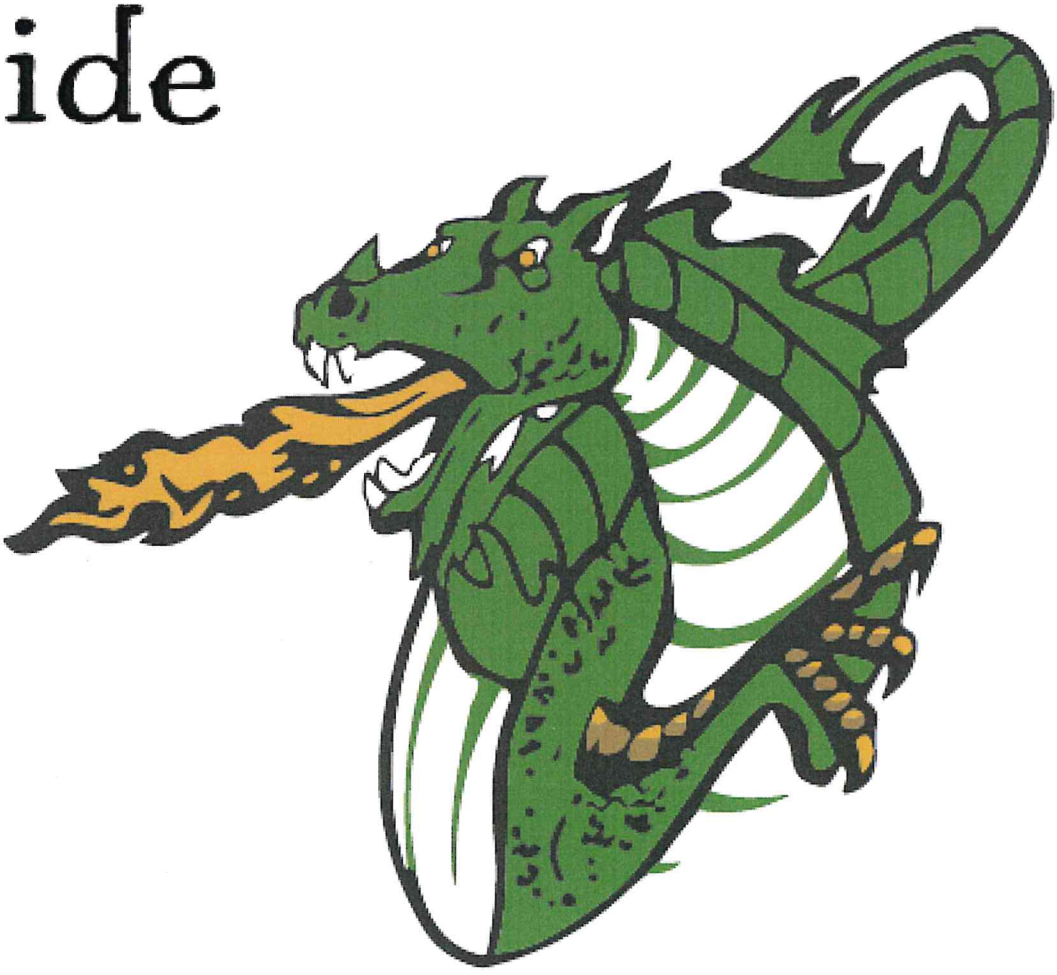
2023-2024 Course Selection Guide



Lewisburg Area School District

LEWISBURG AREA HIGH SCHOOL

COURSE SELECTION GUIDE

2023-2024

SCHOOL DISTRICT BOARD OF DIRECTORS

Dr. Erin Jablonski	President
Mr. Cory Heath	Vice President
Mrs. Kristen Kraus	Treasurer
Mr. Jordan Fetzer	
Mrs. Heather Haynos	
Mrs. Kristen Kraus	
Mrs. Jamie Lyons	
Mrs. Mary Ann Stanton	
Dr. Terra Unzicker-Fassero	
Dr. Virginia Zimmerman	
Mrs. Paula Young	Board Secretary/Recording Secretary

ADMINISTRATION

Mrs. Cathy Moser	Superintendent
Ms. Paula Reber	LAHS Principal
Mr. Joshua Popowycz	LAHS Assistant Principal
Mr. John Fairchild	Director of Administrative Services

COUNSELING STAFF

Mrs. Jennifer Cecco, School Counselor (last names A-F)
Dr. Brenda Zack , School Counselor(last names G-O)
Ms. Jennifer Sands, School Counselor (last names P-Z)
Mrs. Tammy Aikey, Administrative Secretary

ANNUAL ANNOUNCEMENT REGARDING NON-DISCRIMINATION PRACTICES AND POLICIES

The Lewisburg Area School District's programs are open and available to all students. The district does not discriminate or prohibit students from participation because of race, color, national origin, religion, sex, handicap, or political affiliations. The school district's hiring practices are also non-discriminatory. The school district is an equal opportunity employer. In the activities related to employee recruitment and screening, hiring, promotion, demotion, transfer and furlough, the non-discrimination policy stated above extends to include age and veteran status .Inquiries or complaints concerning possible discrimination are to be directed to Mrs. Cathy Moser, who serves as the Title IX and Section 504 officer for the school district. She will also provide information regarding services, activities and facilities which are accessible and usable by handicapped persons. Please call 523-3220, Ext. 3255 for additional information. Publication of this announcement is in accordance with state and federal laws including Title IX of the Education Amendments of 1972, Section 504 of the Rehabilitation Act of 1973 and Title VI of the Civil Rights Act.

TABLE OF CONTENTS

DISCLAIMER: Neither this guide, nor any part of it, should be construed as a contract itself. This guide is not intended to be comprehensive and is advisory to only help students, parents, and faculty of Lewisburg Area High School. The school district reserves the right to make changes or exceptions to statements in the Course Selection Guide.

PROGRAM OF STUDIES

This booklet has been prepared for the use of students and their parents in deciding which courses are best suited to the student's' goals, interests, aptitudes, and abilities.

VISION STATEMENT

In the pursuit of excellence and equity, the Lewisburg Area School District is an inclusive learning community that supports students as they realize lives of purpose and fulfillment in our diverse global society.

MISSION STATEMENT

The Lewisburg Area School District is committed to developing successful, active, informed citizens by providing each student with a personally relevant, intellectually stimulating, innovative educational program supported by caring relationships in a physically and emotionally safe learning environment.

ACADEMIC PROGRAM

The LAHS curriculum is designed to prepare students for an appropriate post-secondary experience, with an emphasis on career and college readiness. Different school situations demand different aptitudes and interests. To assure the greatest possible school success, students should assess their own aptitudes and future plans before selecting the specific courses they wish to pursue. The course descriptions contained in this booklet will be of immediate value and should prove beneficial in the long-range planning that students must do to achieve their desired goals.

Students' choices in high school may often affect their chances for success in future years of education and/or employment. For this reason, students are encouraged to select their courses with the greatest of care. This important educational matter should be discussed with parents. In the event that more information is needed concerning course selection, college admissions and requirements, or employment demands, students and parents should arrange to consult with a counselor. The high school principal reserves the right to place students in courses to enhance their overall program of studies.

SUN AREA TECHNICAL INSTITUTE PROGRAM

SUN Area Technical Institute Courses are designed to prepare students for work in a specific technical field immediately after graduation or for further training in post-graduate education. Students electing this program may attend the Technical School full time in the twelfth grade or earlier with the principal's permission. A cooperative education program in which students gain "on-the-job" experience is an integral component of the SUN Area Technical Institute program.

COOPERATIVE AGRICULTURAL EDUCATION PROGRAM

Students who have been approved for enrollment in The Cooperative Agricultural Education Program will attend Mifflinburg Area High School. Students in the program will follow the Vocational-Agriculture curriculum, must complete the Graduation Requirements for Mifflinburg High School and will receive a diploma from Mifflinburg upon graduation. Students generally begin this program in grade nine or ten and must be approved for enrollment by the Board of Directors of each school district. Students interested in this program must contact a high school counselor to begin the application process.

MASTER SCHEDULE CONSTRUCTION

Students select their desired courses in the second semester of each year. The administration and counseling staff uses this information to build the master schedule. This schedule reflects the interests of the students and incorporates the best educational practices for college and career paths. Because course sections are determined by the initial requests and teacher availability, it is essential that thought goes into the selection. Every effort is made to reduce scheduling conflicts and to fulfill as many student requests as possible. However, students may be asked to make choices or prioritize, especially in courses where there are limited sections. **The listing of a course does not guarantee that the course will be taught.** NOTE: The administration reserves the right to make any changes or updates to course offerings to the Course Selection Guide. Changes in policy, programming, staffing, or low student enrollment to a given course may result in a course no longer being offered.

COURSE SELECTION & REGISTRATION PROCEDURE

The steps outlined below should be of assistance to students in proceeding through the course selection and registration process:

Students will receive the Course Selection Guide link to download on their computer. Paper copies of the Course Selection Guide are available upon request in the Guidance Office.

Students will complete the following:

1. Work with advisors, teachers, counselors, and parents to select courses for 2023-2024 school year
2. Make an appointment with his/her current school counselor to discuss course selections, if there are questions.
3. **Select "Alternate" courses for your electives. Please choose carefully as you may be scheduled into these courses if the other courses are full. If alternate courses are not listed and the course requested is not available, school counselors will assign any needed credits.**
4. Complete the Course Registration Form to use as a guide to select courses. Have your parent/guardian sign the form.

5. During the scheduling window, select courses in the PowerSchool portal. * Student log-in must be used. This may be completed at home or at school, if assistance is needed.

Students who wish to change requests after 4/1 must email Ms. Reber at reber_p@lasd.us. Changes will only be made until 4/15. After that time, students must wait until school starts and changes will be made for extenuating circumstances only.

This gives sufficient time to readjust the master schedule to accommodate changes in class sizes and teacher schedules. Schedule changes requested after this date will be limited to extenuating circumstances, as determined by the administration. The building principal approves all schedule changes.

** The school may make adjustments to what section you are enrolled in for a particular class based on balancing sections.

Schedule changes will not be made for convenience purposes, or for a teacher change.

Any changes in the student schedule during the school year requires a parent conference and will result in a W/P (Withdraw Passing) or a W/F (Withdraw Failing) grade being recorded on their permanent record. W/F will affect Honor Roll for the marking period in which the change was made, a W/P or W/F will not affect grade point average.

Any course change after the midpoint of the first marking period and the 45th day (end of first marking period) will require the student's marking period current grade to transfer to the new course. **After completing 45 days of a course (the first marking period), NO schedule changes will be made for the course. No student will be permitted to add or drop a yearlong course after the first 45 days of a semester.**

NCAA

Students who do not complete all course work at Lewisburg High School may be in jeopardy of not having enough core courses to meet NCAA Clearinghouse requirements. This includes students who may choose to attend SUN ATI or those students who have transferred into the Lewisburg District during their high school years. Students who have a desire to participate in intercollegiate sports should indicate their interest and work with their school counselor through the course scheduling process to assure that proper course work can be planned. More information can be found at http://www.ncaa.org/student-athletes/future/how-register.

SCHOOL COUNSELING SERVICES

For purposes of scheduling, individual/personal/social counseling, college/career counseling, and record keeping, students are assigned a counselor as follows:

Mrs. Jennifer Cecco (last names A-F)
Dr. Brenda Zack (last names G-O)
Ms. Jennifer Sands (last names P-Z)

GRADUATION REQUIREMENTS

The Commonwealth of Pennsylvania mandates graduation requirements for all students in the Pennsylvania public school system. In addition to course requirements, students are also required to take the state-mandated Keystone Exams. These are intended to be end-of-course testing and will take place after students take Algebra I, 10th Grade English, and Biology. New in 2023, all students must complete one of the Pennsylvania Graduation Pathways. All seniors must also complete **one** of the graduation project options listed below to satisfy the state work-based learning requirements.

Lewisburg Area High School requires a total of 27.25 credits for graduation as outlined below:

AREA	**CREDITS**
English	4.0
Social Studies	4.0
Science	4.0
Math	4.0
Physical Education	2.0 (.5 credit each in Grade 9-12)
Arts and Humanities	1.5 (0.5 credit of visual arts is required)
Applied Technology/Business	0.5 (Beginning with Class of 2026)
Health	0.5 (9th or 10th grade)
Financial Literacy/Future Readiness	0.5
Performing Arts	0.5
Electives	5.5-6
Completion of Graduation Project	0.25
Total Credits	**27.25**

GRADE LEVEL SCHEDULING REQUIREMENTS

Students must complete a minimum of 7.0 credits and can take a maximum of 8.0 credits each year, if the schedule allows.

Course Weighting:
AP course grades are multiplied by a factor of 1.12 providing the student earns the equivalent grade of C or higher.

Honors classes are weighted by a factor of 1.06 providing the student earns the equivalent grade of C or higher.

GRADUATION PROJECT

The Graduation Project is required of all students and is to be completed by the end of the third marking period senior year. The Graduation Project can be started as early as the freshman year. Students receive high school credit in their senior year after the Graduation Project is complete. Students can select one of the following options:

- Job shadowing
- Career mentoring
- Industry-recognized credential
- Service learning
- Internship/Practicum
- Community-based work programs (IEP students only)

More detailed information about each option can be found in Naviance under Documents. Graduation Projects must be approved by the student's school counselor. Students are encouraged to discuss the Graduation Project with their school counselor.

SPECIAL COURSE OPPORTUNITIES

BUCKNELL UNIVERSITY COURSES **#295**

Students who have demonstrated superior academic aptitude and achievement may have the opportunity to enroll in courses at Bucknell University. This program is open to eligible juniors and seniors who are in the top 20% of their graduating class. Lewisburg Area High School's cooperative agreement with Bucknell University allows students to enroll in courses tuition-free each semester; students may matriculate in day or evening classes during regular semesters. Students are limited to one course per semester or summer term. Typically, students may not take a course at Bucknell that is offered at Lewisburg Area High School if they have not taken it first at LAHS. Students must have completed one semester at Lewisburg Area High School before enrolling in a course at Bucknell. All effort will be made to accommodate students who may have a conflict between a Bucknell Class and a core Lewisburg Area High School Class.

Any student interested in this special program should seek further details from his/her school counselor. Final course approval will be granted by the principal. All registration must be initiated through the High School Guidance Office.

Grade Guidelines: Students who enroll in Bucknell or other college courses should understand these guidelines relative to the grade earned in each course: (1) The grade earned in the course will not appear on the high school report card, (2) The course and grade earned will be included in the GPA and weighted as an honors course (1.06), (3) The course and the grade earned will be listed on the student's official LASD transcript.

SUSQUEHANNA UNIVERSITY COURSES #296

Students who have demonstrated strong academic aptitude and achievement may have the opportunity to enroll in courses at Susquehanna University. The program is open to eligible juniors and seniors. Lewisburg High School students can enroll in SU Courses each semester, and there is no tuition cost for the courses. All enrollment information is handled by high school counselors, and student enrollment is limited to 8 credits in one academic year.

Grade Guidelines: Students who enroll in Susquehanna or other college courses should understand these guidelines relative to the grade earned in each course: (1) The grade earned in the course will not appear on the high school report card, (2) The course and grade earned will be included in the GPA and weighted as an honors course (1.06), (3) The course and the grade earned will be listed on the student's official LASD transcript.

DUAL ENROLLMENT – EARLY COLLEGE PROGRAM/STEM (ACE)

The Lewisburg Area High School participates in an Early College program, formerly known as the ACE program, with Commonwealth University (Bloomsburg campus). Students may be able to save up to 75% on tuition.

One program (formally ACE) is for qualified high school seniors to take eight college courses in their senior year. Courses taken through this program would satisfy high school graduation credits and allow students to begin to earn college credits at a reduced cost. Seniors would attend the Early College program full-time.

Junior students also have the opportunity to attend Early College part-time in the STEM Magnet program, also through the Commonwealth University. The STEM program allows students to start college courses part-time in their junior year and continue part-time through their senior year. In this program, students choose to focus on one of the following areas: Chemistry, Biology, Health Science, Environmental Science, Engineering, and Education. Students would take LAHS courses in the morning and Commonwealth University courses in the afternoon. These college course would also satisfy high school graduation requirements. More information about that Early College STEM Magnet programs can be found at www.Bloomu.edu/ace or https://www.bloomu.edu/stem.

A third option for Early College is for students in grades 9-12 to take summer college courses. Again the courses are at a discounted rate. At this time, summer Early College courses do not count for high school graduation credits.

Students interested in pursuing any of the above dual enrollment options should meet with their school counselor for more information. There are program enrollment requirements and deadlines. All requests for dual enrollment are subject to the final approval of the principal.

