand credit policies and ensure that AP Precalculus sets a strong foundation for college success.

416 AP Calculus AB

1 credit

Grade 11, 12 (Weighted)

Prerequisite: 95% in Pre-Calculus or 90% in Pre-Calculus Honors and teacher recommendation. Students will be required to take the AP exam.



Career Pathways:



AP Calculus AB is the rigorous study of derivatives, rates of change and integration involving power, exponential, logarithmic, trigonometric, parametric and inverse functions. This class requires an extensive knowledge of algebraic concepts as well as geometry and trigonometry. Graphing calculators will be utilized to supplement learning. Practical applications of calculus and their uses are a vital part of this class and understanding the reasons why and how calculus works is essential.

418 AP Calculus BC

1 credit

Grade 12 (Weighted)

Career Pathways:



This course is designed as a continuation of the AP Calculus AB course. AP Calculus BC includes a review of all Calculus AB topics. In addition, the course will include the following topics:

- Parametric, polar, and vector functions.
- Analysis of planar curves given in parametric, polar, and vector form.

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- Geometric interpretation of differential equations via slope fields.
- Numerical solution of differential equations using Euler's method.
- Derivatives of parametric, polar, and vector functions.
- Antiderivatives by simple partial fractions.
- Polynomial Approximations and Taylor Series, Maclaurin Series, and Power Series.

420 Keystone Algebra I

1 credit

Grade 9, 10, 11,

Career Pathways:



This is a course based directly on the rigorous Pennsylvania Common Core Standards. The key content involves operations with real numbers and expressions, patterns and functions, rate of change, polynomials, data analysis and probability, as well as solving, writing, and interpreting one variable equations, one variable inequalities, systems of equations, and systems of inequalities. Students taking Keystone Algebra will be assigned to a 0.5 Algebra Extensions class or a 1.0 Algebra Extensions class to provide additional academic reinforcement/support depending on student need.

491 Personal Finance

1 credit

Grade 11, 12

This course is not designed for the college bound student.

Career Pathways:



Students will learn basic money management skills. They will calculate gross and net income, which involves calculating deductions and paying taxes. Next, they will see how far their money will stretch by taking a look at budgeting and recordkeeping. They will also discuss checking and savings accounts and how to manage deposits, withdrawals and interest. Students will examine how stores set prices and offer coupons and rebates. They will learn how to comparison shop in order to find the best buys. They will discuss how to handle credit and investigate loans. Students will focus on costs associated with vehicle transportation and owning a home, such as making mortgage payments. Finally, students will focus on the cost of health insurance, life insurance premiums and investments. The class will determine how much material is covered and the order in which the topics are covered.

492 AP Statistics

1 credit

Grade 12 (Weighted)

Prerequisite: 85% in Pre-Calculus Honors or teacher recommendation. Students will be required to take the AP exam.

Career Pathways:



This course is geared for the motivated learner. Topics covered will include construction, interpreting, summarizing and comparing graphical displays of univariate and bivariate data, planning and conducting surveys and experiments, probability, random variable, the Normal Distribution, sampling distributions, and statistical inference through the use of confidence intervals and hypothesis tests.

494 SAT Math Preparation

0.5 credit

Grade 10, 11, 12

Career Pathways:



SAT Prep is a course designed to help prepare students for the SAT test. In addition to reviewing the basic verbal and mathematical skills assessed on the SAT test, students have access to test-taking strategies specific to the exam, real student work samples with explanations, grading rubrics for peer and self-assessment, practice tests with complete multiple-choice assessments, essays prompts, and study resources. Instruction, followed by collaborative, guided, and independent practice, provides the foundation for the course.

Music

541 Band

0.5 credit

Grade 9, 10, 11, 12

Career Pathways:

The high school band and instrumental music program is designed to advance the playing and music reading ability of student instrumentalists in grades nine through twelve. Students receive the opportunity to perform music of varied styles at 2 to 3 public concerts each year. Attendance at all rehearsals, band sectionals, and concerts are a class requirement. Students may elect to participate in non-auditioned and auditioned county and district festival events. This class counts towards the elective requirement.

Students who elect to be part of the extracurricular marching band learn the skills of performing popular music in a visual field show at soccer games, marching band exhibition shows, and parades. All students that participate in marching band are required to participate in concert band.

542 Chorus

0.5 credit

Grade 9, 10, 11, 12

Career Pathways:

Chorus is a performing ensemble for those students who enjoy singing. Good vocal technique will be learned as music of many styles is rehearsed and learned in preparation for 2-3 public concerts. Performance in these concerts is required for chorus members. This class counts towards the elective requirement.

Chorus members also have the opportunity to audition for and participate in show choir, musical, and county/district choral ensembles.

543 Music Theory

0.5 credit

Grade 9, 10, 11, 12

Career Pathways:



This course is designed for the average student to take the first steps in learning the basics of music theory. The class will start with pitch names and basic rhythms and progress to the various types of chords. There is also an ear training portion of this course in which students are taught to hear melody, chords, and intervals. There is no prerequisite to this class, although it is strongly recommended that students have some experience with the reading of music notation and/or a musical background of performance on an instrument or voice.

