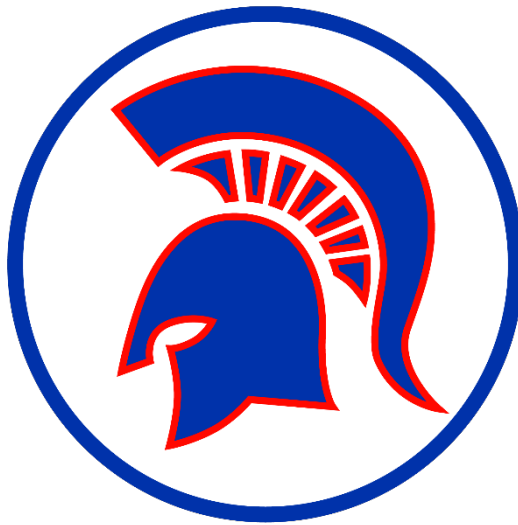


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# **NORTH SCHUYLKILL**

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**Junior/Senior High School**



## **Course Selection Guide**

**2025 – 2026**

**9<sup>th</sup> – 12<sup>th</sup> Grades**



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# INTRODUCTION

Within this *Course Selection Guide*, you will find information to help you in the course selection process. Included in this booklet are course descriptions, graduation requirements, and scheduling information. You and your parents must review this information carefully. Criteria for selecting your courses should be based on your natural aptitudes, developed abilities, interests, and career plans.

If you have specific questions concerning course selection or career plans, the guidance department, faculty, and administration of the North Schuylkill Jr./Sr. High School are available to assist you in creating a plan to prepare for your future.

## NORTH SCHUYLKILL SCHOOL DISTRICT MISSION STATEMENT

The North Schuylkill School District will graduate students who have a passion for learning and are empowered to be self-sufficient and successful.

## STUDENT OUTCOMES

- Identify that effort, strengths, and weaknesses affect them academically.
- Take ownership of their educational learning tools in all subjects collaboratively.
- Apply learning in real-life situations and, at times, take risks and embrace errors.
- Every child should be able to read and analyze critically and independently.
- Students will be responsible, upstanding, and civic-minded media citizens of the 21<sup>st</sup> century.
- Students will develop listening skills, problem-solving, and develop pride in their work and accomplishments with an open mind.

## LEARNING BELIEFS

- Students will be actively engaged in a comfortable and positive environment with clear expectations that are conducive to learning.
- Expected to produce quality work that meets high standards, connects to prior knowledge and real-life situation while challenging students to meet high expectations in and out of group situations
- Feel safe, confident, and positive that their needs are being met, opportunities for active involvement in varied learning experiences are provided and are confident and comfortable to ask questions and set goals
- Instructional materials will be differentiated and encourage students to express themselves individually and creatively while making choices related to their learning using self, peer and teacher feedback and problem-solving techniques

## THE SCHOOL YEAR AND YOUR SCHEDULE

Your schedule will run on a 2-day cycle (A/B). Some of your classes will meet every day of the cycle. For instance, English 9 is a class that meets on a 2-day cycle. Therefore, if you have English 9 during first period, you will go to English 9 every day first period. However, some of your classes will only meet 1 day per cycle. For instance, if you have Physical Education third period on an "A" day, you will go there every other day during the third period. Each morning, we will announce what day it is. Lunch will be 30 minutes and will not count as a period.

As you examine the course offerings section of this guide, you will notice that the number of days each class meets is listed for each course. Some classes also state that they will meet for a semester. These courses may be offered for 1/2 of the year.

**One important thing to remember about the 2-day cycle (A/B) is what happens if we miss a day, or days of school because of severe weather. When we come back, the cycle picks up right where it left off.** Thus, if Monday was day A, and students are off Tuesday and Wednesday, when students come back on Thursday it is still day B because that was the next day in the cycle.

### THE ADD/DROP PERIOD

Add/drop period will take place the first 2 days of the semester. After the add/drop period is over, all changes must be approved by the administration.

### NOTES ON SCHEDULING YOUR COURSES

- The administration reserves the right to discontinue a class for reasons such as low enrollment issues relating to staffing or facilities concerns.
- In most cases, there will be several courses you can choose from, to satisfy a core requirement. For example, taking 9<sup>th</sup> grade General English, 9<sup>th</sup> grade CP English, or 9<sup>th</sup> grade Honors English would satisfy the 1 credit core requirement of English needed in 9<sup>th</sup> grade.
- You **cannot** substitute electives for required core courses. Using English as an example, a student successfully completing 9<sup>th</sup>, 10<sup>th</sup>, and 11<sup>th</sup> grade CP English could not take the elective Mythology to satisfy his/her 12<sup>th</sup> grade English core requirement. He/she must take English 12, CP English 12, or Honors (or AP English, if he/she qualified) as a senior, although the student could still take Mythology as an elective.
- **One important thing to note as you choose your courses is that in some instances you cannot select a course without first passing the course, or courses, serving as a prerequisite for that course. Not all courses have prerequisites you must pass in order to choose them, but you should look ahead to make sure you are taking the courses that serve as prerequisites for a course you would like to take later. The prerequisites, if there are any, are listed at the end of the course description paragraphs in the Course Offerings section of this guide.**

### SCHEDULE CHANGES

**Students will be held responsible for completing a course once they have committed themselves to it.**

During the school year, students can discuss the pros and cons of taking various courses with teachers and the Guidance Department, before selecting courses. All students will also have the opportunity to make schedule changes during the summer prior to the beginning of the school year. Schedule changes must be made within the first 2 days of a semester. After the 2 days, any changes would need administrative approval.