SUN ATI/PENN COLLEGE NOW

Students attending SUN ATI may be eligible to earn college credits while attending SUN through the Penn College NOW program. Students should work with their SUN instructor to learn more about this opportunity.

SENIOR SERVICE /INTERNSHIP #298

This program is for seniors who wish to practice and refine skills or to learn new skills through work or study. Students should work with their school counselor to discuss what they would like to do for senior service. Each participant will choose an activity with a supervisor (a teacher or a community leader) who will act as a consultant, and to whom the student will be responsible. Students must work on their activity at least 60 hours for .5 credit or 120 hours for a full credit. All participants will meet three times per marking period with their counselor as part of their hours. Hours need to be documented and initialed by the Senior Service supervisor to receive credit.

Eligible students must have satisfactory attendance and behavior to be considered for enrollment. Senior Service must be scheduled into open blocks or afterschool hours; schedules will not be adjusted. In addition, the student's academic and attendance records will be reviewed prior to approval in the program. Senior Service is usually limited to one semester. For the fall semester Senior Service, the deadline for the Application for Senior Service is due within the first week of school. For the spring semester of Senior Service, the deadline for Application for Senior Service is due by the first day of the second semester. If students do not have their signed application in by the deadline and if they need the high school credit, they will be placed in a high school course.

Senior Service and Internship are scheduled around the students' courses. This occurs <u>after</u> the master schedule and individual courses have been built.

COURSE ACCELERATION

A student may request to accelerate in select courses within the curriculum appropriate to his or her level of competency. All requests for course acceleration must be made via submission of the Course Acceleration Request Form obtained from the Guidance Office. Requests must be submitted prior to May 1st for summer and fall acceleration, with final approval granted by the principal with input from teachers. Depending upon the type of acceleration, credit might be given for the course on a Pass/Fail basis. Interested students should see School Board Policy #215 or their school counselor for more information.

DISTANCE LEARNING OPPORTUNITIES

Students who reside in the Lewisburg Area School District interested in cyber education are able to participate in distance learning opportunities through a program offered by the District. Students and parents wishing to pursue such a program should develop their proposed schedule in consultation with their school counselor. Final approval for participation in these opportunities will be granted by the Building Principal. Students who participate in the Lewisburg Area School District LASD eSchool program may receive credit toward a Lewisburg Area High School Diploma, providing they meet all LAHS graduation requirements. All requests to participate in the LASD eSchool program must be submitted within 10 days of the semester. Second semester seniors are not eligible to switch to the LASD e-School program.

LEARNING SUPPORT PROGRAM

STUDY HALL SUPPORT

This course is designed for students enrolled in the Learning Support Program. The course is designed to identify and remediate academic and emotional needs while providing instruction in organizational, study, and test-taking skills. Students are instructed in various study and organizational skills while identifying their academic and behavioral strengths and needs. Special attention is given to individualized goals and coping skills necessary to succeed in the regular classroom environment. Students will also explore various career and college options. To receive credit, students must attend with the assigned teacher.

RESOURCE COURSES

These courses are designed for students enrolled in the Learning Support, Supplemental Support, or Emotional Support Programs who, despite adaptations and support, have experienced difficulties in regular education classrooms. Students who have been identified for these courses are provided specialized instruction in Mathematics, Science, English, Social Studies and/or other subjects, depending on individual needs and abilities. Instruction in these classes is provided by a regular and/or highly qualified resource teacher in small group or individualized settings.

GIFTED PROGRAM

The Gifted Program offers several opportunities for students who are identified as gifted with a Gifted Individualized Educational Plan (GIEP). These opportunities provide a means for students to reach their academic potential, and to broaden their experience in subject areas beyond what is offered through differentiated instruction within the high school curriculum. Students in the Gifted Program are encouraged to take academically challenging courses through the Honors and AP courses offered within the curriculum. These students may also wish to investigate other opportunities that are available through the acceleration.

THE ADVANCED PLACEMENT PROGRAM FOR COLLEGE CREDIT

The Advanced Placement Program is a cooperative educational venture between the College Board and Lewisburg Area High School. It is based on the fact that many young people can complete college-level studies while in high school. Like other programs of the College Board, this program is national in scope. Advanced Placement courses are designed to be the equivalent of freshman level college courses, and as such require more individual work than many other courses. Students who take Advanced Placement courses generally do so with the idea that they will take an Advanced Placement examination offered by the Educational Testing Service.

Advanced placement examinations are offered throughout the world each May. No examination in any subject area is longer than three hours. They cost about $95.00 each and are administered in participating schools. All the examinations contain either an essay or problem-solving section; most of them also contain a section consisting of objective questions. The tests are scored by readers and are assigned grades: 5 - Extremely Well Qualified; 4 - Well Qualified; 3 - Qualified; 2 - Possibly Qualified; 1 - No Recommendation.

Many colleges grant credit and advanced standing automatically for qualifying work on the examinations, while some grant advanced standing or credit only. It is the candidate's responsibility to apply for proper placement and credit at college registration. Courses that are available at Lewisburg Area High School that could help prepare the student to take these exams are:

AP Eng. Literature and Composition
AP Eng. Language and Composition
AP United States History
AP Government and Politics
AP Art History (counts as Social Studies OR Visual Arts requirement)
AP Economics
AP European History
AP Seminar (10)
AP Biology
AP Chemistry
AP Environmental Science
AP Physics 1
AP Physics 2
AP Calculus AB
AP Calculus BC
AP Statistics
AP Computer Science Principles
AP Computer Science A
AP Studio Art and Design Year 1
AP Studio Art and Design Year 2
AP Music Theory
AP Spanish Language and Culture

Interested students should refer to the appropriate departmental section in this booklet for course numbers and descriptions.

AP CAPSTONE

AP Capstone is a diploma program based on two yearlong AP courses: AP Seminar and AP Research. These courses are designed to complement other AP courses that the AP Capstone student may take. Students who take both courses and score at least a 3 on the associated AP assessments can earn the AP Capstone Certificate. Students who also take and score at least a 3 on each exam in four additional AP courses may earn the AP Capstone Diploma. Instead of teaching specific subject knowledge, AP Seminar and AP Research use an interdisciplinary approach to develop the critical thinking, research, collaboration, time management, and presentation skills students need for college-level work. The College Board developed the AP Capstone Diploma program at the request of higher education professionals, who saw a need for a systematic way for high school students to begin mastering these skills before college.

LAHS is excited to offer the AP Capstone Program as we expand our opportunities for students. AP Seminar is available during the tenth-grade year, followed by AP Research during their senior year. Each course is yearlong, and AP Seminar is a prerequisite for AP Research. Students are able to take AP European History or World History concurrently if it fits into their schedule. This will be a rigorous endeavor so students should carefully consider if they are able to double-up, particularly in AP Seminar and AP Euro.

In both courses, students investigate a variety of topics in multiple disciplines. AP Seminar will have a focus area in the social studies curriculum and counts as a social studies credit.

Both courses guide students through completing a research project, writing an academic paper, and making a presentation on their project.

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

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

Because this is a rigorous course which requires much independent work for the student, only a limited number of seats are available. Students interested should fully complete the application. Selection will be made through students' past academic performance and teacher recommendations.

More information can be found at https://apcentral.collegeboard.org/pdf/ap-seminar-course-overview.pdf?course=ap-seminar

ARTS (VISUAL) & HUMANITIES

The first set of classes are designed to be transition classes from the middle school to the high school:

INTRO TO 2D ART **#712**
(Previously Elements in Art) (1 Semester, .5 Credit)

Emphasis is on the art elements and principles of design using various materials. Course activities include studies in drawing emphasizing line, shape, texture, composition, proportion, perspective, color mixing and terminology; painting emphasizing color, space, and form; typography; art from other cultures; art history; aesthetics; and art criticism.

INTRO TO 3D ART & DESIGN **#729**
(Previously Design in 3D)
Grades: 9- 12 (1 Semester, .5 Credit)

This is a sculptural art class, emphasis is on exploration of three-dimensional construction, both additive and subtractive. Materials may include wire, plaster, clay, paper maché, cardboard, found objects, and paper. All students will explore the principles of design, art history, and aesthetics. At the end of the course students will have a basic understanding of manipulating various 3D materials by sculpting, designing, and using craftsmanship.

The next set of classes go in depth into specific mediums and offer an opportunity to really immerse yourself in an artform:

CERAMICS I **#705**
Grades 9-12 (1 Semester, .5 Credit)

This is a course that teaches the history of clay through modern hands-on projects. Students will develop their skills in the varying ceramic styles, from pinch pots, coil building, slab building, The course finishes with a culmination project of all three building styles. Students may get to experiment throwing on the wheel, but the focus is on hand-building. Students will learn how to make both functional and sculptural ceramic-ware in tandem with a greater understanding of this age-old art.

CERAMICS II **#707**
Grades: 10-12 (1 Semester, .5 Credit)

Prerequisite: #705 Ceramics I

This is an extension of the content learned in Ceramics 1. Students will fine tune their abilities when using a combination of building techniques and apply them to choice-based projects both sculptural and functional. They will learn subtractive sculpture and they will have routine wheel throwing scheduled into the class as an ongoing opportunity to create more functional work.

DRAWING **#701**
Grades: 9-12 (1 Semester, .5 Credit)

Emphasis in this class is on the ability to develop observational skills as students create drawings in a variety of themes and mediums. Topics to be covered include perspective, mark making, line quality, value, and texture through still life, landscape, and portraiture.

PAINTING I **#706**
Grades: 9-12 (1 Semester, .5 Credit)

Emphasis will be on color theory, techniques and expression in painting. Art history, art appreciation, creativity and craftsmanship will be an integral part of the class. All students will explore various materials, tools and techniques to increase their art vocabulary and develop their painting style.

PAINTING II
Grades 10-12 (1 Semester, .5 Credit)

Prerequisite: Painting I

Students will delve deeper into the history and appreciation of art and artists. They will learn more advanced techniques in painting as well as use different mediums and methods.

AP ART AND DESIGN YEAR I **#735**
Grades: 11-12 (1 Year, 1 Credit)

Prerequisite: Successful completion of two previous semesters of Art.

The College Board AP and Art Design Program includes three different courses. AP 2-D and Design, AP 3-D Art and Design, and AP Drawing. Lewisburg offers two years of AP Art and Design so that students are prepared at the end of Year 2 to submit a portfolio in the course of their choosing. "Year 1" is a year of exploration in all mediums. It is an advanced elective art course designed to build a firm foundation in the visual arts, through intensive study, following the AP guidelines. Emphasis is on mastery of those skills to complete an explorative art portfolio, that shows growth while establishing a personal art style. Students will mostly work with hands-on, choice-based projects, and complete one research project. Students must demonstrate the ability to work independently and be self-directed; students will also explore the design principles in-depth, creative expression, originality, craftsmanship, aesthetic perception, art heritage, criticism, assessment and aesthetics.

AP ART AND DESIGN YEAR II **#731**
Grade: 12 (1 Year, 1 Credit)

Prerequisites: AP Art and Design Year I

This course is the most advanced elective art course at LAHS with individualized, intensive study. Following the AP guidance, emphasis is on mastery of skills to complete an art portfolio within one of the following categories: 2-D Art and Design, 3-D Art and Design, or Drawing, Following "Year 1", students should have a clear understanding of the portfolio type they should spend a full year working in. Students must demonstrate the ability to work independently and be self-directed; students will also explore the design principles in-depth, creative expression, originality, craftsmanship, aesthetic perception, art heritage, criticism, assessment and aesthetic values focusing on their own artistic production. Work includes hands-on projects, a sketchbook, homework assignments, worksheets, critiques, a research project, establishment of a digital portfolio and digital requirements established by AP guidelines.

AP ART HISTORY **#725**
Grades 11-12 (1 Year, 1 Credit)

The AP Art History course is equivalent to a two-semester introductory college course that explores the nature of art, art making, and responses to art. By investigating specific course content of 250 works of art characterized by diverse artistic traditions from prehistory to the present, the course fosters in-depth, holistic understanding of the history of art from a global perspective. Students become active participants in the global art world, engaging with its forms and content. They experience, research, discuss, read, and write about art, artists, art making, responses to, and interpretations of art.

PHOTOJOURNALISM I **#850**
Grades: 10-12 (1 Year, 1 Credit)

Photojournalism is in charge of creating Lewisburg High School's yearbook, a comprehensive piece of journalism that will both cover and illuminate the school year. Students will learn about photography, visual design, layout, feature writing, journalistic integrity, even business and sales. Students will interview members of the school community and learn about how to find the heart of a story. They will practice skills that are useful in virtually every field as they work toward reaching a concrete, end-of-course goal: the book itself.

PHOTOJOURNALISM II **#851**
Grades: 11-12 (1 Year, 1 Credit)

Photojournalism II meets at the same time as Photojournalism. Returning students have the opportunity to take on leadership roles as editors. In addition to helping to create and proof the book itself, editors will also lead and manage small groups, overseeing the layout and design of pages, as well as providing big-picture vision for the book. This is a real-world leadership position, as student-editors learn to manage deadlines, delegate responsibilities, lead and motivate team members, and serve as hands-on experts in the class.

BUSINESS & APPLIED TECHNOLOGY

HIGH SCHOOL SEMINAR **#803**
Grade: 9 (1 semester, .25 credit)

High School Seminar is a course to help prepare ninth grade students for success during their four years of high school. This semester-long, required class will focus on career pathways, study skill, digital literacy, digital citizenship, and social and emotional Learning.

FINANCIAL LITERACY **# 804**
Grade: 11 (1 Semester .25 credit)

This course focuses on mastery of the National Standards for Business Education and related to Personal Finance, and the Pennsylvania Standards for Finance and Economics and Career Education and Work.

This course is designed to prepare students for the financial responsibilities they will face upon graduation and most importantly, as a consumer. Through the teaching of financial concepts, they will gain practical life skills and knowledge necessary to maintain the finances of a household with topics such as paychecks, budgeting, income taxes, checking accounts, saving, investing, credit, and taxes.

ENTREPRENEURSHIP/
SMALL BUSINESS **#802**
Grades: 9-12 (1 Semester, .5 Credit)

This introduction to business course focuses on mastery of the National Standards for Business Education and Pennsylvania's Standards for Entrepreneurship and Management. Students will analyze and develop a business plan and learn the key the skills, attitudes and guidelines that it takes to get an entrepreneurial venture off to a good start, including identifying entrepreneurial characteristics, evaluating opportunities, engaging in customer discovery, design thinking, feasibility, financing and planning for success. The course is based on The University of Iowa's Biz Innovator Curriculum, and upon completion, students are eligible to receive 3 University of Iowa College Credits, after sitting for final and achieving a score of 70% or higher. This course is recommended for students who have a passion for creating new things, problem solving, and who are interested in business or plan to own and operate their own business.

APPLIED LAW **#828**
Grades: 9-12 (1 Semester, .5 Credit)

This course is designed to acquaint the student with the basic principles of law that apply to everyday life. Students are introduced to different types of laws and how they are created and discuss the differences between criminal, civil, procedural, and substantive law. Students learn how to recognize and create legally enforceable contracts by the introduction of the six elements of a contract: offer and acceptance, genuine agreement, consideration, capacity, legality of contracts, and written contracts under the Statute of Frauds. Students will also analyze and discuss current legal issues through current events highlighting legal issues in the news.. This course is to all students planning on a business or legal career, or who plan to own and operate their own business, business or legal career, or who plan to own and operate their own business.

ACCOUNTING I **#841**
Grades: 10-12 (1 Semester, .5 Credit)

This introductory course is a valuable first step for students planning on working in business, starting their own business, majoring in business in college or for those who simply want to better understand basic finances. The Accounting I curriculum is designed to provide students with the knowledge and skills necessary for a solid understanding of accounting principles and bookkeeping fundamentals. Benchmark assessments and portfolio pieces are employed to track individual progress. First year accounting provides the theory and skills necessary to keep financial records both manually and with the use of computers. This course provides a basic accounting knowledge for students planning to enter college and pursue a career in a business-related field, students desiring entry-level employment, and students who plan to own and operate their own business.

ACCOUNTING II **#844**
Grades: 10-12 (1 Semester, .5 Credit)

Prerequisite: Passing grade in Accounting I. (Recommended grade of 83%)

This course is designed for the student who wants to enhance accounting concepts acquired in Accounting I and is an excellent head start for those planning on majoring in Business/Accounting in college. Students will complete the accounting cycle for a corporate merchandising business while gaining experience with plant assets, depreciation, inventory, valuation, notes, and accruals, They will apply these skills to day-to-day financial reporting and decision making of a corporation. Accounting II expands the students' understanding of accounting subsystems and internal control procedures.