544 Beginning Guitar

0.5 credit

Grade 9, 10, 11, 12

Career Pathways:



This course will introduce you to the basics of acoustic or electric guitar playing. Students will learn the parts of the guitar, tuning, and how to play melodies and chords. Students will also learn how to read both traditional musical notation and TAB notation. The repertoire will be selected from folk, pop, and rock styles.

549 Advanced Music I

0.5 credit (Independent Study)

Grade 10, 11, 12

Prerequisite: Band and/or Chorus plus at least one or more of the following courses: Keyboard I, Music Theory, Jazz Ensemble or Show Choir.

Career Pathways:

Do you have an audition coming up soon? Maybe it's a college audition, maybe a county or district audition or maybe you just want to learn a new skill. Advanced Music is for serious music students who have met the prerequisites and who wish to develop their musical skills. Students will be expected to work in a self-directed style which will include independent work and practice time. Sight-reading and auditioning will be emphasized. Other topics will include music theory, keyboard, jazz improvisation, composition, and MIDI. This class is suggested for students who are thinking about furthering their study of music at the college level. Students are expected to audition for either County Band or County Chorus.

550 Keyboard Class I

0.5 credit

Grade 9, 10, 11, 12

Career Pathways:



Have you always wondered what it would be like to actually play that keyboard that's lying around your house? This class is for you! Learn the basics of playing the piano/keyboard. No knowledge of music reading is necessary – just a desire to learn and a willingness to try. Some practice time outside of class will be expected.

551 Keyboard Class II

0.5 credit

Grade 9, 10, 11, 12

Prerequisite: A final grade of “C” or better in Keyboard Class I or a minimum of 1 year of private piano lessons.

Career Pathways:



This course will develop more advanced keyboard skills. Students will focus on more advanced concepts such as expression and style. Piano technique and music reading skills will be refined and improved as different styles of music are learned. Class activities will include playing the keyboard, recording to the keyboard, and using GarageBand software. This class is for students with some piano experience.

554, 556 Advanced Music II - Independent Keyboard

0.5 credit (Independent Study) Keyboard 2 or permission of the teacher.

Grade 10, 11, 12

Career Pathways:

Prerequisite: Band and/or Chorus plus at least one or more of the following courses: Keyboard I, Music Theory, Jazz Ensemble or Show Choir. Students are NOT required to take Advanced Music I before this class.

Do you have an audition coming up soon? Maybe it’s a college audition, maybe a county or district audition or maybe you just want to learn a new skill. Advanced Music II is for serious music students who have met the prerequisites and who wish to continue to develop their musical skills. This class will continue to develop the skills and concepts that were explored in Advanced Music I. Students will be expected to work in a self-directed style which will include independent work and practice time. Sight-reading and auditioning will be emphasized. Other topics will include music theory, keyboard, jazz improvisation, composition, and MIDI. This class is suggested for students who are thinking about furthering their studies of music at the college level. This class will involve individually created projects. Students are expected to audition for either County Band or County Chorus. (offered as Independent Study – see instructor)

Independent Keyboard

This course will develop advanced keyboard skills. Students will work independently on music of various styles with assistance from the instructor as needed. Piano technique and music reading skills will be further refined. This class is for students with self-discipline and self-motivation.

Science

Refer to the Graduation Requirements page for Science requirements

304 Environmental Science

1 credit

Grade 9

Career Pathways:



Environmental Science is designed to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving and/or preventing them. The curriculum includes topics such as an introduction to earth processes, ecology, populations, land, air and water quality and pollution, climate change, biodiversity and endangered species, mineral and energy resources, and our health and our future. This curriculum will address the needs of all learners through an interesting, problem-based approach to learning about human impact on the environment.

306 Honors Environmental Science

1 credit

Grade 9

Prerequisite: 85% in 8th grade science and teacher recommendation

Career Pathways:



This is a more in-depth course in environmental science, recommended for those students who may wish to pursue a science-related field of study or are college bound. Environmental Science is designed to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving and/or preventing them. The curriculum includes topics such as an introduction to earth processes, ecology, populations, land, air and water quality and pollution, climate change, biodiversity and endangered species, mineral and energy resources, and our health and our future. This curriculum will address the needs of all learners through an interesting, inquiry and problem-based approach to learning about human impact on the environment.

311 Academic Chemistry

1.2 credits

Grade 10, 11, 12

Prerequisite: Algebra I & Biological Concepts/ Co-requisite: Algebra II.
Recommended for college bound students.

Career Pathways:



Academic Chemistry is a laboratory-oriented course designed to acquaint students with chemistry concepts such as: atoms, the periodic table, ionic and covalent compounds, chemical reactions, stoichiometry, and more. It is designed to develop critical thinking and analytical approaches to problem solving. Small research assignments will be completed to investigate applications of concepts. Cumulative exams will be administered. This course meets 7 periods per cycle, allowing one double period for lab, and will include weekly lab reports.