### SUMMER SCHOOL

In order to make up a required course during summer school, a student **must have a final yearly average of 50% or above for that class.** Should the student have an average lower than 50%, he/she must retake the course during the next school year. Students are permitted to take a maximum of two courses during Summer School.

# GRADUATION REQUIREMENTS

## GRADUATION PROJECT

Students completing a Senior Project will be required to give a presentation detailing their Post-Secondary/Career Plan. The presentation may be presented via Google Slides (recommended but not required) and should be no longer than 10-15 minutes. Students should dress in formal attire and will be expected to discuss their future plans. The expectation is that students will be able to discuss their intentions following high school graduation. Students will also discuss any volunteer experience.

## COMMUNITY SERVICE

Students must complete 20 hours of community service before graduation. Students can begin documenting required community service hours as early as the summer entering their 9<sup>th</sup> grade year.

## STUDENT GRADING

All student grades will appear on report cards and on the CSIU parent portal as actual percentages and these percentages will be used for calculating class rank along with course weights, which are described below.

## COURSE WEIGHTING

To encourage students to challenge themselves, the faculty of the North Schuylkill Jr./Sr. High School assigned a weight to all courses, in the faculty's professional opinion, the higher the weight, the more difficult the course. The weight assigned to all courses is one of the following:

- 1.00 – Least Difficult/Basic
- 1.04 – College Prep
- 1.08 – Honors
- 1.10 – Dual Enrollment
- 1.12 – Most Difficult/Advanced Placement

A student who takes a course with a weight of 1.00 and gets a 90%, would also receive a 90% ( $90 \times 1.00 = 90$ ) in that class for ranking purposes. However, a student taking a course with a weight of 1.08 who gets a 90% in that class would receive a 97.2% ( $90 \times 1.08 = 97.2$ ) in that class for ranking purposes. A student will receive a rank if they are in the district for six semesters.

**Students and parents are reminded that courses with weights of 1.08 and 1.12 have several prerequisites that must be met in order for the student to gain entrance into those classes. Except for transfer students, who may not have had the exact same courses available to them, no student will be admitted to a higher-level class without first having satisfied the prerequisites for that course.**

## STUDENT CLASS STATUS

Freshman Status	For students to have a Freshman (9 <sup>th</sup> grade) status, they must fulfill their junior high credit requirements
Sophomore Status	For students to have a Sophomore (10 <sup>th</sup> grade) status, they must earn at least 5.0 credits in grade 9.
Junior Status	For students to have a Junior (11 <sup>th</sup> grade) status, they must earn at least 11.0 credits in grades 9 through 10.
Senior Status	For students to have a Senior (12 <sup>th</sup> grade) status, they must earn at least 18.0 credits in grades 9 through 11.

## ADVANCED PLACEMENT

**Students enrolling in an Advanced Placement (AP) Course must take the AP exam in the spring. Students who choose not to take the AP exam will not receive full weight for the course.**

The Advanced Placement courses are for students who meet specific requirements and standards of an academic nature. Courses in this program follow the syllabus prepared by the Advanced Placement teacher and approved by the College Board. An AP course is held to a higher standard than any other course in our curriculum. AP courses are designed to help students acquire the skills and habits they will need to be successful in college. Each course will prepare students to be successful on the accompanying AP exam. The AP Exams are designed to evaluate knowledge acquired in various courses with the object of gaining college credits. More than 90 percent of four-year colleges in the United States and colleges in more than 60 other countries give students credit, advanced placement, or both based on AP Exam scores.

Commonwealth University's Early College Program is offered by Bloomsburg University that gives junior and senior students the opportunity to take college courses on campus, dependent on GPA. Students participating in the Commonwealth University Early College program will share class rank, but class rank will not be recognized during the senior awards ceremony or the graduation ceremony.

## DUAL ENROLLMENT (FEE REQUIRED)

Dual enrollment, referred to as concurrent enrollment in the School Code, is intended to encourage a broader range of students to experience postsecondary coursework while still in their high school's supportive environment. The Pennsylvania Dual Enrollment Program allows North Schuylkill School District to partner with eligible postsecondary partners to offer high school juniors and seniors the chance to earn credit while completing their high school requirements. The number of credits assigned to course work taken through an alternative delivery method shall be predetermined by the building principal and school counselor as part of the approval process before coursework begins. North Schuylkill partners with multiple post-secondary institutions to offer students an opportunity to earn post-secondary credits and fulfill high school requirements.

The Commonwealth University Early College Program is offered through Bloomsburg University that gives junior and senior students the opportunity to take college courses on campus, dependent on GPA. Juniors are permitted to attend with a cumulative GPA of 95% and above. Seniors are permitted to attend with a cumulative GPA of 93% and above. Students participating in this program will share class rank, but class rank will not be recognized during the senior awards ceremony or the graduation ceremony. Students who participate in this program will solely attend Bloomsburg University and the Bloomsburg University credits will count toward North Schuylkill credit requirements. Students must work with school counselors to schedule classes to ensure high school graduation requirements are met. Bloomsburg University offers 75 percent off the residential tuition and fee rates for classes offered at the Bloomsburg University campus on a space available basis.