GRAPHIC DESIGN **#910**
Grades: 9-12 (1 Semester, .5 Credit)

This course will emphasize visual communication principles and visual presentation aspects of Web pages and visual media, including page layout, typography, color theory, navigation, and image creation and editing. Prior to creating webpages students will understand how the Internet works, and how information is transferred from one server back to their web browser. Students will then apply principles of design in the creation of various visual media projects. Including but not limited to web pages using various markup languages, as well as the creation of various vector and bitmap related projects using CNC technology. (Counts as Visual Arts credit).

COMPUTER PROGRAMMING **#485**
Grades: 9-12 (1 Semester, .5 Credit)

Students learn to use AutoDesk Inventor, a 3-D solid modeling software package. After a computer hardware/software orientation, students learn to read and create several types of engineering technical drawings. Students will use 3-D objects using CADD software and they may create that object using a Computer Numerical Control (CNC) machine. Students will design both individual components and larger assembly drawings consisting of numerous individual parts. Students will explore architectural drawing concepts and begin designing building structures using AutoDesk Architectural software.

INDEPENDENT STUDY IN COMPUTER SCIENCE **#482**
Grades:10-12 (1 Semester, .5 Credit)

Prerequisite: Prior instructor approval is required to take this course.

Students who exhibit a strong desire to pursue a particular study on an independent basis are encouraged to enroll. However, students must discuss their plans with the instructor and receive approval of the project prior to registering for the course. Note: only a small number of independent projects will be scheduled each semester.

ADVANCED PROTOTYPING AND DESIGN. **#924**
Grades: 9-12 (1 Semester, .5 Credit)

Students in this course will develop an in-depth understanding of the science and technology in converting wood into useful products. Students will study the material science and engineering of using wood and wood fiber as a manufacturing material. The course will enhance the students' knowledge as they learn a broad range of specialized skills. The Advanced Prototyping and Design course allows students to convert concept sketches and renderings into real life designs, teaching students the science, mathematics, and critical thinking skills needed in the creation of various prototypes and products.

INTRODUCTION TO ENGINEERING DESIGN **#920**
Grades: 9-12 (1 Semester, .5 Credit)

In Introduction to Engineering Design, students are introduced to the engineering profession and a common approach to the solution of engineering problems, and the engineering design process. Utilizing activity-project-problem-based teaching and learning pedagogy, students will progress from completing structured activities to solving open-ended projects and problems that require them to develop planning, documentation, communication, and as well as other professional skills.

INDEPENDENT STUDY IN TECHNOLOGY EDUCATION **#907**
Grades: 10-12 (1 Semester, .5 Credit)

Prerequisite: Prior instructor approval is required to take this course, and students must have completed a minimum of two semester courses of Technology Education.

In this independent study, a specific technology area of concentration may be elected which emphasizes the application of technology to solve problems encountered in real life situations. The technology education instructor and the student will determine the scope of the project, instructional time spent, and evaluation procedures.

COMPUTER AIDED DRAFTING AND DESIGN **#911**
Grades: 9-12 (1 Semester, .5 Credit)

Students learn to use AutoDesk Inventor, a 3-D solid modeling software package. After a computer hardware/software orientation, students learn to read and create several types of engineering technical drawings. Students will design 3-D objects using CADD software and then may create that object using a Computer Numerical Control (CNC) machine. Students will design both individual components and larger assembly drawings consisting of numerous individual parts. Students will explore Architectural Drawing concepts. Students will design building structures using AutoDesk Architectural software.

COMMUNICATION SYSTEMS/ VIDEO PRODUCTION **#919**
Grades: 9-12 (1 Semester, .5 Credit)

This course covers the history and development of cinema, documentaries, live production, and other new media and film technologies. Students will explore the Audio and Video production industry and its post-secondary educational and career opportunities. Students will gain job-specific training for entry-level employment in audio, video, television, and motion picture careers. Professional grade equipment and software will be used in the creation of student lead productions. Students learn skills and practices in various aspects of cinema and video production by applying the elements of art, principles of design, integration of technology for the effective visual communication of their ideas, feelings, and values. Students develop skills, including camera/recording operation, framing and composition, manipulations of space and time, idea development and communication, the mechanics and psychology of editing, script writing or text creation, light and sound, and impact.

ENGLISH LANGUAGE ARTS

ENGLISH LANGUAGE ARTS 9 **#101**
Grade: 9 (1 Year, 1 Credit)

Students will develop reading, writing, listening, and speaking skills. Students will learn to read independently as well as analyze and interpret texts. Literature, both fiction and non-fiction, will be used to develop skills. Various types of writing may include poems, short stories, plays, complex informational pieces, and persuasive pieces. Students will focus on clear research and conduct inquiry on self-selected and/or assigned topics. Students will improve the quality of their writing, understanding style and using grade appropriate conventions of language. Students will listen critically and respond to others while demonstrating an awareness of audience. Classes will understand the characteristics and functions of the English language. Students will use media and technology resources and understand how techniques used in media influence society.

HONORS ENGLISH LANGUAGE ARTS 9 **#102**
Grade: 9 (1 Year, 1 Credit)

Utilizing a variety of writing genres, this course will focus on close reading of text for understanding and analysis purposes. Students will build their skill in analyzing, interpreting and evaluating the authors' use of techniques in fiction and nonfiction classical and contemporary works. They will study the impact of cultures and writers on literature and will build their skill in identifying and using literary devices through textual analysis. The course will focus on skills that aid students in interpreting the literal and figurative meanings of words as well as their origins. Students will continue vocabulary acquisition through the use of the English department's vocabulary program, which focuses on words that appear on the SAT test. Students will write beyond the five-paragraph. Students will build communication skills during class discussions of material by learning how to respond in a scholarly manner and will be able to support their position with textual responses in both large and small group situations. Students will also make associations between history, the arts, and literature. Through the use of various mediums of art, students will connect to the texts on both an intellectual and mimetic level.

ELA FOR ENGLISH LANGUAGE LEARNERS **#130**
Grade: 9-12 (1 Year, 1 Credit)

ELA for English Language Learners provides students who are non-native English speakers acquire targeted instruction in reading, writing, speaking, and listening. Student enrollment is based on their annual WIDA testing and teacher recommendations.

ENGLISH LANGUAGE ARTS 10 **#107**
Grade 10 (1 year. I credit)

In this course, students will analyze various forms and genres of literature on a variety of levels, including thematic development, authorial assumptions and worldview, and point of view. Students will use textual evidence to answer specific questions and prompts, as well as to engage in collaborative discussions on grade-level topics. Students will write to different types of prompts of varying lengths, using academic vocabulary, sufficient facts, concrete details, and quotations. Students will read most of the texts in class and will also have an opportunity to better understand the texts through visual media and other supplemental materials pertaining to each module. Students will access some texts digitally and will be able to use the class online site to obtain documents and handouts pertaining to each unit, notes, study guides, and assessments. English 10 will follow the five modules created by the PA Core Standards. Students taking this class should plan to take Keystone English Language Arts at the end of the course.

HONORS ENGLISH LANGUAGE ARTS 10 **#108**
Grade 10 (1 Year, 1 Credit)

In this course, students will focus on analytical responses using textual examples for support. The course will focus intensely on writing to various prompts; the length of the writing will vary from short writing assignments to several pages. Students engage with texts using supplemental sources including music, art, technology, and nonfictional texts. Students will have nightly reading assignments. Students will use the class online Learning Management System to obtain documents, handouts, and notes pertaining to each unit. Honors English 10 follows the five modules created by the PA Core Standards. Students will sit for the Keystone Literature Exam in the spring.

ENGLISH 11 LANGUAGE ARTS **#111**
Grade 11 (1 Year, 1 Credit)

In this course students will develop reading, writing, listening, and speaking skills. Students will develop these skills through a systematic study of American Literature including poetry, fiction, nonfiction, drama, and film. They will apply critical thinking skills to texts, analyzing and interpreting literature, evaluating relationships, drawing inferences, and analyzing the effective use of literary elements. Students will expand and enrich their vocabulary through direct vocabulary study and through the examination of the relationship of new words to other words in context. Students will develop writing skills through grammar study and various writing exercises. Students will develop speaking and listening skills through presentations, class discussions, and small group discussions. Students will engage in collaborative learning experiences and group and individual projects. Assessments will include daily reading assignments and homework, quizzes, vocabulary tests, unit exams, essays, presentations, projects, and participation in classroom discussions.

ENGLISH LANGUAGE ARTS 12 **#118**
Grade 12 (1 year, 1 credit)

In English 12, students will continue to build their reading and writing skills as they relate to their postsecondary plans. Students will read a variety of modern literature and delve into different schools of literary criticism to analyze literature from multiple perspectives. Students will develop the skills to evaluate textual evidence to make inferences and draw conclusions about the author's implicit and explicit beliefs about a subject. Students will read a variety of texts and evaluate the authors' effective use of literary devices. Students will hone their writing skills by completing writing in multiple genres and will apply critical thinking skills as they respond to complex informational and persuasive pieces. Topics for writing could include but are not limited to: literary analysis, argumentative response, and cover letter/resume. Students will continue to develop speaking and listening skills through presentations and class discussions.

INTRODUCTION TO MULTIMEDIA JOURNALISM **#196**
Grades 10-12 (.5 credit; 1 Semester)

This one semester course is designed to combine the journalistic principles of writing with modern media video production. From the basic concepts of broadcast TV, video, and film production, to the science behind effective communication skills, this class gets students started in the world of communication. The course requires that students learn the techniques and tools to accurately, efficiently and ethically communicate using video and audio in a variety of platforms (studio desk, live at the scene, vlog, podcast, radio, game coverage, etc.). Students will write scripts, apply visual messaging, research stories and topics, as well as critically evaluate past broadcasts and films. Additionally, students will produce video segments for different audiences and topics in a variety of roles.

FILM STUDY AND PRACTICE **#195**
Grades 9-12 (1 Semester, .5 Credit)

In this course students will start out by analyzing films for the various ways to develop plot, manipulate the viewer through sound, and create a visual work of art through angles. After looking at the bigger picture, each student will be able to write a screenplay. Throughout the writing process there will be tutorials on how to use a screenwriting website on your personal device along with a look at other scripts and how they are developed. At the completion of the semester students will write a compare and contrast essay on two films analyzing either the thematic, genre, or production similarities and differences.

CREATIVE WRITING **#145**
Grades: 9-12 (.5 Semester, .5 Credit)

In Creative Writing, students will have an opportunity to write and workshop as they prepare to share their own creative work with an audience. They will participate in rigorous, teacher-led workshops with the goal of identifying existing strengths and areas of improvement in their own and other's writing, developing their skills as both writers and editors. The number one goal in a workshop is to provide the writer with the tools and encouragement to attempt an improved second draft of their piece. If the workshop does not accomplish this, it has not been successful! Units will also include readings on craft as well as texts to be used as examples in discussions. Writing exercises will also be periodically assigned. All genres are welcome: fiction, creative nonfiction, poetry, drama, screenwriting, and more.

MYTHOLOGY AND LEGENDS **#144**
Grades: 9-12 (1 Semester, .5 Credit)

Instruction in this course is based on the PA Core English Language Arts standards. Students focus on reading, writing, speaking, and listening activities framed around the big idea of exploring and analyzing mythology from around the world. Students read fictional mythology and non-fictional informative texts to provide context. Students write to analyze, connect, and evaluate these texts. Students engage in class discussions involving informational text and literature to interpret diverse perspectives from across the world and history. Students address how literature is a reflection of the society that produced it. Students address how heroes of a culture reflect the values of a society. Key outcomes include citing strong and thorough textual evidence to support analysis of what the text says explicitly and implicitly; analyzing different perceptions of the purpose of life, the duties of humanity, and the function of death based on texts; identifying how audience and purpose influence a writer's choice of organizational pattern; and constructing original creation and hero myths.

SPEECH **#157**
Grades: 9-12 (1 Semester, .5 Credit)

Instruction in this course is based on the PA Core English Language Arts standards. Reading, writing, speaking, and listening are framed around the big idea that communication is a process that requires preparation. Students read informative and persuasive texts and watch examples of speeches to provide models. Students write and present to inform and persuade their audience. Students engage in class discussions involving informational and persuasive presentations to interpret diverse perspectives within the audience and society. Key outcomes include identifying how audience and purpose influence a speaker's choice of organizational pattern; analyzing different perceptions of selected topics; evaluating presentations; and constructing a complete script and delivering speeches using information from their research.

AP ENGLISH LANGUAGE & COMPOSITION **#185**
Grade 11 (1 Year, 1 Credit)

This course is designed to parallel an introductory college course in composition. This course is a rigorous class in which students will develop skills in reading and writing over the course of four thematic units. The course is aligned with the PA Core Standards for English Language Arts as well as the curricular requirements set forth by the College Board. Students will be challenged to engage in higher-order thinking based upon in-depth reading and thoughtful writing. Students will become better readers as they practice close reading and examine the rhetorical strategies of a wide variety of nonfiction prose and visual texts. Students will improve their writing through informal and formal writing exercises. Student writing will display skillful focus, development, organization, and style. Students will complete a researched argumentative paper that shows understanding, analysis, and synthesis of ideas from a number of different texts and follows MLA conventions of citation. Students will improve their vocabulary by using direct vocabulary study as well as by practicing precise word choice during the writing and revising processes. Students enrolled in this course will be prepared to take the AP English Language and Composition exam, which may count as college credit at some colleges and universities.

AP ENGLISH LITERATURE & COMPOSITION **#187**
Grade 12 (1 Year, 1 Credit)

This course focuses on reading literature from a variety of time periods and genres. Students will read widely in this course and reflect on their reading through extensive discussion, writing, and rewriting. Students will write a variety of papers including analytical papers focusing on a particular literary prompt, expository essays using textual examples and personal experience to respond to or defend a particular opinion, and argumentative essays. There will also be essays incorporating the visual arts as a means of better understanding the texts, and timed in-class essays taken from previously used national exam prompts. Students will use MLA (Modern Language Association) Format for their outside writings. Prompts used in class will be those created and used by the College Board for the timed in-class essays. In all cases the writing and reading in this course will allow students to interact and better understand the writer's purpose, genre conventions, and how language itself contributes to the effectiveness in writing.

FAMILY AND CONSUMER SCIENCES

BAKING AND PASTRY **#870**
Grades 9-12 (1 Semester, .5 Credit)

Baking and Pastry is an introductory baking class. Culinary skills will be taught in Quick breads, Yeast breads, Cookies, and Pie/ Pastry Units. In each unit students will learn how to modify recipes to meet individual dietary needs while lowering fats, sugar, sodium, and calories. Measurement, conversions, equipment, teamwork, and sanitation will also be taught. Labs are designed to apply information learned in class.

CULINARY ARTS **#892**
Grades 10-12 (1 Semester, .5 Credit)

Prerequisite: Baking and Pastry

In Culinary Arts, students will study and prepare food from cultural cuisines such as Italian, Mexican, and Chinese. Cultural food prep techniques using knives, woks, pasta machines, food processors, pizzelle irons, and other equipment will also be studied. Students will learn sanitation, food purchasing information, and recipe adaptations (changing recipes to serve various dietary needs such as vegetarianism, lower cholesterol, and sodium reduction. Culinary will engage in an exciting Iron Chef competition at the end of the semester to put the skills learned to the test!

FIBER ARTS (Clothing and Crafts) **#871**
Grades: 9-12 (1 Semester, .5 Credit)

This course is a hands-on, project-based course, intended to teach students how to construct textile materials in a creative and useful way. This course is filled with opportunities to problem solve, think critically and creatively, and collaborate. The course will begin with a unit on *Machine and Hand-stitching Basics and Textile Science.* In this unit, students will learn the features of the machine along with basic sewing skills. In addition, students will learn the types of textiles, their characteristics, benefits, and drawbacks. This will allow students to select the optimal fabric for different kinds of projects. The first unit ends with the first project: Elastic Waste Project, which applies the basic skills, taught. Students will become pattern literate to be able to construct their choice of shorts, pants, or a skirt. Students will also be able to tailor their project to fit them perfectly. *Upcycling* is the focus of the second unit. Conservation, reducing, reusing, and recycling will be explored along with upcycling, increasing the value of an otherwise worn-out item. Students will then research, design, and create their own upcycling project using the best sewing practices. The third and final unit is a *Project Choice* unit where students can pick a project of their choice after mastering secondary levels skills like zippers, French seams, and applique. For example, students might make a tote bag, stuffed animal, clothing item, or quilt. This unit is meant to apply the skills learned throughout the course to construct a more challenging textile-based project.

FOOD AND NUTRITION **#872**
Grades 9-12 (1 semester, .5 Credit)

This course is an exploration of food. Students will progress through several units that include protein, grains, dairy, vegetables, and fruits. In each unit, students will learn about nutritional properties, quality comparison, alternatives and substitutes related to dietary restrictions, along with safe and delicious preparation techniques. The course is infused with cooking labs; therefore, students will be able to understand proper cooking techniques for a large variety of foods. In addition, an analytical look at the media and nutrition will be explored.