312 Chemistry Honors

1.2 credits

Grade 10, 11 (Weighted)

Prerequisite: Algebra II Honors, 85% Biological Concepts Honors or 90% Biological Concepts. Co-requisites of Algebra II Honors or Pre-Calculus Honors also recommended. Students completing Academic Chemistry may not register for this course.

Career Pathways:



Honors Chemistry is a laboratory-oriented course designed to acquaint students with chemistry concepts such as: atoms, the periodic table, ionic and covalent compounds, chemical reactions, stoichiometry, intermolecular forces, thermochemistry, and more. It is designed to develop critical thinking and analytical approaches to problem solving. Research assignments will be completed as well as a mandatory year-long portfolio project. Cumulative exams will be administered. This course meets 7 periods per cycle, allowing one double period for the lab, and will include weekly lab reports.

313 Chemistry II Honors

1.2 credits

Grade 11, 12 (Weighted)

Career Pathways:



Chemistry II Honors is an upper level second-year chemistry course that will stress independent and group learning. It is a college-bound course recommended for students interested in pursuing a major/career in science. Students will be expected to apply topics from their first year in Honors Chemistry/Academic Chemistry to more challenging topics. Additional topics and applications in chemistry will be discussed to further increase students' breadth and depth of knowledge. There will be an emphasis on developing problem solving and study skills. The class meets 7 periods per cycle, allowing for one double lab period.

321 AP Physics C: Mechanics

1.0 credits

Grade 12 (Weighted)

Prerequisite: 90% in Academic Physics or 85% Honors Physics, Honors Calculus or AP Calculus (may be taken concurrently)



Students cultivate their understanding of physics by developing models of physical phenomena through inquiry-based investigations using the AP curriculum. This course includes topics covered in a first semester, calculus based, college-level physics course, including kinematics, dynamics, circular motion, the universal law of gravitation, simple harmonic motion (simple pendulum and mass-spring systems), impulse, linear momentum, conservation of linear momentum (collisions), work, energy, conservation of energy, rotational motion (torque, rotational kinematics and energy, rotational dynamics, and conservation of angular momentum), and thermodynamics.

322 Physics Honors

1 credits

Grade 11, 12 (Weighted)

Prerequisite: 90% in Academic Chemistry or 85% Chemistry Honors and 85% in Algebra II and Pre-Calculus. (Honors Pre-Calculus may be taken as a co-requisite.)

Career Pathways:



This course prepares a student to take a college level physics course. Students will learn about the major physics concepts that they would see in a first-year college physics course, including forces and motion, work, energy, power, systems of particles and linear momentum, rotation, oscillations, and gravitation. Other physics topics that may be covered as time allows include electricity and magnetism, waves and sound, light and optics, and modern physics. Laboratory work that fosters inquiry and analytical skills is essential to this course.

323 Integrated Science

1 credit

Grade 11, 12

Career Pathways:



This course is designed for students who do not plan on pursuing college. Students will be provided with practical and relevant knowledge of chemical and physical sciences with excursions into biological connections. This course may not be taken if credit for Honors or Academic Chemistry/ Physics already has been earned.

325 Academics Physics

1 credit

Grade 11, 12

Prerequisite: 80% in Algebra II. Corequisite of Pre-Calculus recommended. Recommended for college bound students.

Career Pathways:



This course is designed for college bound students looking to prepare themselves for a college level science class. Academic Physics will require critical thinking and logic to solve real world problems. Students require a strong foundation of Algebra I, Algebra II, and basic Geometry and Trigonometry. This course will closely look at the concepts of mechanics and will also examine some of the laws that govern sound, electricity, magnetism, optics, and relativity. Laboratory work that fosters inquiry and analytical skills is essential to this course.

391 Biological Concepts Honors **This course will run in the future, not 2026-2027*

1.2 credits

Grade 9 (Weighted)

Prerequisite: 90% in 8th grade science, 85% in 9th grade science and teacher recommendation.

Career Pathways:



Biology Honors is designed for students with exceptional abilities and high achievement levels. Students will acquire an understanding of the curriculum covered and tested on the Keystone Biology Exam along with a more in-depth study of topics via laboratory activities and inquiry-based techniques. This class meets 7 periods per cycle, allowing for a double lab period. Requirements include formal written lab reports and a yearlong portfolio project which will count as 10% of their grade for the year. Students will also be required to take a cumulative Mid-Term and Final Exam.

392 Biological Concepts

1 credit

Grade 10

Career Pathways:



This science course is a requirement for all students. Students will acquire an understanding of the curriculum covered on the Keystone Biology Exam. This course is aligned with the state standards and students will be prepared to take the test at the end of this course.

Science Electives

896 Human Anatomy and Physiology

0.5 credit (Weighted)

Grade 11, 12

Prerequisite: Wellness and Biology with a minimum grade of 90%. Co-requisites: Chemistry 85%.

Career Pathways:



This honors-level course is designed for the student with an interest in pursuing a career in a health-related field. The course will concentrate on the anatomy and physiology of body systems, including their orientation and organization; support and movement; regulation and maintenance; and integration of systems. Students will apply the principle of physiology to human health and wellness and evaluate the applications and career implications of physiology and anatomy principles. Students will be expected to take responsibility for reading and learning textbook material as it is assigned. Independent in-class research/study is also an integral part of the course (i.e. The careful study and memorization of labeled anatomical diagrams).