The Emerging Health Professionals Program is a partnership between Penn State Schuylkill, Lehigh Valley Health Network, and other medical facilities. The Emerging Health Professional dual-enrollment program combines skills—based, interactive and university level classroom learning with shadowing in the health care setting. The program is designed to prepare students for post-secondary education by offering a college science course. Students must complete Honors Chemistry during their junior year in order to qualify for the program their senior year. Students spend two half-days a week with Penn State faculty and will spend two half-days a week participating in activities at Lehigh Valley Health Network. Students spend one half day a week participating in health curriculum taught by the STC instructor at STC North Campus. North Schuylkill students will complete additional high school credit requirements by attending North Schuylkill part-time or virtually. Penn State offers 50% tuition reduction for the Emerging Health Professional dual enrollment option.

Penn State Schuylkill offers seven Dual Enrollment programs. This is a program for seniors only. Students can explore a host of career paths while earning college credits that count toward a Penn State degree. Credits may also transfer to other post-secondary institutions. Program options include Business, Criminal Justice, Cybersecurity, Education, Engineering, Healthcare, Project & Supply Chain Management. Students spend part of their regular school day at Penn State Schuylkill, taking classes and attending enrichment programming such as guest expert lectures, company tours, and job shadowing. Upon completing their Penn State classes for the day, students return to North Schuylkill for regular coursework. Penn State offers 50% tuition reduction.



North Schuylkill also partners with local post-secondary institutions to offer college courses at a discounted rate. Students may choose to take online college courses through an approved post-secondary institution while attending North Schuylkill. The dual enrollment courses must not be offered through the North Schuylkill curriculum. Juniors qualify to participate with a 95% grade point average and above. Seniors qualify with a 93% grade point average and above.

The assigned student grade for successfully completed work shall be weighted 1.10 and students will earn one high school credit per each 3-credit college course. Courses must be approved through the guidance office. Students participating in dual enrollment must provide their own transportation. Counselors use the following grade conversion chart should a college provide letter grades.

IF A COLLEGE GIVES A+													
COLLEGE	A+	A	A-	B+	B	B-	C+	C	C-	D+	D	D-	F
NS	100	97	93	92	89	85	84	81	77	76	74	70	<70

IF A COLLEGE DOES NOT GIVE A+												
COLLEGE	A	A-	B+	B	B-	C+	C	C-	D+	D	D-	F
NS	100	93	92	89	85	84	81	77	76	74	70	>70

## SCHUYLKILL TECHNOLOGY CENTER

The Schuylkill Technology Center is an elective option of high school course selection designed to provide the basic technical skills to assist all students to prepare for a career in tomorrow's high-tech workforce and enable students to get a "head start" on post-secondary career. Programs offer basic entry-level skills with "hands-on" training on computerized and technical equipment. Students must have completed the ninth grade to enroll in the Technology Center. All Schuylkill Technology Center Programs of Studies have articulation agreements to various post-secondary/ higher education institutes, thus providing for advanced placement and advanced skill opportunities. More information regarding program of studies and articulation agreements can be obtained from Schuylkill Technology Center- Guidance Department at 570-544-4748 and 570-874-1034 or on the web at [www.stcenters.org](http://www.stcenters.org).

### **Students attending Schuylkill Technology Center (STC) will still have to meet a set of core requirements.**

During the 18 weeks you spend at the Jr./Sr. High School each year in grades 10 through 12, you will meet your core requirements primarily by having double periods of required subjects. For instance, in order to obtain a credit of science in 10th grade you will have science two periods a day during your 18 weeks here in order to cover a year's worth of material for that science class.

## **SCHUYLKILL TECHNOLOGY CENTER/ PROGRAM OF STUDY (POS)**

The Carl D. Perkins Career and Technical Education Improvement Act of 2006 requires the development and implementation of career and technical programs of study (POS). Programs of Study incorporate secondary education and post-secondary education elements: include coherent and rigorous content aligned with challenging academic standards and relevant career and technical content in a coordinate, non-duplicative progression of courses that align secondary education with post-secondary education to adequately prepare students to succeed in post-secondary education; may include the opportunity for secondary education students to participate in dual or concurrent enrollment programs or other ways to acquire post-secondary education credits and lead to an industry-recognized credential or certificate at the post-secondary level or an associate or baccalaureate degree.