CHILD DEVELOPMENT. **#884**
Grades: 9-12 (1 Semester, .5 Credit)

Calling all future teachers, psychologists, pediatricians and parents! This course is designed to help students understand the normal growth and development patterns of children from the prenatal stage to kindergarten (age 6). Students will learn to develop effective child-rearing skills through a positive approach. The attitudes and knowledge developed help students become better professionals who will work with kids and parents. Students will focus on the cognitive, physical, social and emotional development of children. This course includes projects where students develop and carry out a variety of activities to help children grow using information learned.

SURVIVING THE REAL WORLD **#875**
Grades: 9-12 (1 Semester, .5 Credit)

This course intended to prepare students for post-graduation life with a focus on financial management, independent living, and personal improvement. The course contains four units. The first, *Food and Nutrition*, will focus on healthy and sanitary food preparation. In addition, food choice and its effects on one's health will be explored. The second unit is *Financial Management* and will explore budgeting, saving, and prioritizing money. *Consumerism* is the topic of the third unit. This unit will focus on comparative shopping, which includes understanding marketing and advertising techniques. Students will work towards the ability to evaluate items and determine the best option. Also, analyzing nutrition labels, conservation, consumer rights and basic mending will be explored and practiced. The last unit is *Career and Professional Development.* Students will learn skills such as résumé critique, interview skills, and professional, educational or scholarship application completion.

MATHEMATICS

ALGEBRA I **#410**
Grades: 9–11 (1 Year, 2 Credits)

Algebra 1 is designed to build strong problem-solving skills through linear and quadratic functions. Multiple methods of representing these functions such as verbal descriptions, equations, tables, and graphs will be taught. Modeling real-world situations using functions in order to solve problems arising from those situations is also covered. Skills are learned individually as well as collaboratively. Topics covered include expressions, equations, functions, properties of real numbers, solving, graphing and writing linear equations and functions, graphing linear inequalities, exponents, operations with polynomials, and probability with data analysis. This course meets every day for one full block.

INTERMEDIATE ALGEBRA **#430**
Grades: 9–11 (1 Year, 1Credit)

Prerequisite: Algebra I

Intermediate Algebra class is a yearlong course. In addition to a review of topics covered in Algebra I, students will also learn all other topics included as eligible content on the Keystone Algebra Exam. New mathematical topics include Quadratic Functions and Factoring, Polynomials and Polynomial Functions, Rational Exponents, Rational Functions, and Radical Functions. The Pennsylvania Keystone Algebra Exam will serve as an end of course exam to determine student mastery of content.

ALGEBRA II **#435**
Grades:9-12 (1 Year, 1 Credit)

Prerequisites: Algebra I, Intermediate Algebra, May take Geometry concurrently.

Algebra II is a year-long course. It includes a continual application of all topics covered in Algebra I and Intermediate Algebra, plus additional topics. Additional topics include Systems of Equations in Three Variables, Matrices, Function Operations, Graphing Square Root and Cube Root Functions, Exponential and Logarithmic Functions.

GEOMETRY **#427**
Grades 10-12 (1 Year, 1 Credit)

Prerequisite: Intermediate Algebra. (Algebra II may be taken concurrently)

Geometry topics include, but are not limited to, points, lines, and planes; segments and angles; parallel and perpendicular lines; triangle relationships; congruent triangles; special quadrilaterals; similarity of plane figures; areas of plane figures; surface area and volume of solids; right triangle trigonometry; and circles.

GEOMETRY (9) **#428**
Grade: 9 (1 Year, 1 Credit)

Note: Students who completed Keystone Algebra or Keystone Algebra/Algebra II in 8th grade should take this course

Prerequisite: Algebra II (May be taken concurrently)

Geometry topics include, but are not limited to, points, lines, and planes; segments and angles; parallel and perpendicular lines; triangle relationships; congruent triangles; special quadrilaterals; similarity of plane figures; areas of plane figures; surface area and volume of solids; right triangle trigonometry; and circles.

ADVANCED ALGEBRA WITH TRIGONOMETRY **#450**
Grades: 10-12 (1 Year, 1 Credit)

Prerequisites: Successful completion of Algebra II and Geometry. (Recommended final grade of 85%)

Topics covered in this course include exponential and logarithmic functions; rational functions; counting methods and probability involving permutations and combinations; data analysis and statistics; arithmetic and geometric sequence and series; trigonometric ratios; functions; graphs; identities; and equations.

PRE-CALCULUS **#464**
Grades: 11-12 (1 Year, 1 Credit)

Prerequisite: Advanced Algebra with Trigonometry. (Recommended final grade of 85%)

Pre-calculus is an advanced form of secondary algebra and trigonometry. Topics covered include equations and inequalities, polynomial, rational, exponential, and logarithmic functions and their graphs. The conics and trigonometry as well as sequences, series, and probability will be discussed. Students taking this course should plan on taking Calculus the following year.

ANALYSIS OF MATHEMATICS **#404**
Grades: 11-12 (1 Year, 1 Credit)

Prerequisites: Successful completion of Algebra II and Geometry

This course is a year-long course geared to those students who want to explore the applications of mathematics in today's world. Focus is placed on applications in sustainability, biology, economics, and technology. Students develop skills in quantitative literacy along with computational fluency and problem solving. Topics covered include dimensional analysis, functions (including logarithmic and exponentials), introductory network theory, interpretation of graphs and figures, probability, and game theory.

STATISTICS **#444**
Grades: 11-12 (1 Year, 1 Credit)

Prerequisite: Algebra II

The content of this course includes, but is not limited to probability, data collection, data display methods, data interpretation, descriptive and inferential statistics, statistical measures of centrality and spread, binomial and normal distributions, hypothesis testing, sample size, and confidence intervals.

AP STATISTICS **#445**
Grade: 12 (1 Year, 1 Credit)

Prerequisite: Algebra II (Advanced Algebra with Trigonometry recommended with a final grade of 85%)

The purpose of this course is to introduce students to the major concepts and tools for collecting, analyzing and drawing conclusions from data . Students are exposed to four broad conceptual themes: Exploring Data: describing patterns and departures from patterns; Sampling and Experimentation: planning and conducting a study; Anticipating Patterns: exploring random phenomena using probability and simulation; Statistical Inference: estimating population parameters and testing hypotheses. Students are encouraged to take advantage of the opportunity to receive college credit or advanced standing by sitting for the Advanced Placement Statistics Exam.

AP CALCULUS AB **#470**
Grades: 11-12 (1 Year, 1 Credit)

Prerequisite: Advanced Algebra with Trigonometry with teacher recommendation or Pre-Calculus. Recommended final grade of 85%

The content of this course incorporates guidelines recommended by the College Board for Calculus AB including: functions, limits and continuity, derivatives and applications, the definite integral and applications, methods and application of integration, and transcendental functions. Students are encouraged to take advantage of the opportunity to receive college credit or advanced standing by sitting for the Advanced Placement Calculus AB Exam. Students are also encouraged to use graphing calculators.

AP CALCULUS BC **#471**
Grade 12 (1 Year, 1 Credit)

Prerequisite: AP Calculus AB. Recommended final grade of 85%

Calculus BC is a full-year course in the calculus of functions of a single variable. It includes all topics covered in Calculus AB plus additional topics. Additional topics include convergence tests for series, Taylor and Maclaurin series, the use of parametric equations, polar functions, arc length in polar coordinates, calculating curve length in both parametric and function equations, L'Hopital's rule, integration by parts, improper integrals, Euler's method, differential equations for logistic growth, and the use of partial fractions to integrate rational functions. Students are encouraged to take advantage of the opportunity to receive college credit or advanced standing by sitting for the Advanced Placement Calculus BC Exam.

AP COMPUTER SCIENCE PRINCIPLES **#472**
Grades: 10-12 (1 Year, 1 Credit)

Prerequisites: Algebra II, at least 1 Applied Technology Course recommended

This course is an introductory college-level computing course that introduces students to the breadth of the field of computer science. Students learn to design and evaluate solutions and apply computer science knowledge to solve problems through the development of algorithms and programs in Python. They incorporate abstraction into programs and analyze data to create meaningful conclusions. An emphasis is placed on partner programming and collaboration. Students also analyze innovations in computing systems, including how the Internet works, binary numbers, and impacts on data security and privacy. Students are encouraged to take advantage of the opportunity to receive college credit or advanced standing by sitting for the Advanced Placement Computer Science Principles Exam.

AP COMPUTER SCIENCE A **#474**
Grades 11-12 (1 Year, 1 Credit)

Prerequisite: AP Computer Science Principles

AP Computer Science A is an introductory college-level computer science course. Students cultivate their understanding of coding through analyzing, writing, and testing code as they explore concepts like modularity, variables, and control structures. They use the Java programming language throughout the course. Students are encouraged to take advantage of the opportunity to receive college credit or advanced standing by sitting for the Advanced Placement Computer Science A Exam.

MUSIC AND PERFORMING ARTS

MUSIC TECHNOLOGY **#705**
Grades: 9-12 (1 Semester, .5 credit)

Note: Counts as a way to fulfill the State requirements for music, dance and theatre for students who are not in Band, Orchestra or Choir.

This course will focus on experiencing music through the use of technology. Students taking this course will explore a wide overview of musical concepts as they are seen through technology, in a hands-on way. Students will utilize computers, software, keyboards, and audio equipment to experiment in various musical environments. Concepts explored will be music notation, loops, composition, and improvisation. Units will be organized around a series of projects, each focusing on a different aspect of music or music technology. Students will also receive helpful skills for navigating life in an increasingly technology-oriented world.

BAND TECHNIQUES **#741**
Grades: 9-12 (1 Year, .5 Credit)

Note: Counts as a way to fulfill the State requirements for music, dance and theatre for students who are not in Band, Orchestra or Choir.

This is a year-long course designed to give students the opportunity to learn a Band instrument from a beginner level at an accelerated pace. This course is geared toward students who have never played an instrument or who played an instrument in earlier grades before quitting. This course is also available to current Band or Orchestra students who desire to learn another instrument in addition to their primary instrument. In this course, students will play exercises and solos at an easy level, while learning musical skills in a group setting. Upon enrollment, students will meet with the course instructor to obtain an instrument on loan from school or through a rental program. Upon completion of the course, students will be encouraged to enroll in Concert Band/Marching Band. Students will not be permitted to enroll in this course as a replacement to Concert Band if they have participated in Band during the previous year at DHEMS or LAHS or have completed a year of Band Techniques. Students enrolled in Band Techniques will be invited to participate as a member of the Marching Dragons, though it would not be required.

GUITAR AND UKELELE **#744**
Grades 9-10 (1 Year, .5 Credit)
(other grades considered if open spots)

This course will teach students the basics of playing guitar and ukulele in a classroom setting. Students will learn basic vocabulary, develop technique, and apply their understanding with basic music reading skills. Students will work from a method book, lead sheets, and guitar/ukulele chord charts to perform easy songs. Students will also learn about the history of ukulele and guitar and their use in popular music. Students will perform individual and group exercises and will be given a portion of class time for personal practice throughout the course. Instruments will be provided for students to borrow while in class. This course is geared toward the beginning guitar player. Advanced players may not be appropriately challenged.

PIANO LAB **#743**
Grades 9-10 (1 Year, .5 Credit)
(other grades considered if open spots)

This is a beginning piano course, in a classroom setting, for individuals looking to discover and learn the basics of piano playing techniques. It is geared for those with very little or no piano instruction. Electronic keyboards and music software will be utilized. Class participants will learn basic music theory and notation as well as beginning piano techniques. Students will have the opportunity to prepare simple selections and create their own compositions.

CONCERT BAND/MARCHING BAND. **#740**
Grades 9-12 (1 Year, .5 credit)

Prerequisite: Participation in 8th Grade at DHEMS or Concert Band at LAHS or successful completion of Band Techniques course.

Band at LAHS encompasses both Concert Band and Marching Band as a single course. During the late summer and fall, the ensemble functions as the Marching Band. Attendance at Band Camp in early August is required. During the fall season, the Marching Band performs at all football games, pep rallies, school assemblies, community events, and parades in Lewisburg and neighboring communities. During the remainder of the year, the group functions as the Concert Band, presenting several concerts during the school year, as well as occasional community performances. The focus of Band class is to prepare repertoire, in a wide variety of styles, for public performance while simultaneously developing necessary skills to progress as an instrumental musician. Opportunities to participate in Susquehanna Valley Band, PMEA Festivals, and local Honors Bands provide additional outlets for band students to pursue their musical goals. Jazz Ensemble is an extra-curricular opportunity available to LAHS Band students, though a screening audition may be required for participation. Additional small ensembles may be established in a given year and are determined by availability of students and instrumentation.

HIGH SCHOOL ORCHESTRA **#750**
Grades: 9-12 (1 Year, .5 Credit)

Prerequisite: Prior instruction on at least one orchestral string instrument (violin, viola, cello, or string bass), ability to demonstrate certain aptitudes on that instrument, a knowledge of musical rudiments, and audition by the director.

High School Orchestra is a performance ensemble open to all students in grades 9-12 who play an orchestral string instrument. This ensemble is comprised of a string orchestra that may combine with wind/brass/percussion club players to form a symphony orchestra. Please note that students enrolled in High School Orchestra will be expected to attend several early morning rehearsals throughout the school year in conjunction with the Orchestra Winds/Brass/Percussion club. The group will present several concerts during the school year, likely one during the Fall, one during the Winter holiday season, and two during the spring term. Community performances may also be scheduled. Students will be responsible for learning their music. PMEA District, Regional, and State Music Festivals provide an opportunity to showcase our highly talented students in their pursuit of excellence.

CONCERT CHOIR **#760**
Grades 9-12 (1 Year, .5 Credit)

Many of the students who sing in the choir each year have had no previous musical experience. An ability to read music is not a required skill. Through membership in the group, that skill will be taught to each student. All styles of choral literature will be explored in reading situations and in preparation for performances. The Choir performs various concerts each year. Prominent conductors also work with the concert choir in clinic situations. All students who are enrolled in Concert Choir are responsible for the preparation and the adjudication of musical materials. Subject areas will include posture, breath control, attack tone, resonance, diction, range, intonation and vocal interpretation as involved in correct singing processes. Individual voice lessons through the use of an online educational platform will be utilized. Students will need to record their singing on a short excerpt of specified choral music and be required to sight sing. PMEA District, Regional, and State Choir Festivals provide an opportunity to enrich more advanced music students (beginning in 10th grade) in their pursuit of excellence.

CHAMBER CHOIR **#762**
Grades: 10-12 (1 Year, .5 Credit)

Prerequisite: A high degree of vocal proficiency, knowledge of the rudiments of music. *Admission to the group is by audition or invitation of the director.* Also, students must be a member in good standing of the Concert Choir in order to be considered for admission to the Chamber Choir.

The Chamber Choir is a small, select group of students with an arrangement of vocal balance designed to obtain a high degree of independence and performance. This course is designed to teach students the technical music skills of their respective instrument/voice and musicianship/sight-reading skills involved in the large and small group performance of the art. An investigation of all styles of music will be realized. PMEA District, Regional, and State Choir Festivals provide an opportunity to enrich more advanced music students (beginning in 10th grade) in their pursuit of excellence.. Chamber Choir is open to students in grades 10-12.

MUSIC THEORY I **#770**
Grades: 10-12 (1 Semester, .5 Credit)

Prerequisite: Active enrollment in an LAHS performing ensemble

Music Theory I is a beginning course in the fundamentals of music. Students interested in enrolling in the course should have some musical background playing an instrument or singing. The course will deal with key signatures, musical notation, triads and two- or four-part writing. An important aspect of the course is the improvement of musicianship through the recognition by sound of tonal and rhythmic patterns. Theory I is the first level of a three-level sequence of courses.

MUSIC THEORY II **#775**
Grades: 10-12 (1 Semester, .5 Credit)

Prerequisite: Music Theory I

Music Theory II is a sequential, elective course for students who have completed Music Theory I. Sight reading will be continued from the previous semester in addition to more advanced harmonic and rhythmic dictation. Written theory will also explore chord inversions and chromatic harmony. Students completing this course and Music Theory I are eligible to take the College Board Advanced Placement Exam for college credit.

AP MUSIC THEORY **#776**
Grades 11-12 (1 Year, 1 Credit)

Prerequisite: Music Theory II

AP Music Theory is a sequential elective for students who have completed Music Theory II. The course will explore all harmonic tools of the twentieth century through compositions done by students and presented in a classroom lab situation. Students will also be introduced to listening techniques and basic style analysis. Because of the emphasis placed on compositions and their live performance for the class, a significant amount of time will have to be spent outside the class on composition. Students completing this course and Music Theory I and Music Theory II, are eligible to take the College Board Advanced Placement Exam.