899 Human Anatomy and Physiology II

0.5 credit (Weighted)

Grade 11, 12

Prerequisite: 85% in Human Anatomy and Physiology I.

Career Pathways:



This honors-level course will focus on the anatomy and physiology of the cardiovascular, respiratory, digestive, and nervous systems with possible exposure to the endocrine, lymphatic, urinary, and reproductive systems. A survey of each organ system is presented with initial emphasis upon its anatomy, followed by an in-depth study of its physiology. Students will be expected to take responsibility for reading and learning textbook material as it is assigned. Independent in-class research/study is also an integral part of the course (i.e. The careful study and memorization of labeled anatomical diagrams).

Social Studies

4.0 credits are required for graduation

201 World Cultures Honors

1 credit

Grade 10 (Weighted)

Prerequisite: 90% in US History II Honors; and teacher recommendation



Career Pathways:



Students will engage in a comprehensive study of global cultures to develop an understanding of diverse cultural perspectives and establish meaningful connections to their own lives. Emphasis will be placed on the exploration of geography, government structures, historical contexts, religious beliefs, and cultural practices. An in-depth analysis of various cultural aspects such as art, music, cuisine, fashion, and literature will be conducted to foster a holistic understanding of global diversity. Students will be expected to actively participate in class discussions, group projects, and detailed research. This course has an added focus on analyzing and interpreting historical events through independent reading and advanced writing assignments.

203 World Cultures

1 credit

Grade 10

Career Pathways:



Students will engage in a comprehensive study of global cultures to develop an understanding of diverse cultural perspectives and establish meaningful connections to their own lives. Emphasis will be placed on the exploration of geography, government structures, historical contexts, religious beliefs, and cultural practices. The curriculum will be organized into units based on different world regions. An in-depth analysis of various cultural aspects such as art, music, cuisine, fashion, and literature will be conducted to foster a holistic understanding of global diversity.

211 United States History II

1 credit

Grade 9

Prerequisite: Students will have successfully completed US History I in 8th grade.

Career Pathways:



Students will be expected to complete readings, class discussions, and hands-on projects on various historical topics. The emphasis of this course is a study of the history of the United States from the late 1800's to the present. Main topics will include the Industrial Revolution, Immigration, the Progressive Era, the two World Wars, the Great Depression, the New Deal, the Civil Rights Era, the Cold War, the Vietnam Era, and the new challenges of contemporary times. Varied approaches are utilized to establish links between past and present America, creating a framework for students to make good choices as citizens and future leaders of our nation.

211H United States History II Honors

1 credit

Grade 9 (Weighted)

Prerequisite: Students will have successfully completed US History I in 8th grade with at least an 93% average for the year, or a 90% or higher in US History I Honors. Students will also need to receive a teacher recommendation to enter the course.

Career Pathways:



Students will be expected to complete readings, class discussions, and various written and oral reports on different historical topics. The emphasis of this course is a study of the history of the United States from the late 1800's to contemporary times. Main topics will include the Industrial Revolution, Immigration, the Progressive Era, the two World Wars, the Great Depression, the New Deal, the Civil Rights Era, the Cold War, the Vietnam Era, and the new challenges of contemporary times. Varied approaches are utilized to establish links between past and present America, creating a framework for students to make good choices as citizens and future leaders of our nation.

215 AP US Government and Politics

1 credit

Grade 11 (Weighted)

Prerequisite: 90% in World Cultures Honors; and teacher recommendation

Career Pathways:



This course is a full year advanced placement course. AP U.S. Government and Politics is an intensive study of the formal and informal structures of government, and the processes of the American Political system with an emphasis on policy making and implementation. The course is a "college level" course that is designed to

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prepare students to take the AP exam in May. All students in the AP course are required to take the AP exam. The course content will follow the outline prepared by the College Board. Topics to be covered will include: Constitutional Underpinnings, Political Beliefs and Behaviors, Political Parties, Interest Groups and Mass Media, Institutions of National Government, Public Policy, and Civil Rights and Civil Liberties. The pace and depth of the course will model an introductory college course. In order for a student to be successful in a “college-level” course, it is essential that students take responsibility for reading and learning textbook material as it is assigned. Students are expected to complete reading prior to class discussions.

Knowledge of contemporary political events and political science “language” is essential for the analytical focus that must be exhibited when discussing and writing about politics. It is recommended that students expose themselves to as many political types of media as possible. Some examples include: local and national newspapers and magazines, national news internet sites, and television news shows that discuss and explore politics.

216 US Government

1 credit

Grade 11

Prerequisite: Students will have successfully completed 10th grade World Cultures

Career Pathways:



Students will study the operations, structures, and procedures of government at the local, state, and national levels. Students will also build on the knowledge, skills and attitudes developed in previous social studies courses. Students will examine the rights, privileges and responsibilities of citizenship in our representative democracy. Throughout the course, current events will be discussed as related to themes of study.