### **Programs of Study Consist of:**

- High Priority Occupation (HPO) from PA Department of Labor and Industry
- Align POS selection from PA approved CIPs
- Scope and Sequences of Courses
- Integration of Academic Standards
- Recognized PA Industry Certifications aligned to CIPs
- Statewide articulations for POS students to post-secondary institutions that continue career pathways
- Assessments for end of program at secondary and post-secondary (e.g. NOCTI)

## **SCHUYLKILL TECHNOLOGY CENTER'S CAREER CLUSTERS AND PROGRAMS OF STUDY**

### **Architecture and Construction**

- Carpentry Technology
- Masonry Technology
- Plumbing & Heating Technology
- Residential/Industrial Electricity

### **Health Science**

- Health Careers

### **Hospitality & Tourism**

- Culinary Arts

### **Human Services**

- Cosmetology
- Early Childcare & Education

### **Information Technology**

- Computer Information Systems

**Law, Public Safety, & Security**

- Criminal Justice

**Manufacturing**

- Electromechanical
- Precision Machining Technology
- Welding Technology

**Marketing Sales & Service**

- Business Management

**Transportation, Distribution & Logistics**

- Automotive Technology
- Logistics
- Collision Repair & Technology
- Diesel Technology
- Outdoor Power Technology

**Senior Only Programs**

- Diversified Occupations
- Emerging Health Professionals

## **STC CAREER CLUSTERS AND PROGRAMS OF STUDY DESCRIPTIONS**

### **Architecture and Construction**

**Carpentry Technology**

An instructional program that prepares individuals to apply technical knowledge and skills to layout, fabricate, erect, install, and repair structures and fixtures using hand and power tools. This program includes instruction in common systems of framing, construction materials, estimating, blueprint reading, and finish carpentry techniques.

**Masonry Technology**

An instructional program that prepares individuals to apply technical knowledge and skills in the laying and/or setting of brick, concrete block, glass block, hard tile, marble, and related materials using trowels, levels, hammers, chisels, and other hand tools.

**Plumbing & Heating Technology**

A Program that prepares individuals to practice as licensed plumbers by applying technical knowledge, safety, and skills to layout, assemble, install, and maintain plumbing fixtures and systems for steam, natural gas, oil, hot water, heating, cooling, drainage, lubricating, sprinkling, and industrial processing systems in home and business environments. Includes instruction in source determination, water distribution, waste removal, pressure adjustment, basic physics, technical mathematics, blueprint reading, pipe installation, pumps, brazing and soldering, plumbing inspection, and applicable codes and standards.

**Residential/Industrial Electricity**

An instructional program that prepares individuals to apply technical knowledge and skills necessary to install, operate, maintain and repair electrically energized residential, commercial, and industrial systems, and DC and AC motors, controls, and electrical distribution panels. Instruction emphasizes practical application of mathematics, science, circuit diagrams, and use of electrical codes and includes blueprint reading, sketching, and other subjects essential for employment in the electrical occupations. Reading and interpretation of commercial and residential construction wiring codes and specifications, installation and maintenance of wiring, service and distribution networks within large construction complexes are also critical components of the program.

### **Health Science**

**Health Careers**

A cluster program with a combination of subject matter and experiences designed to prepare individuals for entry-level employment in a minimum of three related health occupations under the supervision of a licensed health care professional. Instruction consists of core course content with clinical experiences in one or two health related occupations. The core curriculum consists of planned courses for introduction of health careers, basic anatomy and

physiology, medical terminology, legal and ethical aspects of health care and communications, and at least three planned courses for the knowledge and skills for the occupational area such as medical assisting, ward clerk, nursing assisting, etc.

## **Hospitality & Tourism**

### Culinary Arts

An instructional program that prepares students for employment related to institutional, commercial, or self-owned food establishments or other food industry occupations. Instruction and specialized learning experiences include theory, laboratory, and work experience related to planning, selecting, preparing, and serving of quantity food and food products; nutritive values; use and care of commercial equipment; safety; and sanitation precautions. Instruction skills are provided to individuals desiring to become employed in all areas of the food service industry at entry level.

## **Human Services**

### Cosmetology

An instructional program that prepares individuals to apply technical knowledge and skills related to experiences in a variety of beauty treatments including the care and beautification of the hair, complexion, and hands. Instruction includes training in giving shampoos, rinses, and scalp treatments; hair styling, setting, cutting, dyeing, tinting, and bleaching; permanent waving; facials; manicuring; and hand and arm massaging. Bacteriology, anatomy, hygiene, sanitation, salon management including record keeping and customer relations are also emphasized. Instruction is designed to qualify pupils for the licensing examination.

### Early Childcare and Education

An instructional program that prepares individuals for a variety of occupations in childcare and guidance often under the supervision of professional personnel in child or day care centers. This program includes instruction in growth and development; nutrition; program planning and management; safety; behavior guidance; play activities; child abuse and neglect; parent-child personal relationships; learning experiences for children; and laws, regulations and policies relating to childcare services.

## **Information Technology**

### Computer Information Systems

An instructional program that prepares individuals to apply technical knowledge and skills to support the design and development of software applications. This program is designed to provide the capacity to prepare and interpret process and data models, develop and structure software components and to validate the functionality, useability, and reliability of those components. Validation skills include testing and debugging. System, component, and user documentation is to be performed throughout the process. This program will provide students with the ability to integrate new and existing components. Students will receive instruction in at least two programming languages including at least one procedure-oriented language and one object and visually oriented language. This course provides a thorough practical knowledge of the concepts, theories, logic, and critical thinking skills required when building software applications. Students completing the program will possess a basic technical foundation needed to pursue postsecondary degrees leading to a career as a software developer, analyst project leader or in the management of information technologies. Students may prefer to immediately enter the labor market in an entry-level position as developer or analyst.