SCIENCE

Ninth grade students will have the opportunity to choose between two different pathways for science. Students may either take the traditional approach of Environmental Science and Ecology for 0.5 credit each and move to Biology during the 10th grade year. For those students who are seeking an earlier introduction to Biology, they may combine it with Ecology during the 9th grade year. Those students would also be responsible for taking an additional .5 credit during their 10-12 grade careers to ensure that they have access and instruction to the environmental standards. Students sit for the Keystone Exam after completion end of the Biology and Ecology courses.

ECOLOGY AND ENVIRONMENTAL SCIENCE **#565/#566**
Grade 9 (1 Year, 1 Credit)

These courses are designed for ninth grade students who will take two half-year courses each for .5 credit. Ecology will include the study of the distribution and abundance of organisms, the interaction among organisms, and the interactions between organisms and their abiotic environment. This course will also investigate the flow of matter and energy among organisms and between organisms and their environment in an ecosystem. Ecology includes lab investigations to help students better understand the connections between living organisms and their environment. Environmental Science is a laboratory course which investigates the Earth and the environment around us. Physical science and mathematical applications are used to help students explore the answers to questions about their surroundings. Students will explore the economic impact of environmental decisions. Both courses, allow students to gain deeper understanding of the ecological and environmental standards tested on the Biology Keystone Exam, taken in 10th grade.

BIOLOGY/ECOLOGY **#513/#565**
Grade 9 (1 Year, 1.5 Credits)

This course is designed for highly motivated students with a strong interest in science and science related careers, such as medicine and engineering. The topics will be covered in more detail and at an accelerated pace.. It offers an investigation of living things at the cellular and molecular (chemical) levels. This course is recommended for students interested in enrolling in Advanced Placement Biology as a junior or senior. Students taking this course will be taking the Keystone Biology Test at the completion of the course. There will be a limited number of sections available and will require an application, along with teacher input.

BIOLOGY **#510**
Grade: 10 (1 Year, 1 Credit)

This tenth-grade course offers an investigation of living things at the molecular, cellular and organism levels. An emphasis will be placed on the structures and processes necessary for all organisms to maintain life. Class activities and discussions will demonstrate the relevance of biology to our personal well-being and that of the planet. This course is designed for students who intend to continue their education at a four-year college but do not intend to major in science. The course is appropriate for those planning careers in nursing and medical technology.

HONORS BIOLOGY **#525**
Grade: 10 (1 Year, 1 Credit)

This course is designed for highly motivated students with a strong interest in science and science related careers, such as medicine and engineering. The topics will be covered in more detail and at an accelerated pace.. It offers an investigation of living things at the cellular and molecular (chemical) levels. This course is recommended for students interested in enrolling in Advanced Placement Biology as a junior or senior. Students taking this course will be taking the Keystone Biology Test at the completion of the course.

AP BIOLOGY **#545**
Grades: 11-12 (1 Year, 1 Credit)

Prerequisite: Biology or Honors Biology

This course is designed to be the equivalent of a college introductory biology course usually taken by biology majors during their first year. Some AP students, as college freshmen, are permitted to undertake upper-level courses in biology or to register for courses for which biology is a prerequisite. Other students may have fulfilled a basic requirement for a laboratory science course and will be able to undertake other courses to pursue their majors. The AP Biology course is designed to be taken by students after the successful completion of a first course in high school biology and one in high school chemistry. It aims to provide students with the conceptual framework, factual knowledge, and analytical skills necessary to deal critically with the rapidly changing science of biology. This is a very intensive course. It will expand on certain topics introduced in previous biology courses and introduce new topics as well. Students must expect summer and holiday assignments and they must recognize that there is a need to devote significant time to the course above and beyond scheduled class time. A high level of interest in science, self-discipline and self-motivation are required for success.

ENVIRONMENTAL STUDIES **#594**
Grades: 11-12 (1 Semester, .5 Credit)

The environmental studies course is designed to teach students what it means to engage with the world in a sustainable way. The topics of study include soil, water, and air quality, farming, climate change, and human impacts with a strong emphasis on local issues. The course will prepare students to complete field testing in various environmental factors, aggregate and interpret data, identify issues, and develop meaningful solutions. Students will also learn how to incorporate peer reviewed scientific research into their own understanding of the environment and learn how to use online tools that can expand and deepen their understanding of environmental issues

SUSTAINABILITY: FARM TO TABLE **#595**
Grades: 11-12 (1 Year, 1 Credit)

Students will learn the basics of organic vegetable and herb production. They will care for laying hens and manage a small aquaponics system. Topics will include soil health, organic farm production, water management, livestock and crop integration, local food systems, and more. Students will complete a long-term research project on a topic of interest.

AP ENVIRONMENTAL SCIENCE **#507**
Grades: 10-12 (1 Year, 1 Credit)

Note: Open to Grade 10 students who completed Biology

Prerequisite: Successful completion of Algebra I and Biology; Completion of Chemistry strongly recommended

AP Environmental Science is designed to be the equivalent of an introductory college course in environmental science. This course is a rigorous, in depth, study of advanced topics in environmental science. Students will be challenged to engage in higher order thinking with a foundation based upon significant amounts of reading, writing, and laboratory research.

CHEMISTRY **#580**
Grades: 11-12 (1 Year, 1 Credit)

Prerequisite: Enrollment in or completion of Algebra II

Students will study key concepts regarding the composition, structure, and properties of matter and how substances interact, transform, and change. Through classroom demonstrations, laboratory activities, and discussions, students will learn about the chemical make-up of the world and applications of chemistry. This course will serve as preparation for college chemistry for non-science majors.

HONORS CHEMISTRY **#575**
Grades: 10-12 (1 Year, 1 Credit)

Prerequisite: Enrollment in or completion of Algebra II

Students will investigate the composition, structure, and properties of matter and how substances interact, transform, and change. To prepare for college-level chemistry courses for science majors, a high concentration of content will be covered. To be successful in this course, a student must have a high level of interest in science, superior ability for independent learning, a desire to achieve to high levels, and intellectual curiosity not motivated by grades alone.

AP CHEMISTRY **#555**
Grades: 11-12 (1 Year, 1 Credit)

Prerequisite: Successful completion of Honors Chemistry: and Algebra II

.

Students taking this course must sign a contract provided by the chemistry teacher and complete a summer assignment reviewing chemistry in order to complete all course material within the allotted time. This course is designed to be the equivalent of the general chemistry 1, 2, and lab course typically taken during the first year of college. The college course in general chemistry differs qualitatively from the usual first secondary school course in chemistry with respect to the kind of textbook used, the topics covered, the emphasis on chemical calculations and the mathematical formulation of principles, and the kind of laboratory work done by students.

This is a very intensive course. It will expand on topics introduced in the first-year chemistry courses and introduce new topics as well. Students should recognize that there is a need to devote significant time (5 - 10 hrs/wk) to study and do homework beyond scheduled class time. Homework will be assigned every night (possibly including the nights that you do not have class). To be successful in this course, a student must have a high level of interest in chemistry, superior ability for independent learning, a desire to achieve to high levels, and intellectual curiosity not motivated by grades alone.

HUMAN ANATOMY/PHYSIOLOGY **#565**
Grades:11-12 (1 Year, 1 Credit)

Prerequisites: Successful completion of Honors Biology or Biology. Successfully completion of or taken concurrently with Chemistry or Honors Chemistry.

This course is the first part of a two-course sequence. This course is specifically designed for students intending to pursue a medical, science, or health-related career in college. This course will provide the student with an in-depth look at the human body and the way it works. It is a study of structure and function of the human body including cells, tissues and organs on the integumentary, skeletal, muscular and nervous systems. Extensive medical terminology will be studied and laboratory exercises, including dissections, are required.

ANATOMY II **#568**
Grade: 12 (1 Year, 1 Credit)

Prerequisite: Successful completion of Human Anatomy and Physiology I.

This is the second part of a two-course sequence. This course is specifically designed for students intending to pursue a medical, science, or health-related career in college. This course continues to explore the human body by studying the following organ systems: cardiovascular, respiratory, digestive, urinary and immune. Extensive medical terminology will be studied and laboratory exercises, including dissections, are required.

PHYSICS **#590**
Grades: 11-12 (1 Year, 1 Credit)

Physics is the final part of the high school science sequence and students will find it an interesting and useful part of their education. Topics include measurement of time and space, motion, forces, momentum, energy, and an introduction to sound, light, and nuclear physics, among other branches of this science.

AP PHYSICS 1 **#584**
Grades: 11-12 (1 Year, 1 Credit)

Prerequisites: Chemistry, Pre-Calculus, or concurrent Pre-Calculus

AP Physics I is the equivalent to a first semester college course in algebra/trigonometry-based physics. The course covers kinematics, dynamics, circular motion and gravitation, energy, momentum, simple harmonic motion, and torque and rotational motion. The content of this course focuses on eligible content found on the AP Physics I exam.

AP PHYSICS 2 **#586**
Grade: 12 (1 Year, 1 Credit)

Prerequisites: AP Physics 1, Pre-Calculus

AP Physics 2 is equivalent to most college-level introductory physics courses with a focus on the following topics: fluids, thermodynamics, electric force, fields, and potential, electric circuits, magnetism and electromagnetic induction, geometric and physical optics, and finally quantum, atomic, and nuclear physics. AP Physics 1 should be taken before this course, which covers traditional mechanics and other important introductory topics. Emphasis will be placed on understanding physical science literacy and applying physics. The content of this course focuses on material for the AP Physics 2 exam.

ASTRONOMY **#563**
Grades: 10-12 (1 Semester, .5 Credit)

Explore the vastness of our universe through an analysis of celestial objects, space, and the physical universe as a whole in this semester-long course available to 10th, 11th, and 12th grade students. Topics of study include the size and scale of our universe, a history of astronomy and important astronomers, tools of astronomy, and the composition of our universe (planets, stars, the solar system, galaxies) and the interaction of these components. Explore the universe with classroom discussion, laboratory experiments, and computer simulation and analysis.

METEOROLOGY **#562**
Grades 10-12 (1 Semester., .5 Credit)

Gain an appreciation for the complexity and delicacy of our atmosphere through this semester-long course available to 10th, 11th, and 12th grade students. Topics of study include an introduction to the weather and climate enterprise, atmospheric motion and energy transformation, tools and measurements in meteorology, severe weather, and weather forecasting. Investigate how the atmosphere affects humans, and how humans affect the atmosphere through classroom discussion, laboratory experiments, and computer simulation and analysis.

FORENSICS **#560**
Grades 11-12 (1 Semester., .5 Credit)

Let evidence reveal the truth... Delve into the limitless world of forensic investigations. This course is designed to emphasize the laboratory techniques used by forensic scientists in the analysis of crimes and the role of evidence in criminal and civil proceedings. Investigative procedures to be studied include crime scene processing and reconstruction, fingerprinting, evaluation of injuries and cause of death, determination of the post-mortem interval, forensic entomology, bite mark analysis, tool marks, ballistics, trajectory analysis, blood spatter analysis, and DNA analysis. Ethical issues and case studies of actual crimes will also be discussed.

SOCIAL STUDIES

AMERICAN CITIZENSHIP IN ACTION **#204**
Grade 9 (1 Semester, .5 Credit)

American Citizenship is designed to provide students with an understanding of the American political system, and the skills necessary to exercise their citizenship in a socially responsible manner, while attempting to foster positive attitudes about the role of the citizen in American democracy. The role and functions of national, state and local governments as they relate to the student/citizen's need for participation in government will be studied. Included will be the Constitution, Bill of Rights, political parties, elections, and the overall functioning of government. An emphasis will be on the practical applications and skills of the citizen in society and his/her relationship with government.

ECONOMICS **#205**
Grade 9 (1 Semester, .5 Credit)

Economics will describe the role that basic economics plays in understanding and improving the quality of everyday choice making. Economics plays a vital role in society, and that role will be examined through the choices made in the marketplace and the voting booth, especially regarding trade and exchange. The relationships between nations, as well as the everyday political affairs within the U.S. will be examined in an economic context.

WORLD HISTORY **#219**
Grade 10 (1 Year, 1 Credit)

This course explores the historic contributions of states and individuals from around the world from the Renaissance until today. Students study units on Europe, China, the Middle East, Japan, North, Central and South America, Africa, and South and Eastern Asia. Students will explore developments and conflicts that led to the spread of democracy and capitalism along with other political and economic traditions that continue today. Students will review the social, cultural and political effects of western imperialism and how nationalistic competition helped cause two world wars. Throughout the year, students will consider how past events continue to affect the world today and why it is important to be informed about history and current events.

AP EUROPEAN HISTORY **#292**
Grades 10 (1 Year, 1.0 Credit)

The study of European history since 1450 introduces students to cultural, economic, political, and social developments that shaped the world in which they live. The course is designed to prepare students for the Advanced Placement European History exam. Students will explore the development of contemporary institutions, the role of continuity and change in society, and the evolution of art and intellectual discourse. The key goals of the course are to develop (a) an understanding of principal themes in modern European History, (b) an ability to analyze and interpret primary sources, and (c) an ability to express historical comprehension in writing.

AP SEMINAR **#294**
Grade 10 (1 Year; 1.0 Credit)

Prerequisite: Writing sample application; enrollment in Honors English 10; history of strong work ethic and ability to work both independently and with a group.

AP Seminar engages students in cross-curricular conversations that explore the complexities of academic and real-world topics by analyzing various perspectives. Students will conduct peer-reviewed academic research, develop their own perspectives in written essays, and defend their solutions through individual and team presentations. This course equips students with the skills to research, evaluate, and defend solutions through a multidisciplinary lens.

HUMAN CULTURE AND SOCIETY: ORIGINS **#217**
Grades 10-12 (1 Semester., .5 Credit)

This one semester course will focus on the origins of world cultures and how they developed from their earliest expressions until the Renaissance. Students will examine primary sources including artworks, artifacts and written resources to explore western, eastern, middle eastern, and tribal cultures from around the world. The course will begin with the study of archeological and evolutionary records of human development and work through the foundations of western society. Students will study the origins of cultural practices including religion, dance, theater and literature, and consider continuity and changes in these practices over time.

AMERICAN HISTORY **#200**
Grade: 11 (1 Year, 1 Credit)

This course is designed to present American history and culture from 1865 to the present. American History is a general survey course which includes such topics as reconstruction, westward and imperialist expansion, military conflicts and their resolutions, civil rights, the presidencies, business, labor, immigration and minority's conflicts and accomplishments.

AP U.S. HISTORY **#293**
Grade: 11 (1 Year, 1 Credit)

To give students an in-depth course in American History in preparation for the Advanced Placement United States History Test. In addition, college bound students with a strong interest in United States History should benefit from the design and requirements of the course. The course will focus on the intellectual, cultural, social, economic, and political history of the United States. Students should obtain a detailed knowledge of United States History through the use of text and supplemental readings, and individual research and writings.

INTRODUCTION TO PSYCHOLOGY **#245**
Grades: 10-12 (1 Semester, .5 Credit)

This course is designed to introduce students to the study of mental processes and human behavior. Course content will explore a variety of topics including research methods and applications, child and adolescent development, the aging process, altered states of consciousness, and learning through classical and operant conditioning. Students will also study psychologists who have made significant contributions to the field and examine how the scientific study of psychology continues to evolve.

INTRODUCTION TO SOCIOLOGY **#254**
Grades 11, 12 (1 Semester, .5 Credit)

In this course, students will study groups and how they affect people's lives and behavior. They will study the patterns of behavior that become norms and the consequences, positive and negative, for breaking norms. Units in the course include Founders of the Field, Research Methods, Culture and Society, Socialization, Social Structure, Groups and Organizations, Deviance and Social Control, Inequality and Discrimination and Social Institutions. Throughout the course students will consider issues of continuity and change in social norms over time. To explore topics, students will use a variety of sources including textbook readings, primary resources, film, government records and data from esteemed polling institutions.

AP ECONOMICS **#281**
Grades 11-12 (1 Year, 1 Credit)

An understanding of economics is important to your everyday life. Economics helps you make more informed decisions as a consumer, worker, and citizen. Economics is divided into two major types of theory. Microeconomics is concerned with individual producing or consuming units and generally involves individual decisions. Macroeconomics is concerned with the economy as a whole and generally examines social economic decisions. This course prepares students for the Advanced Placement examination. Although not required, completion of the AP Exam is highly recommended.