216H US Government Honors

1 credit

Grade 11 (Weighted)

Prerequisite: 90% in World Cultures Honors; and teacher recommendation

Career Pathways:



Students will study the operations, structures, and procedures of government at the local, state, and national levels. Students will also build on the knowledge, skills and attitudes developed in previous social studies courses. Students will examine the rights, privileges and responsibilities of citizenship in our representative democracy. Students are expected to complete reading prior to class discussions. Students will be regularly asked to complete written opinion papers and summative papers related to discussion topics. Students will be exposed to many political types of media. Throughout the course, current events will be discussed as related to themes of study.

223 Economics

0.5 credit

Grade 12

Career Pathways:



This course develops an awareness of basic economic principles and theories in modern America. In addition to studying the free enterprise system, this course will introduce the student to world problems directly related to economics. Concepts such as supply and demand, inflation, employment, monetary and fiscal policy, and investments will be covered. This is a required course for all seniors. Major projects include an entrepreneur analysis and a stock market project. All students will be expected to prove an understanding of key course concepts.

224 Economics Honors

0.5 credit

Grade 12 (Weighted)

Prerequisite: 90% in U.S. Government and teacher recommendation

Career Pathways:



This course develops an awareness of basic economic principles and theories in modern America. Fundamentals will be covered and explored in depth. Our free enterprise system will be explored as well as concepts such as supply and demand, inflation, employment, monetary and fiscal policy, investments, and corporate welfare. Major projects include an entrepreneur analysis and a stock market project, as well as other projects. Concepts will be explored with an emphasis on analysis and evaluation.

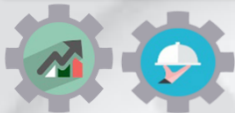
224AP AP Macro Economics

1 credit

Grade 12 (Weighted)

Prerequisite: 90% or better in their preceding AP Government or US Government Honors and teacher recommendation.

Career Pathways:



This course is a full year Advanced Placement course. AP Micro/Macroeconomics is an intensive study of the formal and informal structures of the economic systems of the US and throughout the world, and the processes of the American economic system with an emphasis on policy making and implementation. The course will also look at world markets and how economies compare, interact, and are interconnected with the US economy. The course is a “college level” course that is designed to prepare students to take the AP exam in May. All students in the AP course are required to take the AP MACROECONOMICS exam. The course content will follow the outline prepared by the College Board. Topics to be covered will include: Basic Economic Concepts, the Nature and Function of Product Markets, Market Failure and the Role of Government, Measurement of Economic Performance, National Income and Price Determination, and the Financial Sector. The pace and depth of the

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course will model an introductory college course. In order for a student to be successful in a “college-level” course, it is essential that students take responsibility for reading and learning textbook material as it is assigned. Students are expected to complete reading prior to class discussions. Knowledge of contemporary economic issues and economic vocabulary is essential for the analytical focus that must be exhibited when discussing and writing about Macroeconomics. It is recommended that students expose themselves to as many economic types of news media as possible. Some examples include: local and national newspapers and magazines, national news internet sites, and television news shows that discuss and explore economics. *All students in the AP course are required to take the AP exam.*

Social Studies Electives

200 Current World Affairs

0.5 credit

Grade 10, 11, 12

Career Pathways:



Students will analyze contemporary issues and their effects on everyday life in order to teach students to think critically and be well informed members of a constantly changing society. Major topics will include world political situations, social issues, education, crime and punishment, moral issues, minority issues, equal rights, and geography.

210 Berks County Local History

0.5 credit

Grade 10, 11, 12

Career Pathways:



This elective allows students to study the unique local history of Berks County Pennsylvania starting with the founding of the county in 1752. Students will use various resources to understand how the early settlers and local Native American tribes coexisted. The course will then progress chronologically to look at how Berks County and its people influenced historical events like the American Revolution, the Civil War, the Industrial Revolution, and the county's role in the 20th century. Students will also learn about various other events and places in Berks County history that no longer exist like local amusement parks, resorts, movie theaters, radio and television stations. They will also learn about the creation of Blue Marsh Lake and the demise of some local communities as a result of the lake. Students will enhance their historical research skills in this course by conducting in-depth research on a well-known Berks County resident, event, or place in our local history. Students will learn more about how Berks County's history influenced our nation's history.

225 Problems of Democracy

0.5 credit

Grade 10, 11, 12

Career Pathways:



The Problems of Democracy course seeks to develop an awareness of the problems and issues prevalent in our society. The problem-solving approach is used in reference to American legal history, domestic and consumer problems, and the personal, social, economic and political forces that influence American life. Social issues such as family violence, stress, sexual harassment, racism, alcohol abuse, aging, poverty, and many others are examined in detail. Major projects include an elderly person interview and reaction papers. All students will be expected to prove an understanding of major course concepts.

226 Problems of Democracy Honors

0.5 credit

Grade 10, 11, 12 (Weighted)

Prerequisite: 85% in social studies class and teacher recommendation

Career Pathways:



The Problems of Democracy Honors course seeks to develop an awareness of key problems and issues prevalent in our society today. Our American Justice System and relevant legal issues will be examined as well as social issues such as family violence, sexual harassment, racism, alcohol abuse, poverty, minorities, discrimination, and ageism. Major projects include an elderly person interview and reaction papers. Concepts will be explored with an emphasis on analysis and evaluation.