## **Law, Public Safety, & Security**

### Criminal Justice

An instructional program that prepares individuals for entering postsecondary education coursework in the field of criminal justice. Individuals completing this program have the knowledge and skills to advance themselves in the various disciplines of criminal justice, including policing, corrections, probation and parole, security, communications, and crime scene management. They also have a requisite understanding of the use of force and health issues.

## **Manufacturing**

### Electromechanical

An instructional program that prepares individuals to apply basic engineering principles and technical skills in both the mechanical and electrical fields. Instruction is planned to provide preparation in the design development and testing of electromechanical devices and systems such as automatic control systems servomechanisms, vending machines elevator controls missile controls tape control machines and auxiliary computer equipment. Instruction also includes feasibility testing of engineering concepts systems analysis including designs selection and testing and application of engineering data and the preparation of written reports and test results in support of mechanical and electrical engineers.

### Precision Machining Technology

An instructional program that prepares individuals to apply technical knowledge and skills in all aspects of shaping metal parts. Instruction involves making computations related to work dimensions tooling and feeds and speeds of machining. Emphasis is placed upon benchwork and the operation of lay power saws milling machines grinders drills and computer operated equipment (CNC and CIM). Instruction also includes the use of precision measuring instruments such as layout tools micrometers and gauges methods of machining and heat treatment of various metals blueprint reading and the layout of machine parts. Instruction prepares students to operate all types of hand and computer-controlled machines.

#### Welding Technology

An instructional program that prepares individuals to apply technical knowledge and skills in gas, arc, shielded and non-shielded metal arc, brazing, flame cutting. Hand, semi-automatic and automatic welding processes are also included in the instruction. Students learn safety practices and types and uses of electrodes; properties of metals; blueprint reading; electrical principles; welding symbols and mechanical drawing; use of equipment for testing welds by ultrasonic methods and destruction and hardness testing; Use of manuals and specification charts; use of portable grinders and chemical baths for surface cleaning; positioning and clamping; and welding standards established by the American Welding Society, American Society of Mechanical Engineers, and American Bureau of Ships.

### **Marketing Sales & Service**

#### Business Management

An instructional program that provides instruction in the fields of sales, distribution, and marketing operations, and focuses on the process and techniques of direct wholesale and retail buying and selling operations. This program is concerned with marketing, sales, distribution, merchandising, and management including ownership and management of enterprises engaged in marketing. Marketing education programs prepare individuals to perform one or more marketing functions such as selling, pricing, promotion, product/service management, distribution financing and marketing information management. In addition, instructional programs include varying emphasis on technical knowledge of products and/or services marketed; related communication, economic, technical and computation skills; and abilities and attitudes associated with human relations. The program may also include management functions associated with owning and operating a business. Sales, distribution, and marketing operations prepares individuals for occupations in such businesses as retail and wholesale trade, finance, insurance, real estate, entertainment, hospitality, food service, communications, storage, and distribution.

### **Transportation, Distribution, & Logistics**

#### Automotive Technology

An instructional program that prepares individuals to apply technical knowledge and skills to engage in the servicing and maintenance of all types of automobiles and light trucks. This program includes instruction in the diagnosis and testing, including computer analysis, of malfunctions in and repair of engines, fuel, electrical, cooling and brake systems and drivetrain and suspension systems. Instruction is also given in the adjustment and repair of individual components and systems such as cooling systems, drivetrains, fuel system components, and air conditioning, and includes the use of technical repair information and the state inspection procedures.

#### Collision Repair & Technology

An instructional program that prepares individuals to apply technical knowledge and skills to repair damaged automotive vehicles such as automobiles and light trucks. Students learn to examine damaged vehicles and estimate cost of repairs; remove, repair, and replace upholstery, accessories, electrical and hydraulic window, and see operating equipment and trim to gain access to vehicle body and fenders; remove and replace glass; repair dented areas; replace excessively damaged fenders, panels and grills; straightened bent frames or unibody structures using hydraulic jacks and pulling devices; and file, grind, and sand repaired surfaces using power tools and hand tools. Students refinish repaired services by painting with primer and finish coat.

#### Diesel Technology

This is an instructional program that prepares individuals to apply technical knowledge and skills to the specialized maintenance and repair of trucks, buses, and other commercial and industrial vehicles. The program includes instruction in diesel engine mechanics, suspension and steering, brake systems, electrical and electronic systems, preventive maintenance inspections, drivetrains, HVAC systems, and auxiliary equipment installation and repair.

#### Logistics

A program that prepares individuals to manage and coordinate logistical functions in an enterprise ranging from acquisitions to receiving and handling, through internal allocation of resources to operations units, to the handling and deliver of output. Includes instruction in acquisitions and purchasing, inventory control storage and handling, just-in-time manufacturing, logistics planning, shipping and delivery management, transportation, quality control, resource estimation and allocation and budgeting.

### Outdoor Power Technology

An instructional program that prepares individuals to apply technical knowledge and skills to repair, service, maintain and diagnose problems on a variety of small inter-combustion gasoline engines and related systems used on portable power equipment such as lawn and garden equipment, chain saws, outboard motors, rotor tillers, snowmobiles, lawn mowers, motorcycles, personal watercraft and pumps and generators. This program includes instruction in the principles of the inter-combustion engine and all systems related to the powered unit. Instruction also includes the use of technical and service manuals, state inspection code, care and use of tools and test equipment, engine tune-up/maintenance, engine overhaul, troubleshooting and diagnostic techniques, drive lines and propulsion systems, electrical and electronic systems, suspension and steering systems and service operations and parts management.