LIVING GLOBALLY IN THE 21ST CENTURY WORLD **#217**
Grades:11-12 (1 Semester, .5 credit)

This elective course, aligned with Pennsylvania State Standards in History, Geography, Civics & Government, and Economics, will utilize a student-centered approach promoting inquiry into relevant topics of the contemporary world. Issues to be covered will include but are not limited to social movements, political ideologies, economic patterns, cultural events, military conflicts, globalization, evolving technology, trade, treaties, terrorism and the role of media in the modern world. Taught in a seminar format, students will research and discuss topics connecting the significance of today's current events, their historical background and their impact in shaping tomorrow's world.

AP GOVERNMENT & POLITICS **#290**
Grade: 12 (1 Year, 1 Credit)

This class is designed as an elective for those students who are college bound and want the challenge of a course that is designed to be a freshman level college course. During the month of May the students have the opportunity to take a test offered by the Educational Testing Service. If students score well on the test, they may receive some college credit. The AP Government & Politics: United States course provides an analytical perspective on government and politics in the United States. This course involves both the study of general concepts used to interpret U.S. politics and the analysis of specific case studies. It also requires familiarity with the various institutions, groups, beliefs, and ideas that constitute United States' political reality. The basic content areas will include: 1) Constitutional Underpinnings of United States Government, 2) Political Beliefs and Behaviors, 3) Political Parties, Interest Groups, and Mass Media , 4) Institutions of National Government: The Congress, the Presidency, the Bureaucracy, and the Federal, 5) Public, and 6) Civil Rights and Civil Liberties.

AP ART HISTORY **#725**
Grades 11-12 (1 Year, 1 Credit)

The AP Art History course is equivalent to a two-semester introductory college course that explores the nature of art, art making, and responses to art. By investigating specific course content of 250 works of art characterized by diverse artistic traditions from prehistory to the present, the course fosters in-depth, holistic understanding of the history of art from a global perspective. Students become active participants in the global art world, engaging with its forms and content. They experience, research, discuss, read, and write about art, artists, art making, responses to, and interpretations of art.

WELLNESS

PHYSICAL EDUCATION **#320/321**
Grades: 9-12 (1 Year, .5 Credit)

Students will be given the opportunity to participate in team, individual, and fitness activities during the school year. Activities may include soccer, speedball, lacrosse, field hockey, basketball, volleyball, softball, ultimate Frisbee, flag football, floor hockey, team handball, pickleball, badminton, weight training, core training, cardiovascular conditioning, or lifetime activities. Students will participate in all of these activities over the four years of high school. Students will have the opportunity to assess personal strengths and weaknesses to allow them to select activities most appropriate to their personal goals. Through active participation, opportunity is given to students to develop desirable attitudes of sportsmanship, cooperation, responsibility, appreciation of the skill of others, and an understanding of the strategies employed while playing a particular sport.

LIFETIME FITNESS **#313/314**
Grades: 9-12 (1 Semester .5 Credit)

This course will be offered as an alternate Physical Education Elective in place of the Physical Education 9-12 Course. Students will study the components of fitness and the principles of exercise. Using this knowledge, students will develop and follow a personal fitness program with the approval of the instructor. Students will participate in various activities that will help them stay active and fit throughout life. Activities will include walking, use of cardio machines, weight training exercises, stability ball exercises, stretching and yoga exercises, jogging etc.

HEALTH EDUCATION **#339**
Grades: 9-10 (1 Semester, .5 Credit)

Health Education is an introductory course that covers a variety of health-related topics that includes personal health, nutrition, and fitness, preventing disease and injury, growth, development, and sexuality, substance abuse, and mental health and community health issues.

DRIVERS EDUCATION **#307**
Grades: 9-11 (I semester, .5 Credit)

This course prepares students for the Knowledge Exam to acquire a learner's permit. Driver Education then continues to describe, discuss, and practice various driving techniques in preparation for the Road Test to acquire a junior license as well as independent driving throughout a lifetime. Along with the testing process, other topics covered in this course include, but are not limited to, driver responsibility; signs, signals, and pavement markings; basic car controls; decision making process of driving (IPDE: Identify, Predict, Decide, Execute); natural laws of physics in regard to driving; basic car maneuvers; Pennsylvania Point System; negotiating intersections safely; sharing the road with other vehicles; differences between rural, city, and highway driving; driving in adverse weather conditions; the dangers of distracted driving; and handling emergencies. **Although this course is an elective, it is highly recommended**

WORLD LANGUAGES

Note: For Level III and above, it is recommended that students obtained an 83% in the previous year's world languages courses.

FRENCH I **#600**
Grades: 9-12 (1 Year, 1 Credit)

Students in French I will focus primarily on securing a Novice Low level of proficiency in interpretative, interpersonal, and presentational modes of communication (reading, writing, speaking, and listening). Students will also continue developing an understanding of French speaking cultures. By the end of the course, students should be able to identify memorized and familiar words when they are supported by gestures and visuals in informational texts, fictional texts, and conversations. With the help of gestures and visuals, students should be able to answer simple questions, express basic needs, and express feelings using memorized words and phases. Additionally, students should be able to introduce themselves, express likes and dislikes, and name familiar people, places, and objects. Throughout the course, students will develop the ability to show basic cultural awareness when communicating with others from the target culture.

FRENCH II **#605**
Grades: 9-12 (1 Year, 1 Credit)

Students in French II will focus primarily on securing a Novice Mid level of proficiency in interpretative, interpersonal, and presentational modes of communication (reading, writing, speaking, and listening). Students will also continue developing an understanding of French speaking cultures. By the end of the course, students should be able to identify some basic facts from memorized and familiar words and phrases when they are supported by gestures and visuals in informational texts, fictional texts, and conversations. Using a mixture of practiced or memorized words, phrases, simple sentences, and questions, students should be able to: ask and answer simple questions; express basic needs; and express preferences, feelings, and react to those of others. Additionally, students should be able to present information about themselves, express likes and dislikes, and present on familiar, everyday topics. Throughout the course, students will continue developing the ability to show basic cultural awareness when communicating with others from the target culture.

FRENCH III **#610**
Grades 10-12 (1 Year, 1 Credit)

Students in French III will focus primarily on securing a Novice High level of proficiency in interpretative, interpersonal, and presentational modes of communication (reading, writing, speaking, and listening). Students will also continue developing an understanding of French speaking cultures. By the end of the course, students should be able to identify the topic and some isolated facts and elements from simple sentences in informational and short fictional texts, and understand familiar questions and statements from conversations. Using simple sentences and questions to keep the conversation on topic, students should be able to request and provide information by asking and answering a few simple questions. Additionally, students should be able to interact with others to meet basic needs related to routine everyday activities, and express, ask about and react to opinions, preferences or feelings. Throughout the course, students will continue developing the ability to show basic cultural awareness when communicating with others from the target culture.

FRENCH IV **#615**
Grades 11-12 (1 Year, 1 Credit)

Students in French IV will focus primarily on developing an Intermediate Low level of proficiency in interpretative, interpersonal, and presentational modes of communication (reading, writing, speaking, and listening). Students will also continue developing an understanding of French speaking cultures. By the end of the course, students should be able to identify the topic and related information from simple sentences in informational and short fictional texts and understand the main idea in short conversations. Using simple sentences and asking appropriate follow-up questions, students should be able to request and provide information in conversations on familiar topics. Additionally, students should be able to interact with others to meet basic needs in familiar situations, and express, ask about and react with some details to opinions, preferences or feelings on familiar topics. Throughout the course, students will continue developing the ability to show basic cultural awareness when communicating with others from the target culture.

FRENCH V **#620**
Grades: 11-12 (1 Year, 1 Credit)

Students in French V will focus primarily on securing an Intermediate Low level of proficiency and developing an Intermediate Mid level of proficiency in interpretative, interpersonal, and presentational modes of communication (reading, writing, speaking, and listening). Students will also continue developing an understanding of French speaking cultures. By the end of the course, students should be able to identify and understand the main idea and key information in short straightforward informational and short fictional texts, and understand the main idea and key information in short conversations. Using a series of sentences and asking a variety of follow-up questions, students should be able to exchange information in conversations on familiar topics and some researched topics. Additionally, students should be able to interact with others to meet their needs in a variety of familiar situations, exchange opinions, preferences or feelings, and provide general advice on a variety of familiar topics. Throughout the course, students will continue developing the ability to show basic cultural awareness when communicating with others from the target culture.

GERMAN I **#625**
Grades: 9-12 (1 Year, 1 Credit)

Communication is the function of all languages. To that end, the basic skills of listening, reading, speaking and writing German will be taught. Students will be introduced to culture and geography of the German speaking countries. A good grasp of English grammar is desirable and a willingness to participate orally in class.

GERMAN II **#630**
Grades:10-12 (1 Year, 1 Credit)

The skills of listening, reading, speaking and writing German will continue to be developed in various formats. The study of German culture is expanded.

GERMAN III **#635**
Grades: 11-12 (1 Year, 1 Credit)

The skills of listening, reading, speaking and writing German will continue to be the focus of this course. The course will build on what was taught in German 1 and 2 with the goal of higher proficiency in all four skills.

GERMAN IV **#640**
Grades: 11-12 (1 Year, 1 Credit)

The skills of listening, reading, speaking and writing German are taught with the goal of a higher degree of proficiency. More advanced grammar concepts will be studied. Students' knowledge of geography, history, and modern German culture are developed through readings in the target language.

SPANISH FOR HERITAGE SPEAKERS **#668**
Grades: 9-12 (1 Year, 1 Credit)

This course is for native Spanish speakers who wish to improve their reading, writing, listening, and speaking of the language. Grammar studies will include work on accents, punctuation, spelling, tense usage, and sentence structure in Spanish. Content will focus on writing skills, reading comprehension, analytical skills, and public speaking skills, along with the examination of the history and culture of the Hispanic world. Students will also focus on how to use their bilingual ability in professional settings.

SPANISH I **#665**
Grades: 9-12 1 Year, 1 Credit)

Communication is the function of all languages. For this reason, students are strongly encouraged to participate actively and orally in class in a variety of activities. Students will also practice reading and writing skills using a variety of formats including essays, skits, and presentations.

SPANISH II **#670**
Grades: 9-12 (1 Year, 1 Credit)

Students will continue to study vocabulary and grammar, building upon what they learned in Spanish I. Students will practice writing, reading, listening and speaking skills using a variety of formats including essays, conversations, skits, and presentations.

SPANISH III **#675**
Grades: 10-12 (1 Year, 1 Credit)

Students will refine and add fine detail to the grammatical aspects studied in Spanish I and II as well as expand their grammatical studies and vocabulary. Students will practice these skills using a variety of formats including essays, conversations, skits, and presentations.

SPANISH IV **#680**
Grades: 11-12 (1 Year, 1 Credit)

Students will continue to refine the skills previously acquired. The class will be conducted largely in Spanish. The students will practice newly acquired vocabulary and grammatical concepts using a variety of formats including essays, conversations, skits and presentations.

SPANISH IV/V **#683**
Grade: 11 (1 Year, 1 Credit)

Prerequisite: Due to the accelerated pace and intensity of study in this course, students shall show demonstrated understanding of Spanish III, having attained an 88% average or better in the course and on the Spanish III final exam. Students should enroll in this class with the expectation of the course rigor and the end goal of taking AP Spanish and AP Spanish exam in the senior year . The course will hold honors weight.

This course is designed to prepare students for AP Spanish. This class will move at an accelerated pace and cover units of study that are normally taught during Spanish 4 and 5. This course focuses on reinforcing students' skills across the three modes of communication (interpretive, interpersonal, and presentational) and will continue to develop and refine proficiency in reading, writing, listening, and speaking. Students will communicate using more complex language structures on a variety of topics. Readings include a variety of authentic texts, including poetry, fiction, and newspaper articles. More formal writing is introduced. Students will also make connections to other disciplines (art, history, and geography), and develop insight into the nature of language and culture. Classes are taught primarily in Spanish and students are encouraged to communicate, even among themselves, in Spanish. Class participation is essential towards the development of oral proficiency. Daily practice and preparation outside of class is necessary for language skill development.

SPANISH V **#685**
Grades 11-12 (1 Year, 1 Credit)

The course is designed to refine the four skills; listening, speaking, reading and writing. Students are expected to speak only in Spanish. The study of vocabulary and grammar continues to be important. Daily speaking and spontaneous descriptions of situations will enhance the student's oral skills. Students will explore the history and culture of the Spanish-speaking world through the reading of Mexican legends and adapted versions of Hispanic literature.

AP SPANISH LANGUAGE **#691**
Grade: 12 (1 Year, 1 Credit)

This course is equivalent to an intermediate level college course in Spanish and directly prepares students for the AP Exam. Students cultivate their understanding of Spanish language and culture by applying interpersonal, interpretive, and presentational modes of communication in real-life situations as they explore concepts related to family and communities, personal and public identities, beauty and aesthetics, science and technology, contemporary life, and global challenges. This course stresses vocabulary, oral skills, composition and grammar and requires students to use Spanish for active communication. It also focuses on the integration of authentic resources including online print, audio, and audiovisual resources; as well as traditional print resources that include literature, essays, and magazine and newspaper articles; and also a combination of visual/print resources such as charts, tables, and graphs; all with the goals of providing a diverse learning experience. In order to promote proficiency, this class is conducted exclusively in the target language. This successful completion of 4/5 or its equivalent is a requirement for this class.

SUN AREA TECHNICAL INSTITUTE PROGRAM

SUN Area Technology Institute (SUN ATI) courses are designed to prepare students for future employment and/or education beyond high school. All SUN ATI programs are tech prep certified leading to higher education choices at over 45 Pennsylvania post-secondary schools. Students electing this program may attend the technical school full-time in the twelfth grade or earlier with the permission of the high school principal. Students will follow the SUN ATI school calendar. Students attending SUN ATI remain students at Lewisburg Area High School, and they may participate in all athletic programs, assemblies and graduation activities. SUN ATI is an extension and a vital part of Lewisburg Area High School.

PROGRAMS OF STUDY:

- Advertising Art & Design
- Auto Technology
- Carpentry
- Collision Repair
- Computer Networking & Technology
- Cosmetology
- Criminal Justice
- Dental
- Diesel & Truck Technology
- Electrical
- Health 114 - Nurse Aide
- Health 201-PCT
- HVAC
- Masonry
- Mechatronics
- Precision Metalworking
- Welding
- Wood Design & Technology

For more information on each program: https://sun-tech.org/programs/

Students who plan to attend the SUN Area Technical Institute during their senior year should complete the following credits by the end of their junior year:

English:	3.0 credits
Social Studies:	3.0 credits
Mathematics:	3.0 credits
Science:	3.0 credits
Health:	0.5 credit
Physical Education:	1.5 credits (.5 to be completed during senior year)

In addition, students must demonstrate proficiency in Algebra, Biology, and English Literature through a proficient score on each respective Keystone Exam or through successful completion of the Performance Based Assessment in each subject.

Note: Students attending SUN ATI during their senior year need 3.0 credits each of Math, Science and Social Studies, and English, a Graduation Project and successful completion of a course of study from SUN ATI for graduation.

SUN ATI TO LEWISBURG GRADING CONVERSION

	SUN ATI	LEWISBURG
A	**94-100**	**92-100**
B	**86-93**	**83-91**
C	**78-85**	**74-82**
D	**70-77**	**65-73**
F	**Below 70**	**Below 65**

Example: a 94 at SUN ATI = 92 at Lewisburg

Students registering for SUNATI should complete an Application Form available in the Guidance Office. On the LAHS Course registration form, students should register for:

1. **#999 – SUN ATI PROGRAM. (7.5 credits)**
2. **#306 – SUN ATI PHYSICAL EDUCATION (.5 credit)**
3. **#997 – SUN ATI MATH (if needed)**

SUN ATI PHYSICAL EDUCATION

All contract physical education students are required to fulfill the time requirements set forth by their individual elected activities. The activities may include jogging, walking, tennis, volleyball, roller skating, varsity sports, dance, exercises, weight training and bowling. This is a requirement for graduation.

SUN TECH MATHEMATICS PROGRAM

The programs at SUN ATI require that every student have proficiency in basic math including addition, subtraction, multiplication, division, usage of decimals, usage of fractions and percentages. Every student takes a diagnostic test at the beginning of the school year. If students do not pass this test they must take a remedial math course in order to graduate from SUNATI.

Math courses are offered to those students who need Math credits to graduate or to those students who are furthering their education and want to keep their math skills sharp. Our goal is to have students prepared for post high school employment, trade school, two-year and/or four-year college programs. The following math courses are offered:

Integrated Math: covers basic math skills as well as probability and statistical measure. It also covers selected topics in Algebra, Geometry and Trigonometry.

Pre-Algebra: covers topics such as solving equations, inequalities, factors, fractions, exponents, ratios, proportions, percents, graphing, area, volume and right triangles.

Algebra 1: includes working with real numbers, solving equations and inequalities, polynomials, factoring, fractions, exponents, and graphing and working with functions.