228 Modern US History-Present

0.5 credit

Grade 10, 11, 12

Career Pathways:



This course will begin with the 1960's and progress through contemporary times. The Vietnam era, Watergate, Desert Storm, 9/11, and political implications through various presidencies will be highlighted. The course will focus on US culture and foreign affairs of the day.

230 Comparative Religions

0.5 credit

Grade 10, 11, 12

Career Pathways:



This course will explore five main world religions: Hinduism, Buddhism, Judaism, Christianity and Islam. Other religions will be briefly explored as well. Students will look at the history, belief systems, religious practices, music and art of each of the major religions. They will look at the role these religions have played and still play in history and government.

241 Sociology

0.5 credit

Grade 10, 11, 12

Career Pathways:



The sociology course investigates social problems that are prevalent in our society. It further deals with the concept of culture (present and past), cultural diversity, and our own cultural heritage. The subjects of roles, status, relationships, deviance, family life, divorce, values, social stratification, norms, and sexism are integral parts of this course. Major projects include a critical experience analysis and counseling projects. All students will be expected to demonstrate an understanding of major course concepts.

242 Psychology

0.5 credit

Grade 10, 11, 12

Career Pathways:



Psychology is an introduction to human behavior designed to offer an awareness of introductory psychological terminology and concepts. Major psychological theories and human development are explored. Demonstrations, presentations, and projects are used to emphasize key topics studied in class. This course is beneficial for any college-bound student who is considering a social science major.

244 Psychology II

0.5 credit

Grade 11, 12

Prerequisite - Psychology I

Career Pathways:



Psychology II is the second installment course to human behavior designed to offer a more in-depth look into behavioral psychology. Major psychological theories research is explored focusing on behavioral and cognitive theories and human growth and development. This course also will delve into abnormal behavior and psychological treatments and research. Demonstrations, presentations, and projects are used to emphasize key topics studied in class. This course is beneficial for any college-bound student who is considering a social science major- especially a Psychology Degree.

Special Education

The Tulpehocken Area School District provides Learning Support, Emotional Support, Life Skills Support and Gifted Support for identified students who qualify for and are in need of specially designed instruction. Referral, testing and placement in support services occur through an evaluation by a team of educational professionals. Any member of a student's educational team may request an evaluation to determine the need for special education services.

Students with identified disabilities are provided a continuum of special education service options addressing their Learning Support, Life Skills Support and Emotional Support needs. Instruction for exceptional students is modified to address their unique strengths and needs, providing for the development of basic academic skills and presenting content material in an adapted format. The student's program is reviewed or revised annually by an Individualized Education Program (IEP) Team, and students are recommended for direct instruction in a special education program when their learning needs cannot be adequately accommodated within the regular education program with supplementary aids and services. (often referred to as inclusion) Please contact the building principal or counselor with specific questions related to special education services.

Questions may also be directed to the Special Education office located in the Sara Kurr Zock Building of Tulpehocken Area School District, District Administration Offices at 27 Rehrersburg Road, Bethel, PA. Telephone number is 717-933- 4611, ext. 1021.

The following courses may be offered at the high school to meet the special needs of identified students:

- Emotional Support
- Autistic Support
- Support Study Hall
- Social Skills
- Foundations of Algebra
- Replacement ELA

Technology & Engineering

701 Computer Aided Design/Drafting (CADD)

0.5 credit

Grade 10, 11, 12

Career Pathways:



Through both individual and collaborative team activities, projects, and problems, students will solve problems as they practice common engineering design and development protocols such as project management and peer review. Students will develop skill in technical representation and documentation of design solutions according to accepted technical standards, and they will use current 3D design and modeling software (Autodesk Inventor) to represent and communicate solutions.

702 3D Printing and Laser Cutting

0.5 credit

Grade 10, 11, 12

Prerequisite: Must take CADD

Career Pathways:



Students will be using the engineering design process to solve real world problems using both the 3D printer and the Laser cutter. Students will be working individually and in teams to achieve results. They will document the engineering design process and communicate solutions. Students will use prior knowledge from CADD (Autodesk Inventor) to complete their projects.

703 Electrical

0.5 credit

Grade 9, 10, 11, 12

Career Pathways:



Students will learn about energy systems which will consist of renewable and non-renewable energy sources including solar, wind, water, and nuclear and their economic, social, and environmental impacts. Students will develop, produce, use, manage, and assess mechanical, and electrical, systems while studying the technical subsystems of simple machines and electronics. Students will also get experience with real life house wiring.

704 Robotics

0.5 credit

Grade 9, 10, 11, 12

Prerequisite: Must take Electrical

Career Pathways:



Students will have opportunities to research, design, build, test and evaluate solutions to electronics and programming that are needed for simple to complex robotics and industrial control. This course consists of a series of hands-on experiments and project challenges that will introduce students to robotic concepts using Vex Robotics and Robot-C Software.