## **Senior Only Programs**

### Diversified Occupations

Students currently attending Schuylkill County school districts have any option to participate in a "Diversified Occupations" program offered through the supervision of the Schuylkill Technology Center. The Diversified Occupations (DO) one year program prepares students to develop marketable workforce skills through related theory assignments and job training connected with actual employment opportunities. A secondary student may apply for admission to the DO program under the following conditions: (1) STC does not offer a related occupational training program, or (2) STC program enrollments are to capacity. Specific student eligibility requirements include the following:

- Parent/guardian approval
- Full endorsement from sending district administration/staff
- An approved job site (with Worker's Compensation Insurance)
- Transportation (to and from the job site)
- Valid PA driver's license and insurance
- Appropriate work dress
- Required Personal Protective Equipment (PPE)
- Necessary tools and/or equipment
- STC/Employer Training Agreement

The Diversified Occupations Program is supervised by the STC cooperative education coordinator, who will also administer one required 45-minute related theory class per week, which will include related workforce topics such as resume development, work ethics, and workplace safety. The employer and DO Coordinator will produce a "Training Plan" outlining the student's job-related tasks and responsibilities connected to current industry standards and OSHA safety regulations. Student evaluation will be determined by related theory assignments, and employer evaluations from the job site.

### Emerging Health Professionals

The Emerging Health Professional is a partnership between Penn State Schuylkill, Lehigh Valley Health Network, and other medical facilities. The Emerging Health Professional dual-enrollment program combines skills-based interactive and university level classroom learning with shadowing in the health care setting. The program is designed to prepare students for postsecondary education by offering a college science course. Students spend two half-days a week with Penn State faculty and will spend two half-days a week participating in activities at Lehigh Valley Health Network. Students spend 1 half-day a week participating in health curriculum taught by the STC instructor at STC North Campus.

## **ACADEMIC COURSES**

### **AMERICAN STUDIES I**

**1.0 CREDIT**

American Studies I is a course that focuses on the history of the United States from 1492 to 1877 (Exploration through Reconstruction). Through readings, literature excerpts, political cartoons, simulations, technology products, and more, students will gain insight into the nation's past by examining period accounts and first-person voices. students will use varied resources to examine the links and make connections between events being studied in the textbook/learning guides and events that are taking place today. The major focus is the state history standards: content, chronology, analysis, and interpretation. Related concepts found in the state civics, economics, and geography standards are a supporting focus.

### **AMERICAN STUDIES II**

**1.0 CREDIT**

American Studies II is a course that focuses on the history of the United States from 1900 to present (Progressive Era through Modern Day America). Through readings, literature excerpts, political cartoons, simulations, technology products, and more, students will gain insight into the nation's past by examining period accounts and first-person

voices. students will use varied resources to examine the links and make connections between events being studied in the textbook/learning guides and events that are taking place today. The major focus is the state history standards: content, chronology, analysis, and interpretation. Related concepts found in the state civics, economics, and geography standards are a supporting focus.

### **WORLD STUDIES**

**1.0 CREDIT**

World Studies is a course focusing on the diverse ways of life found around the world. Through study of the pertinent issues to the major regions of the world, students will recognize and evaluate the relationships between people, places, regions, and environments. Students will further explore how physical environments affect human events and build a global perspective that allows them to understand the connections between global and national issues. The major focus is the state's geography standards: maps, environments, places, and regions. Related concepts found in the state civics, economics, and history standards are a supporting focus.

### **CIVICS/ECONOMICS**

**1.0 CREDIT**

Civics/Economics is a course that is comprised of two disciplines. Economics is a course that teaches students how to make reasoned economic choices and provide ways they can effectively participate in an increasingly competitive and interdependent global economy. Students will assess the impact of market influences and governmental actions on our economy through the use of real-world economic applications and analyze how different economic systems interact. In Civics, students will learn about the basic freedoms traditionally enjoyed by American citizens and about the qualities of a good citizen. Students will explore issues around US citizenship and their rights and responsibilities and roles in their communities by putting them in decision-making simulations and assessments that will enable them to acquire the skills necessary to participate in our democratic processes. The major focus of the course is state civics (government, politics, participation, citizenship) and economics (microeconomics, macroeconomics, economic systems, and international trade) standards. Related concepts found in the state geography and history standards are a supporting focus.

### **SCHOOL-TO-WORK OPPORTUNITY**

Cooperative education is a structure program integrating classroom activities (emphasis placed on employability skills) with work experiences in a field related to a student's program of study. Cooperative education is a partnership among students, educational institutions, and employers, with specified responsibilities for each party.

Who is eligible to participate: Students (third year, Level III) who have completed 75% of the program, already have a job or a good prospect for a job defined by the student's career objective.

What are the requirements: Students must be recommended by their course instructor and have a completed résumé. Attendance, grades, attitude, and behavior are considered in the decision-making process.