Algebra 2: expands on all concepts in Algebra 1 and also includes linear functions and equations, rational expressions, irrational and complex numbers and solving quadratics.

Geometry: topics include, angle relationships, congruent and similar triangles and polygons, circles and constructions, coordinate geometry and areas and volumes of polygons, quadrilaterals and circles.

Trigonometry: covers all the trigonometric functions (including graphing), application of trigonometric identities, solving triangles, inverse functions and equations, and polar coordinates.

Calculus: topics include functions, graphs, limits, differentiation, exponential and logarithmic functions and integration.

AREA TECHNICAL INSTITUTE

Course Catalog 2022/2023

SUN Tech will provide equal access regardless of race, color, age, creed, religion, sex, sexual orientation, ancestry, national origin, handicap/disability or genetic information, in its admission procedures, educational programs and activities or employment practices as required by Title VI, Title IX and Section 504.

Student Occupationally & Academically Ready (SOAR) Credits

SOAR is a Pennsylvania Department of Education Program that eases student's path from high school to college into high demand occupations by allowing students to earn college credits while still in high school. Learn more at www.collegetransfer.net.

SOAR
Students Occupationally and Academically Ready

Dual Enrollment Programs

Here's How Penn College NOW Courses Benefit Students

SAVE MONEY!

Tuition for Penn College NOW is free for students! The more Penn College NOW courses a student takes (*at no per-credit cost),* the less money a student has to spend once it's time to earn a degree after high school.

BUILD CONFIDENCE!

No matter what you plan to do after graduation, if you have already shown success in college courses, you will be more competitive in both the job market and the college admissions process. Success in challenging coursework builds confidence as well as skills!

SAVE TIME!

Students who have already taken college coursework spend less time earning a degree.

PREP FOR COLLEGE

Connect to "the college experience!" Through Penn College NOW, students have the chance to visit our campus, see our facilities, and meet our college faculty.

WHY CHOOSE SUN TECH?

Here are the Top 5 Reasons Why You Should Attend SUN Tech.

5. WE HAVE A HISTORY OF SUCCESS

A driven individual combined with a SUN Tech education is a proven recipe for success, and our reputation in the Snyder, Union and Northumberland county areas tells us that employers like what we're cooking. SUN Tech graduates are coveted by local businesses, but they also go on to become successful business owners too!

4. YOU CAN EARN COLLEGE CREDITS AND ADVANCED PLACEMENT

SUN Area Technical Institute has worked *tirelessly* with local colleges and universities to add value to your technical education. Through dual enrollment programs with institutions like Penn College of Technology and Bloomsburg University, you can **earn up to 15 college credits during your senior year** of high school which translates to *thousands of dollars in savings* on tuition!

3. YOU CAN EXPERIENCE THROUGH COOPERATIVE EDUCATION

Employers want to hire candidates with experience, but in order to gain experience somebody needs to hire you first. Talk about a vicious cycle! SUN Tech has the reputation and connections to get students hired through our co-op program while they're still in high school. You'll gain valuable on-the-job experience, you'll have a blast doing it, and some co-op students are even offered full-time employment after graduation.

2. YOU'LL GIVE BACK TO YOUR COMMUNITY

SUN Tech is actively involved in community outreach and community service efforts. We actively engaged in our community by building projects to support our local community and their organizations. We also participate in raising money and goods for many local charities.

1. YOU CAN EARN VALUABLE INDUSTRY CERTIFICATIONS

The Harvard Graduate School of Education released a report which claims that industry certifications are just as valuable as a college degree– if not more so– in the pursuit of employment in many fields. At SUN Tech *we prepare you so* you can fly into employment or higher education: you have the potential to leave certified or ready to test for certification.

ADVERTISING ART & DESIGN

Are you an aspiring designer? Would you like to get paid for your creativity?

If you have a passion for design, a need to be creative, and a dream of becoming a successful graphic designer, then the Advertising Art & Design program at SUN Tech is for YOU!

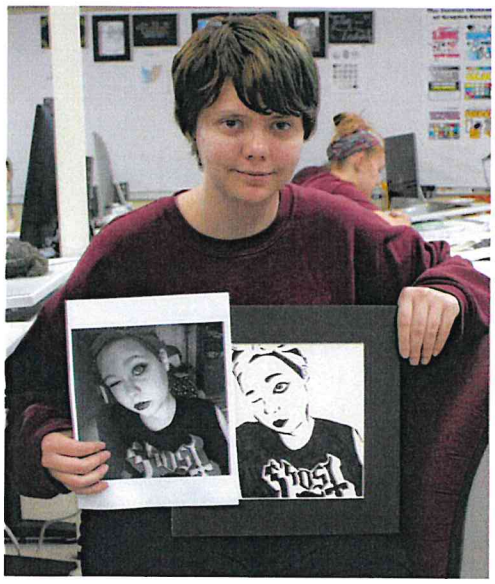
Certifications Offered:

- OSHA 10

Outcomes: You can experience a broad range of creative careers while still in high school so that you can:

- Discover where your talent lies
- Develop a professional portfolio
- Be successful at design college
- Obtain a job you actually love

You will use the most modern technology and techniques to increase your skills in graphic design, illustration and photography.



Description: The program emphasizes your creative growth through instruction in art principles as well as technology skills through computer-based projects. You will gain a working knowledge of color, typography, layout, and printing while you master Adobe software on the Mac and PC. You may find employment in graphic design, advertising, publishing, web page design, illustration, or photography. Salaries in this field range from $27,200 to $81,620 yearly within our local area

AUTO TECHNOLOGY

Do you like to take things apart to see how they work? Do you like mechanical things like motors and engines?

Make money while enjoying what you do! The Automotive Technology Program at SUN Technical Institute will teach you what you need to know to diagnose and repair vehicles, so you can make a great living doing something you love to do!

Outcomes: You will have the opportunity to obtain a PA State Inspection License, Air Conditioning Certification, SP/2 Safety Certification, Valvoline Oil Certification, and NATEF Certification. The certifications and skills learned allow you to enter the automotive repair industry with skills and certification to back up those skills. You also have the opportunity to qualify for advanced placement at post-secondary institutions such as Penn College, Harrisburg Area Community College, and Northwestern Ohio.

Entry-level auto technicians generally earn around $10.00 per hour, progressing up to $30.00 per hour with experience and training. An "A" level technician in a mid-sized city such as Scranton can earn up to $100,000 per year. The education received through the Automotive Technology Program allows you to climb this salary ladder very quickly.

Description: In the Automotive Technology course at SUN Tech, you are given the opportunity to learn the necessary skills and competencies to maintain, diagnose and repair the advanced systems on modern automobiles. You can use common hand tools as well as power tools such as impact wrenches, grinders, drills, tire machines and automotive lifts. You will also be using state-of-the-art equipment such as electronic engine analyzers, oscilloscopes, scan tools and internet -based information systems.

Certifications:

- PA State Inspection
- Section 609 Cert
- ASE Brake
- ASE Elect Systems
- ASE Engine Repair
- ASE Suspension/Steer
- ASE Engine Performance
- SP2 Pollution Prevention
- SP2 Mechanical Safety
- SP2 Land that Job
- American List
  Valvoline Motor Oil Cert

CARPENTRY

If you like working with your hands, if you love to build projects, problem-solve, and tackle new challenges every day, visit the Carpentry Program at SUN TECH.

Outcomes: Learn skills in carpentry that you will use the rest of your life whether on the job in construction or on your own home. You will also have the opportunity to earn dual enrollment college credits while completing the carpentry curriculum.

Description: As a SUN TECH carpentry student, you will learn all aspects of residential and light commercial construction through classroom theory and practical shop instruction and projects. All areas of residential construction will be covered, including but not limited to, floor, wall and roof framing, exterior and interior finish

Look what you can learn in the Carpentry Program:

- Learn the skills necessary to properly build a house
- Work in a team setting.
- See the day go by so quickly you will wonder what happened to the time.
- Work on community service projects off campus.
- Use the most advanced tool, equipment and materials
- Be challenged every day by your instructor
- Earn college credits
- Do something different everyday

Emphasis is placed on developing the skills you will need for your future as a contractor.

Certifications Offered:

- OSHA 10

Dual Enrollment PC NOW Courses you can complete while in this program:

- BCT102 Construction Hand & Power Tolls– 1 credit

COLLISION REPAIR TECHNOLOGY

DON'T GET BENT OUT OF SHAPE OVER YOUR FUTURE.

Become a Collision Repair Technician and learn to straighten damaged cars and your future. You will learn many techniques seen on the TLC channel with host "Chip" Foose and others.

Outcomes: By developing the skills necessary to become an entry level Collision Repair technician you can secure a high paying job and earn college credits. You will have instruction in State-of-the-Art I-CAR certified repair techniques in the following areas: Non-structural analysis and damaging repair, painting and refinishing, plastics and adhesives, structural, analytic and damage repair. With great attendance and grades, you can participate in the Co-op program and earn a salary during second semester of the school year.

Description: The Collision Repair Technology course at SUN Tech has been evaluated by the "National Automotive Technicians Education Foundation, Inc." (NATEF) and certified by the "National Institute for Automotive Service Excellence" (ASE). The course includes theoretical study and practical application in all areas related to the collision repair industry including major and minor collision repair, MIG welding, base-clear and tri-coat refinishing, color matching and blending, SMC and urethane plastic repair, glass service, and supplement restraint systems. You will be evaluated on practical hands-on application skills and through ASE type-written examinations. You may be eligible for one-year service credit toward applying for ASE certification in any or all of the four specialized technical areas within the trade. Related areas of employment are: insurance adjustor, automotive refinish, parts and sales, and assembly line refinishing.

Dual Enrollment PC Now Courses you can complete while in this program:

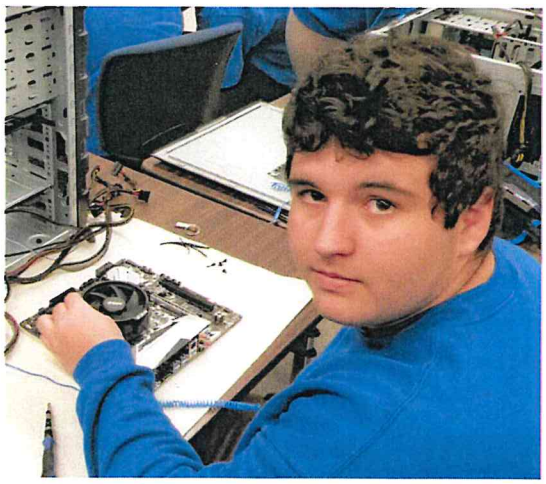
- ABC100-Introduction to Non-Structural Collision Repair 2 credits
- ABC104-Introduction to Non-Structural Collision Repair Applications 3 credits
- ABC125-Basic Refinishing 2 credits
- ABC129-Basic Refinishing Applications 3 credits

Certifications Offered:

- C-Tech Network Cabling Copper Based Systems
- C-Tech Network Cabling Fiber Optic-Based System
- Levit on Cabling Cert

Dual Enrollment PC NOW Courses you can complete while in this program:

- EET 145-Introduction to Networking 4 Credits



COMPUTER & NETWORKING TECHNOLOGY

ARE YOU A COMPUTER GEEK OR HAVE GEEK ENVY? Do you love working with computers?

Do you love working with technology? Do you love taking computers apart and putting them back together? Do you ever wonder how you can send an email half-way around the world in less than a second? Do you ever think about how data travels down fiber optic cable as modes of light, turning on and off millions of times per second? Would you love to know how to build that water cooled, Monster Machine that will make all your friends green with envy? If you answered "yes" to any of these questions, you need to check out the Computer Networking Technology program at SUN Tech.

Outcomes: You can learn entry level skills in Computers, Network installation, Web Design, Web Animation, Network Administration, and Fiber Optics that will help you prepare for an exciting and well-paying career in the computer field

Description: As a SUN Tech Computer and Networking Technology student, you will learn a wide range of skills that will enable you to get an entry level job, skills to give you a head start on college, and even a way to make good money while going to college!

- Build, upgrade and repair computers
- Setup and configure routers, switches, firewalls, and servers
- Design web pages and flash animations
- Administer a computer network, setting up user accounts, servers, etc.
- Become certified in copper and fiber option network cabling
- Use cutting edge technology to prepare you for the workforce.
- Build laptop computers that you will use throughout the year.

COSMETOLOGY

Whether you have always had a love for hair and makeup, nail care and beauty or whether you are looking for a career with exciting diverse opportunities, driven by a sense of fashion and business; Cosmetology at SUN Tech can set you on a fast track to a successful future.

By starting your cosmetology training while you are in high school you will be able to make a smooth transition to a college related partner career, pursue advanced training in the cosmetology profession or you can opt to begin a lucrative wage-earning career working in or owning a salon or spa. And best of all, you have the choice of working in a local salon and staying close to home or traveling to Hollywood, the fashion stages of New York or the platform arenas of competitive styling around the world!

Outcomes: The Cosmetology Program at SUN Tech is designed to provide you with the necessary education needed to pass the Pennsylvania State Board Exam for licensing; but more importantly prepares you to successfully pursue career opportunities in all aspects of the beauty industry. Whether you wish to pursue a job as a hair stylist, beauty therapist, or nail technician; or whether you wish to pursue a job working in sales, marketing, education or business management for a beauty manufacturer or company; it can all begin with a decision to start your beauty education while in high school.

Description: The Cosmetology course at SUN Tech includes: theoretical studies and the application of all aspects of hair, skin and nail care; including anatomy/physiology, decontamination, safety and management. Eighty percent of all course activities are hands-on applications including the operation of a clinic/salon area where you will work on clients just as you would in a licensed salon.

The topics and skills covered include hairstyling, hair cutting, hair coloring and lightening, chemical texture services, braiding, skin care, massage, makeup, hair removal, nail care, artificial nails, male hair cutting and styling and product knowledge.

Cosmetology Licensing:

- 1250 hours of supervised instruction required for the PA State Board of Cosmetology licensing examination
- 300 hour summer program at SUN Tech prior to your senior year at SUN Tech.

Students who successfully complete 1250 hours of instruction will have the opportunity to complete their PA State Board Certification for Cosmetology. In order to obtain the certification you must pass the exam.

Certifications:

- OSHA 10

CRIMINAL JUSTICE

Are you a people person who enjoys interacting with all types of people, using your mind to look at things from different perspectives, or solving puzzles?

Become a part of an exciting criminal justice career! Television, movies, and video games only show a portion of the many rewarding career opportunities awaiting you. Criminal justice is the second largest employer in the Susquehanna Valley and offers entry level salaries ranging from $ 30,000 to over $75,000 annually.

Outcomes: As a SUN TECH criminal justice student, you will have the opportunity to earn up to 6 college credits while building an impressive resume with many industry recognized certifications.

Description: This program offers the entry-level skills and knowledge required for employment in criminal justice professions such as police officer, security officer, correctional officer, 911 dispatcher, store security and military police. These skills are acquired through a combination of classroom training and hands-on experience. The program offers job shadowing experiences, featured guest speakers, and field trips.

Requirements: You must possess the desire to learn and be of strong moral character. Many careers in criminal justice are closed to individuals with any arrest history. Due to the required additional training and education beyond high school, this program will require excellent written and oral communication skills, emphasizing high academic standards. Hand/eye coordination, following and applying instructions, problem solving skills, and physical fitness are also strongly encouraged.

- Federal Emergency Management Agency National Incident Management System (FEMA NIMS) certificates, 100, 200, 700, and 800
- American Safety Health Institute - CPR
- American Safety Health Institute – AED/First Aid
- Federal Emergency Management Intro to Hazmat Materials
- The Association of Public Safety Communication Officials (APCO) Telecommunicator 1

CULINARY ARTS

Do you want to be the next Food Network Star? Attending the SUN Tech Culinary Arts Program will put you on the right track to achieving this goal! In America, Service Workers make up 60% of the workforce. SUN Tech's Culinary Arts Program will teach you the skills needed to enter the exciting world of culinary arts.

Outcomes: As a SUN Area, Technical Institute student enrolled in the Culinary Arts Program, you will have the opportunity to learn the skills necessary to work in a variety of food service positions. Your educational experience in this program will prepare you for a career in the food service industry and provide you with the prerequisites to continue your education at a post-secondary school or college in a food-related field. You will have an opportunity to work towards earning your ServSafe Certification; a recognized industry certification increasing your employability. You may also have the opportunity to earn advanced placement credits at the college level. Does working and earning money while enrolled at SUN Tech sound interesting? Culinary Arts Program students may also choose to participate in the Co-op program and work in the Culinary industry.

Requirements: You must possess a desire to learn and an interest in a career in the Culinary industry. The program requires strong verbal communication skills and the ability to work with others in a positive manner. Hand-eye coordination and fine motor dexterity skills are necessary. It is important that you are able to count money, follow instructions, remain flexible to changing routines, and take direction from others.