705 Woodworking/Machines

0.5 credit

Grade 9, 10, 11, 12

Career Pathways:



The course is designed to provide students with a basic understanding of hand tools and machine woodworking techniques and processes in order to fabricate wood technology products. Students will start by learning the safety of all machines. They will use the engineering design process and the use of machines to make projects.

706 Construction Technology

0.5 credit

Grade 9, 10, 11, 12

Prerequisite: Must take Woodworking/machines

Career Pathways:



This course will develop a student's basic understanding of constructed products and structures. Students will develop, produce, use, manage, and assess construction systems while studying architectural design, structural engineering and carpentry. Students will also learn about bridge design. Students will be working individually and in groups to make scaled houses and bridges.

707 STEM Team

1 credit

Grade 10, 11, 12

Prerequisite: Must take 3D Printer/Laser Cutter or Robotics or Construction Technology (Potentially independent course)

Career Pathways:

Students will be competing in the Governor's State Stem Competition. The Governor's STEM Competition challenges student teams from across the state to research, design, and present a device or project that can make the quality of life better for Pennsylvanians by accomplishing a series of practical tasks that can fulfill real-world needs. Teams are required to partner with members of their local community or business to develop a solution to a real problem rooted in the community – this helps create an authentic experience for the students and provides opportunities for them to learn more about career pathways and employment opportunities based in STEM.

Wellness Education

1.0 credit required for Wellness, 1.0 credit required for Physical Education, 0.25 credit for CPR & First Aid required

812 Wellness 1

0.5 credit

Grade 9

Career Pathways:



This course will begin to provide students with a comprehensive understanding of wellness. Through a combination of lectures, discussions, hands-on activities, projects, and physical exercise, students will develop the knowledge and skills necessary to make informed decisions about their health and well-being. Health units include: introduction to wellness, benefits of physical fitness, nutrition, self-esteem, medicine & drugs of abuse, behavioral addictions, and the reproductive system & contraception. Physical activities will include: cooperative and team building activities, fitness testing, personal fitness, yard games, outdoor pursuits, team games, and net games. This course will empower students to adopt healthy habits and behaviors that will benefit them throughout their lives.

813 Wellness 2

0.5 credit

Grade 10

Career Pathways:



This course will complete the Tulpehocken student's comprehensive understanding of wellness. Through a combination of lectures, discussions, hands-on activities, projects, and physical exercise, students will develop the knowledge and skills necessary to make informed decisions about their health and well-being. Health units include: introduction to wellness two, factors impacting physical fitness, eating behaviors, mental & emotional health, substance addictions, and healthy relationships. Physical activities will include: cooperative and team building activities, fitness testing, personal fitness, yard games, outdoor pursuits, team games, and net games. This course will empower students to adopt healthy habits and behaviors that will benefit them throughout their lives.

814 Coaching and Officiating

0.5 credit

Grade 10, 11, 12

Career Pathways:



This course is designed to provide students with the knowledge and skills necessary to pursue roles in sport coaching and officiating. Students will have the opportunity to become certified as a PIAA official

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or junior official in one of the following sports: baseball, basketball, field hockey, soccer, softball, track and field, or wrestling. This course will cover topics such as coaching skills, sports knowledge, and leadership development. Students will be required to complete the PIAA certification process for their chosen sport and complete practical coaching experiences working with classmates and younger students. **Students must be 16 years of age to enroll in the course.** Successful completion of this course may lead to opportunities for paid or volunteer coaching and officiating positions.

815 Team Games

0.5 credit

Grade 11, 12

Career Pathways:



Students will participate in sports and games that include but are not limited to: Soccer, Basketball, Football, Ultimate Frisbee, Floor Hockey, Base Games, Speedball. Rules, regulations and strategies will be taught for each unit of instruction. Students will be expected to participate at a high level for this course as these games are considered moderate to vigorous forms of physical activity.

816 Net Games

0.5 credit

Grade 11, 12

Career Pathways:



Students will participate in sports and games that include but are not limited to: Tennis, Volleyball, Cross Net, Pickleball, Badminton, and Table Tennis. Rules, regulations and strategies will be taught for each unit of instruction. Students will be expected to participate at a moderate to high level for this course depending on the level of ability.

817 Lifelong Fitness

0.5 credit

Grade 11, 12

Career Pathways:



Lifelong Fitness is a physical education elective that promotes sustainable health and wellness habits for life. Students will engage in a variety of activities, including strength training, cardio, yoga, flexibility exercises, and recreational games that promote fitness. Through these activities, as well as lessons on nutrition, stress management, and fitness planning, students will develop skills to create personalized fitness routines and maintain an active, healthy lifestyle beyond the classroom.

818 The Mind and Body Connection

0.5 credit

Grade 11, 12

Career Pathways:



Students will participate in various activities that focus on the improvement of mental, physical and emotional health. Activities will include but are not limited to Yoga, Meditation, Walking, Low-Impact Exercise and Journal Writing. Students will be expected to participate at a level that they feel they can personally maintain.