- Work permit (if under 18-years of age)
- All school debts must be satisfied
- Valid PA driver's license
- Approved student transportation
- Proof of auto insurance
- Up-to-date task listing
- Senior Portfolio obligation

# NORTH SCHUYLKILL SR. HIGH SCHOOL COURSE OFFERINGS

As you begin to put together your schedule for the upcoming school year, there are a few things you should keep in mind. First, you should be planning a schedule that will help you meet **your** goals. Do not choose a schedule just to make sure you always have class with your friends! Whether you realize it or not and whether you think it is fair or not, you are now creating a road map to your future. You may certainly change your mind along the way, but please remember this is one time to be selfish and consider **what is best for you alone** as you pick your courses.

Also keep in mind, whether you are going to college, trade school, the military, or straight to the working world, you must realize that certain schools and jobs require that you have certain courses and/or skills before they even consider admitting you or hiring you. As you enter 9th grade, and during every successive year of high school afterward, **you will meet with your school counselor to ensure that the courses you are taking are appropriate for achieving your future goals.** They have access to resources that can help ensure that you are making the right choices and are more than willing to help point you in the right direction. It is your responsibility to take advantage of their expertise!

## ENGLISH

### **110 ENGLISH 9** **WEIGHT 1.00** **2-DAY CYCLE – FULL YEAR** **1.0 CREDIT**

Students will complete units in grammar/usage, writing skills, vocabulary development, research, short story/novel, and drama/poetry.

Prerequisite – Successful completion of ELA 8. Students will be placed based on the previous year's cumulative average for ELA, plus teacher recommendation.

### **115 CP ENGLISH 9** **WEIGHT 1.04** **2-DAY CYCLE – FULL YEAR** **1.0 CREDIT**

Students will complete units in grammar/usage, composition, short story/novel, drama/poetry, vocabulary development, parenthetical citations, and research outlining.

Prerequisite – Successful completion of ELA 8. Students will be placed in their course based on the previous year's cumulative average for ELA, plus teacher recommendation.

### **120 HONORS ENGLISH 9** **WEIGHT 1.08** **2-DAY CYCLE – FULL YEAR** **1.0 CREDIT**

Students will complete units in grammar/usage, composition, short story/novel, drama/poetry, vocabulary development. Course requirements will be more challenging than that of CP English 9.

Prerequisite – Successful completion of ELA 8 with a cumulative average of 93% or higher, teacher recommendation, and successful completion of the summer reading test with a 70% or higher.

### **125 ENGLISH 10** **WEIGHT 1.00** **2-DAY CYCLE – FULL YEAR** **1.0 CREDIT**

Students will complete units in grammar/usage, writing skills, speech, short story/novel, composition, drama/poetry, research, writing and vocabulary development. Reading selections are from World Literature.

Prerequisite – Successful completion of a 9th grade English.

### **STC 127 ENGLISH 10** **WEIGHT 1.00** **2-DAY CYCLE – TWICE DAILY – SEMESTER** **1.0 CREDIT**

**These courses are designed for students attending the Schuylkill Technology Center.**

Students will complete units in grammar/usage, writing skills, speech, short story/novel, drama/poetry, research, writing and vocabulary development. Reading selections are from World Literature.

Prerequisite – Successful completion of a 9th grade English course. Students must attend STC to schedule this course.

### **130 CP ENGLISH 10** **WEIGHT 1.04** **2-DAY CYCLE – FULL YEAR** **1.0 CREDIT**

Students will complete units in grammar/usage, story/novel, drama/poetry, research, writing and vocabulary development. Reading selections are from World Literature

Prerequisite – Successful completion of a 9th grade English and teacher recommendation.



**135 HONORS ENGLISH 10** **WEIGHT 1.08**  
**2-DAY CYCLE – FULL YEAR** **1.0 CREDIT**

Students will complete units in grammar/usage, short story/novel, drama/poetry, research, writing and vocabulary development. Reading selections are from World Literature. Course requirements will be more challenging than that of CP English 10.

Prerequisite – Successful completion of a 9th grade English course with a cumulative average of 93% or higher, or successful completion of Honors English 9 with a 90% or higher. Additionally, students enrolling in Honors English 10 must successfully complete the summer reading test with a 70% or higher to maintain enrollment in the Honors English Program.

**140 ENGLISH 11** **WEIGHT 1.00**  
**2-DAY CYCLE – FULL YEAR** **1.0 CREDIT**

Students will complete units in grammar/usage, writing, short story/novel, speech, vocabulary development, research, and drama/poetry. Reading selections are from American Literature.

Prerequisite – Successful completion of a non-elective 10th grade English course.

**STC 142 ENGLISH 11** **WEIGHT 1.00**  
**2-DAY CYCLE – TWICE DAILY – SEMESTER COURSE** **1.0 CREDIT**

**These courses are designed for students attending the Schuylkill Technology Center.**

Students will complete units in grammar/usage, writing, short story/novel, speech, vocabulary development, research, and drama/poetry. Reading selections are from American Literature.

Prerequisite – Successful completion of non-elective 10th grade English course. Students must be attending STC to schedule this course.

**145 CP ENGLISH 11** **WEIGHT 1.04**  
**2-DAY CYCLE – FULL YEAR** **1.0 CREDIT**

Students will complete units in grammar/usage, short story/novel, drama/poetry, research, writing and vocabulary development. Reading selections are from American Literature.