Description: The SUN Tech Culinary Arts Program will provide you with the skills and experience needed to prepare for an entry-level position in the Culinary industry.

The skills you will learn include:

- Basic operation of a restaurant
- Food preparation
- Safety and Sanitation
- Operation and maintenance of restaurant tools and equipment
- Creating and planning of menus for restaurant and catering functions
- Cooking & Baking
- Customer service including; hosting, serving, and bussing

DENTAL HEALTH AND TERMINOLOGY

Get the root of your education in Dental Assisting. By coming to SUN Tech, you will be prepared with a variety of hands-on experiences and practical clinical training that will lead to careers as a Dental Assistant and other dental auxiliaries.

Certifications Offered:

- Pennsylvania Radiology Registration Exam through Dental Assisting Nation Board
- CPR/AED
- First Aid
- Career Safe

Dual Enrollment:

- Harrisburg Area Community College 11 credits

Description: Students who enroll in the Dental Health Technology program learn a variety of skills that enables them to become an important qualified member of a dental team. As a dental assistant, you will learn to prepare patients for treatment, sterilize instruments, practice infection control, prepare materials, and make study models from impressions. You will also be exposed to digital x-ray technology and provide chairside assisting with a local dentist to gain clinical experience.

Requirements:Radiology Registration examination through the Dental Assisting National Board (DANB); practical's, tests, quizzes, homework, and completion of clinical rotations.

- Participation in a clinical rotation to gain valuable skills, procedures, and patient care for all aspects of the dental profession
- Participation in job shadows of Dental Professions

s

DIESEL & TRUCK TECHNOLOGY

Would you like to learn how to service, repair and maintain the trucks that bring you everything that you come in contact with every day?

If you enjoy solving problems, working with your hands, and learning new things every day, then the Diesel and Truck Technology program may be for you.

Outcomes: By developing the skills that are necessary to maintain and repair today's sophisticated trucks and other Diesel-powered equipment you can earn a good starting wage as an entry level technician. You will also have the opportunity to earn college credits though the Penn College Now Program while completing the Diesel curriculum that will help you get a start on furthering your education.

Description: The Diesel and Truck Technology course at SUN Tech prepares you for higher education or employment in the field of truck and bus repair or maintaining diesel engines and other related equipment used to power ships, trains, electric generators and construction machinery. A working knowledge of the trade is taught through theory and practice, disassembly of diesel engines, clutches, brakes (hydraulic and air brakes), electrical systems and electronic trouble shooting. If you are trained in Diesel Technology you can secure employment as a technician working on trucks, buses, agricultural and construction equipment. You will be given the opportunity to attain a Pennsylvania Vehicle Safety Inspection license and prepare to take the Automotive Service Excellence (ASE) tests.

Prerequisites Requirements: Along with a strong desire to learn and good work ethic, knowledge in the following academic areas would be to your advantage, but are NOT required: General sciences, Mechanical Drawing, Basic Math, Business Math, Trade Math, and a basic understanding of electronic/ electrical and computers.

Dual Enrollment PC Now Courses you can complete while in this program:

- DSM 109 Basic Fuel Systems
  3 credits
- DSM 141 Heavy Duty Brake Systems
  2 credits

Certifications:

- **PA State Inpsection**
- **S/P2 Heavy Duty**
- **S/P2 Safety**
- **Cummins Engine Electrical & Insight**

ELECTRICAL SYSTEMS TECHNOLOGY

A HIGH PAYING JOB IS WAITING FOR YOU!

Be a success in life by starting an exciting career in the electrical industry by gaining skills that demand high wages! Today the demand for electricians is at an all-time high. From linemen to residential electricians many career opportunities are available. Electrical maintenance technicians, copper networking and fiber optic installers, and electrical construction are just a few of the jobs in high demand.

Certifications Offered:

- OSHA
- C-Tech Network Cabling Copper-Based Systems
- C-Tech Network Cabling Fiber Optic Based Systems
- Levit on Certificate

Outcomes: After graduation you will be ready to continue your education with advanced placement earned at many institutions of higher learning or you can enter directly into the electrical field with a wealth of knowledge and skills attained in the Electrical Systems Technology class. You will be prepared for positions such as an Electrician's Assistant, Residential Electrician, Commercial Electrician, Electrical Maintenance Technician, Copper & Fiber optic Cabling Technician, or a variety of positions related to providing electrical products and services.

Description: The Electrical Systems Technology class provides training through a combination of classroom instruction and practical, hands-on assignments. Projects, both within and outside of the school, give you hands-on experience in a safe, supervised environment. You will learn to design and build electrical systems to meet the requirements of the National Electrical Code and OSHA. Emphasis is placed on developing skills used in residential, commercial, and industrial installation, design and repair. Local methods, materials and requirements are taught, therefore making you highly employable.

About SUN Tech

18 Programs of Study:

- ⇒ Advertising Art & Design
- ⇒ Auto Technology
- ⇒ Carpentry
- ⇒ Collision Repair
- ⇒ Computer Networking & Technology
- ⇒ Cosmetology
- ⇒ Criminal Justice
- ⇒ Dental
- ⇒ Diesel & Truck Technology
- ⇒ Electrical
- ⇒ Health 114 (Nurse Aide)
- ⇒ Health 201 (Patient Care Technician)
- ⇒ HVAC
- ⇒ Masonry
- ⇒ Mechatronics
- ⇒ Precision Metalworking
- ⇒ Welding
- ⇒ Wood Design & Technology

HEALTH PROFESSIONS & RELATED SCIENCES

HAVE YOU EVER HAD A DREAM TO BE A DOCTOR, NURSE, OR TAKE CARE OF THE ELDERLY?

The Health Professions Program here at SUN Tech allows you to live out your childhood dream. If you like working with the public, show empathy to others, have good communication skills and have a desire to become a health care worker, visit the Health Professions Program at SUN Tech.

Outcomes: The skills that you will be taught in the Health Professions Program you will use on a daily basis. You will have the opportunity to earn a Certified Nurse Aide Certification which is valuable whether you choose to enter the work force immediately after graduation or further your education. You can also earn college credits while completing the health curriculum at SUN Tech.

Description: The Health Professions program at SUN Tech helps you learn the theory and practical skills required to help prepare you for a career in the health field. You will learn the duties of a Certified Nurse Aide and have the opportunity to perform skills learned as you deliver quality resident care while at our clinical affiliations at a local long-term care facility and local community hospital. You will learn the importance of commitment to other members of the health care team. Preparation is primarily in a simulated work environment combined with clinical application.

Certifications based on pathway:

Health 114

- BLS Health Care Provider
- Heartsaver First Aide
- Heartsaver AED
- Heartsaver CPR
- Nurse Aide Registry
- OSHA

Health 201

- Patient Care Technician
- OSHA
- Heartsaver First Aide
- Heatsaver AED
- Heartsaver CPR

Requirements *(Prior to the first day of school)*:

- PA-Criminal Records Check ACT 34
- FBI Act 141 Federal Fingerprinting
- Physical Exam
- TB Test
- Immunization Record
- Uniforms

HVAC & PLUMBING TECHNOLOGY

How would you like to learn more about green energy? Become an HVAC service technician or an HVAC installer of residential or commercial systems! If this sound interesting than the HVAC program at SUN AREA TECHNICAL INSTITUTE is the program for you.

Outcome: You can learn the skills necessary to gain employment in the HVAC and plumbing field. Your training will prepare you for residential or commercial installation and or service of all types of heating and air conditioning equipment. The primary goal of the HVAC program is to provide you with theoretical and a practical hand on learning environment. You will have the opportunity to obtain either entry-level employment in the trade or earn advanced placement credits toward furthering your education at many institutions of higher learning while still in high school.

Description: HVAC & Plumbing Technology students at SUN Tech learn through classroom instruction and practical shop assignments. You will learn basic system design as well as the installation and servicing of modern HVAC systems through practice in the laboratory or at an actual job site. Emphasis is placed on developing student skills used in residential and commercial installation and repair jobs. Additional training within this trade area is available in green technology learning about solar and geothermal energy. **Please contact me at gsnook@sun-tech.org for more details or visit the www.sun-tech.org for more information.**

Dual Enrollment PC Now Courses you can complete while in this program:

- **ARC111 Introduction to Refrigeration: *5 credits***

Certifications:

- **EPA 608**
- **OSHA**
- **CSST (TracPipe)**

MASONRY

WOULD YOU LIKE TO LEARN A HIGH-PAYING AND IN-DEMAND TRADE THAT WILL PROVIDE FOR A GREAT FUTURE?

By attending the Masonry Program at SUN Area Technical Institute, you can learn the skills necessary to enter the Masonry workforce immediately upon graduation, or to advance onto higher education opportunities. Perhaps you want to become a supervisor or even own your own business someday, YOU CAN MAKE IT HAPPEN! Take the first step by contacting your guidance counselor and arranging a visit to the Masonry Program.

BUILD YOUR FUTURE.... BRICK by BRICK!!

Outcomes:

- You will process through a program where the mastery of new skills will go hand-in-hand with the potential for bigger paychecks
- Your advancement will not only be measured in terms of dollars, it will also be measured in terms of accomplishment.
- By the time you enter the workforce you will possess literally hundreds of complex construction skills.
- You may even advance as a site foreman, as estimator, or a contractor. It is individual motivation more than anything else that will determine how far you will advance in Masonry.

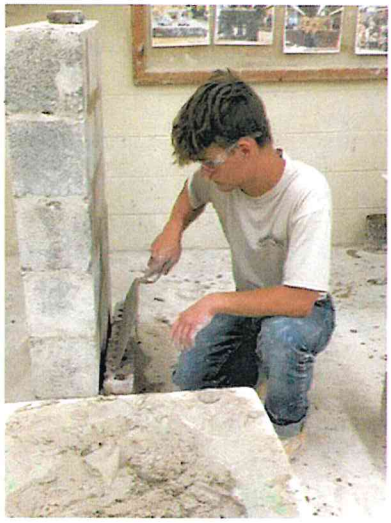
Description: Work in Masonry is a combination of physical and mental activity. Skills to master the tools of the trade along with efficient work habits are what you will learn at SUN. These skills will enable you to construct quality work that will stand the test of time. You will also develop an understanding of mathematics as it relates to building materials as well as blueprint reading, jobsite organization, and jobsite safety.

Certifications Offered:

OSHA

PC Now Credits offered in this program:

- BCTE234– Masonry Principles
  5 credits



MECHATRONICS

WOULD YOU LIKE TO LEARN A HIGH-PAYING AND IN-DEMAND TRADE THAT WILL PROVIDE FOR A GREAT FUTURE AND CONNECT YOU TO ENGINEERING DISCIPLINES?

Certifications Offered:

OSHA

Soar Credits possible:

- Harrisburg Area Community College
- Northhampton County Community College
- Pittsburgh Technology College
- Delaware County Community College
- Lehigh Carbon Community College

Mechatronics is a program that prepares individuals to apply basic engineering principals and technical skills in support of engineers engaged in developing and testing automated, servomechanical and other electromechanical systems. Mechatronics also includes instruction in prototype testing, manufacturing and operational testing, system analysis and maintenance procedures, along with report preparation. Students in the program will also learn hydraulics, pneumatics, and mechanical drives.

PRECISION METALWORKING

Become a CNC machinist in this program, just like the ones seen on TV's "Titans of CNC" and "How It's Made". Imagine designing or inventing something and being able to build it yourself...

Outcomes: By developing the skills necessary to operate computerized (CNC) and conventional machinery you can secure a high paying job and earn college credits. Working with the latest Mastercam software, you can design and build amazing projects using CNC and laser machines just like the ones used in industry. Students can start earning up to $16.00 per hour or more working through the Co-Op program while still in school.

Description: A machinist doesn't think of metal as something hard and unchangeable, because they can change it into anything they want. Students setup and operate machinery to fabricate and repair parts and components. A machinist performs cuts on materials to bring it to the desired shape and dimensions. Metal blocks can be transformed into intricate parts such as sprockets, gears, pistons, tools, wheels, and molds. These parts are then assembled into cars, bikes or the machinery which mass produce every conceivable manufactured good. **Machinists are the foundation of all industries, and without them no manufacturing or construction job would exist.** Machinists are the only skilled workers capable of reproducing the actual tool they are using! Advanced Precision Machining students are highly sought out by local employers and have one of the highest job placement rates in the school. Many students pursue careers in engineering.

Certifications Offered:

- NIMS (National Institute for Metalworking Skills)
  - Measurement, Materials & Safety
  - Manual Drill Press
  - Manual Milling
  - Turning Between Centers

You can qualify for advanced placement and/or dual enrollment at the Pennsylvania College of Technology, Thaddeus Stevens School of Technology and the Harrisburg Area

WELDING

Start your career with a spark!

A Professional Welder's career options are nearly endless. Careers range from structural welding and pipe fitting to manufacturing and fabrication. Best of all, the demand for welders worldwide continues to grow. Nine months in the Welding Program will benefit you for the rest of your life.

PC Now Dual Enrollment Courses:

- WEL114 Shielded Metal Arc 2 credits
- WEL116 Shielded Metal Arc II 2 credits
- WEL120 Gas Metal Arc 1 2 credits
- WEL124 Gas Metal Arc II 2 credits
- WELL123 Gas Tungsten Arc 1 2 credits
- WEL129 Gas Tungsten Arc II 2 credits
- WEL132 FLUX Cored I 2 credits
- WEL136 FLUX Cored II 2 credits

Certifications:

- Level 1– Entry Welder AWS
- AWS D1.1
- AWS D1.5
- OSHA 10

Outcomes: By enrolling in the Welding Program you can learn the skills needed to succeed in this challenging field. If you are interested in furthering your education, you can earn up to 16 Penn College Now credits and advanced placement credits while attending SUN Tech. You may also choose to participate in Co-op and earn pay while being trained.

Description: The SUN Tech Welding Program provides you with the hands-on training in all positions and theoretical backgrounds required for an entry-level position in the field of welding. You will learn:

- Shielded Metal Arc Welding
- Gas Metal Arc Welding
- Gas Tungsten Arc Welding
- Nondestructive Testing
- Methods/Inspection
- Flux Core Arc Welding
- Oxyfuel Cutting/Welding/ Brazing
- CNC/ Manual Plasma cutting
- Blueprint Reading
- Fabrication skills

WOOD DESIGN & TECHNOLOGY

Are You Interested in Learning A Hands-on Skill That Will Make You MONEY And Also SAVE You MONEY For The Rest of Your Life? If the answer is yes, then consider a career in Wood Design and get your FREE training at SUN Tech!!! Visit the Program and Check It Out!!!!

Outcomes: You can:

- Learn skills that you will have forever and will enable you to MAKE MONEY!
- Create different and challenging projects each day
- Express your creativity
- Participate in community service projects off campus
- Work by yourself and as a team member
- Go to college…..possibly for FREE
- Enter the workforce upon graduation

Certifications Offered:

- OSHA

Description:

As a Wood Design & Technology (WDT) student, you can be trained to be a quality machine operator, production worker, finisher, or technician. You will learn to have a strong emphasis on quality and professionalism. Wood products manufacturing remains one of the top career fields locally and throughout the State. WDT is a State Approved Program of Study. When you complete all of the required state tasks, you can earn college credits to numerous colleges throughout the State.

Requirements: You should possess creativity and a willingness to learn and experience new things. Good hand-eye coordination, attention to detail, basic math and measurement skills are important skills to have when entering this program

ENROLLMENT

Are you a Junior or Senior?

If so, its not too late to contact your guidance counselor to sign up for one of our 19 unique programs!

1. Let your school district guidance counselor know you are interested in attending SUN Tech!

2. Obtain and submit an application from your guidance counselor by February 1st!

Student Services

Every student with a special need and/or disability attending SUN Area Technical Institute shall be offered an educational program that meets his/her individual needs. All programs comply with regulations set forward in the Individuals with Disabilities Education Act, Pennsylvania School Code Chapter 14, and Section 504 of the Americans with Disabilities Act. SUN Tech seeks to educate children with disabilities within the general education curriculum to the maximum extent possible. Students are offered educational programs which afford them the greatest opportunity for success and success in life after high school. SUN Tech provides all students with a safe environment for learning, giving them recognition as individuals, and the opportunity to succeed in their chosen program. All opportunities and activities extended to the general population of students shall be provided for students with disabilities where feasible. The Joint Operating Committee designates Kristy Etzler as SUN Tech's Section 504 Coordinator. SUN Tech resource specialists and 504 coordinators receive current IEP and 504 plans from sending district guidance counselors to ensure student services are being provided. SUN Tech will work with the sending district to hold meetings to ensure services are updated on a timely basis