819 Strength and Conditioning

0.5 credit

Grade 11, 12

Career Pathways:



This course is designed to give students the opportunity to learn weightlifting concepts and techniques to improve their personal health and fitness. Students will benefit from comprehensive weight training and endurance activities. The course includes both lecture and activity sessions. Students will be empowered with the necessary knowledge to develop exercise plans that meet their personal fitness needs and goals.

897 CPR & First Aid

0.25 credit

Grade 10

Career Pathways:



This course is designed to give students the knowledge and skills necessary to properly deal with breathing and cardiac emergencies consistent with American Red Cross guidelines. The students will also learn the basics of dealing with other emergency situations. At the end of the course the students will have the opportunity to test their knowledge and skills to earn the American Red Cross CPR/1st Aid certification.

World Language

A minimum of 2 credits of the same World Language is highly recommended for all college preparatory students.

505 Spanish I

1 credit

Grade 9, 10, 11, 12

Career Pathways:



Spanish I provides an introduction to the language and culture of the Spanish-speaking world. This course is designed to provide each student the opportunity to achieve an introductory level of proficiency in the four skills of listening, speaking, reading and writing. The language is presented in the context of the contemporary Spanish-speaking world and its culture through the aid of visual media. Some of the topics that will be presented are: the family, sports, vacations, writing letters, and holidays. Assessments will be based on oral and aural comprehension, as well as written projects and assessment. Active participation will be required to demonstrate grade level proficiency.

506 Spanish II

1 credit

Grade 10, 11, 12

Prerequisite: 75% in Spanish I

Career Pathways:



Spanish II expands the study of the language and culture of the Spanish-speaking world previously studied in Spanish I. This course emphasizes the reading and writing phases of learning, Mastery of pronunciation, and the quality of material presented to be organized in some form for permanent reference. There is also a higher expectation in the manner of free response. Students will be assessed on their oral, aural, reading, and writing abilities.

507 Spanish III

1 credit

Grade 11, 12

Prerequisite: 75% in Spanish II with teacher recommendation

Career Pathways:



By the conclusion of Spanish III the student will have been introduced to all the major features of the structure of the Spanish language. The successful student will have mastered the essential grammatical and lexical items so that it is possible to communicate effectively with others in the target language. The student will be introduced to Hispanic literature containing new lexical terms. The student will be expected to discuss the

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readings, written or orally in Spanish to a degree corresponding to the abilities of a third level course. Assessments may occur in any of the following forms: oral, aural, reading and written.

508 Spanish IV Honors

1 credit

Grade 12 (Weighted)

Prerequisite: 80% in Spanish I, II & III with teacher recommendation

Career Pathways:



The fourth level work continues to maintain the four language skills with a greater emphasis on the literary and composition aspects. The students will be introduced to literary works by both Spanish and Spanish-American writers and various Hispanic artists. Students will be assessed on their oral, aural, reading and written abilities in accordance to a level four program.

509 Spanish for Heritage Learners

1 credit

Grade 9-12

Career Pathways:

This course is designed to meet the particular needs of heritage learners. We will respect the knowledge of their linguistic and trans-cultural experiences they bring. Our goal is to build upon that knowledge by expanding their oral and written talents, improving their reading skills, and exploring issues related to their identity and their culture. Every heritage speaker needs to acquire the ability to distinguish between what is colloquial and what is considered vernacular. This course is intended to only enhance vocabulary and grammar in order to better communicate in more formal situations.

TVA German I/II

1 credit

Grade 9, 10, 11, 12

Career Pathways:

German I introduces students to the culture and language of Germany and German speaking countries. This course is designed to provide each student the opportunity to achieve an introductory level of proficiency. Students will be able to introduce themselves and others, and discuss topics such as school, sports and family. Listening, speaking, reading and writing skills are emphasized through the use of digital media and extensive classroom participation. Students are evaluated on oral and aural comprehension and writing skills.

German II- Prerequisite: 75% in German I with teacher recommendation

The study of the language and culture of Germany is continued in German II. Some topics covered in this level include vacations, holidays, past activities, grocery shopping, expressing preferences, giving directions, and making invitations. Digital media and student participation are used to emphasize the listening, speaking, reading and writing skills. Students are evaluated on oral and aural comprehension and writing skills.

Work Based Learning: Internship

Requires pre-approval, placement not guaranteed

WORK-APP Work-Based Learning

Offered every year

.5 credit + (based on Work-Based Learning hours)

Grades 11, 12

Work-Based Learning is an elective career preparation program in which students are placed in a work setting to gain both a deeper understanding of a career and employability skills through hands-on experience. Work-Based Learning experiences are individualized and tailored to the needs and interests of each student. Students must be able to provide their own transportation to and from their work experience. Experiences could be paid or unpaid. Students apply for the program and must be approved for placement. Placement is not guaranteed. It is contingent upon an acceptable work site, availability, and interview process. This is a pass/fail program.

School to Work Field Experience

Prerequisite: Interview with School Counselor and Transition Coordinator is required prior to selecting this class.

On-site work experience in an area of interest of talent monitored by school district Transition Coordinator. May be a paid or unpaid work experience.