Prerequisite – Successful completion of a 10th grade non-elective English course and teacher recommendation.

**150 HONORS ENGLISH 11** **WEIGHT 1.08**  
**2-DAY CYCLE – FULL YEAR** **1.0 CREDIT**

Students will complete units in grammar/usage, short story/novel, drama/poetry, research, writing and vocabulary development. Reading selections are from American Literature. Course requirements will be more challenging than that of CP English 11.

Prerequisite – Successful completion of a 10th grade non-elective English course with a cumulative average of 93% or higher, or successful completion of Honors English 10 with a 90% or higher. Additionally, students enrolling in Honors English 11 must successfully complete the summer reading test with a 70% or higher to maintain enrollment in the Honors English Program.

**155 ENGLISH 12** **WEIGHT 1.00**  
**2-DAY CYCLE – FULL YEAR** **1.0 CREDIT**

Students will complete units in grammar/usage, writing, short story/novel, vocabulary development, research, and drama/poetry. Reading selections are from British Literature.

Prerequisite – Successful completion of a non-elective 11th grade English course.

**156 TECHNICAL AND PROFESSIONAL ENGLISH** **WEIGHT 1.00**  
**2-DAY CYCLE – FULL YEAR** **1.0 CREDIT**

Technical and Professional English is an English course for seniors with the purpose of refining professional communication skills. Students will practice the standards of professional written English, use modern informative and literary texts from diverse perspectives to advance their reading and analysis skills, and write in a variety of modes dependent on audience and purpose through a feedback-driven writing process. The course will include a research project and opportunities for students to practice speaking in a professional setting and formalize their professional resume. Students will be given the flexibility to customize their approach to make their work applicable to their plans after graduation.

Prerequisite - Students must be accepted into the cooperative education program in order to schedule this course.

**STC 157 ENGLISH 12** **WEIGHT 1.00**  
**2-DAY CYCLE – TWICE DAILY – SEMESTER** **1.0 CREDIT**

**These courses are designed for students attending the Schuylkill Technology Center**

Students who have already decided to pursue a career or work in a technical environment must take this course. This course's purpose is to develop complex college and career readiness communication skills, including collaboration

and leadership. Students will be engaged in a variety of reading selections with a strong focus on British Literature. Discussions, written responses, and activities/projects will help to build critical thinking skills. The study of language in use – vocabulary, grammar, mechanics, sentence structure, and usage will be incorporated through reading and writing activities/projects.

Prerequisite – Successful completion of Practical English 11. Students must attend STC to schedule this course.

#### **160 CP ENGLISH 12**

**WEIGHT 1.04**

##### **2-DAY CYCLE – FULL YEAR**

**1.0 CREDIT**

Students will complete units in grammar/usage, short story/novel, drama/poetry, research writing and vocabulary development. Reading selections are from British Literature.

Prerequisite – Successful completion of a non-elective 11th grade English course and teacher recommendation.

#### **165 HONORS ENGLISH 12**

**WEIGHT 1.08**

##### **2-DAY CYCLE – FULL YEAR**

**1.0 CREDIT**

Highly motivated students who seek a challenge are encouraged to take this course. A variety of reading selections with a strong focus on British Literature, often thematically related, provide insight into cultural attitudes and values of the past and the influences on the present. Students will be engaged in writing, discussing, and reflecting to build strong critical thinking skills. The study of language in use – vocabulary, grammar, mechanics, sentence structure, and usage will be incorporated through reading and writing activities/projects.

Prerequisite – Successful completion of a non-elective 11th grade English course with a cumulative average of 93% or higher, or successful completion of Honors English 11 with a 90% or higher. Additionally, students enrolling in Honors English 12 must successfully complete the summer reading test with a 70% or higher to maintain enrollment in the Honors English Program.

#### **170 ADVANCED PLACEMENT ENGLISH LITERATURE AND COMPOSITION**

**WEIGHT 1.12**

##### **2-DAY CYCLE – FULL YEAR**

**1.0 CREDIT**

**Students who enroll in an AP Course will be required to take the AP exam. Students who choose not to take the AP exam will not receive full weight for the course.** This course is designed to guide students in an intensive study of World Literature of various genres (short story, novel, poetry, drama, etc.) and to guide students in the composition techniques (exposition, analysis, persuasion, and rhetoric) required to analyze and critique these literary works. This course may be selected in place of CP or Honors English 12. **Students taking this course are required to take the College Board Advanced Placement Exam in English Literature and Composition given at the end of the year.**

Prerequisite – Successful completion of non-elective 11th-grade English courses with a cumulative average of 93% or higher, or successful completion of Honors English 11 with a 90% or higher. Additionally, students enrolling in Advanced Placement English must successfully complete the summer reading test with a 70% or higher to maintain enrollment in this course.

#### **171 ADVANCED PLACEMENT ENGLISH LANGUAGE AND COMPOSITION**

**WEIGHT 1.12**

##### **2-DAY CYCLE – FULL YEAR**

**1.0 CREDIT**

**Students who enroll in an AP Course will be required to take the AP exam. Students who choose not to take the AP exam will not receive full weight for the course. This course is designed to guide students to become critical and responsive readers of diverse texts and to become flexible, reflective writers of texts addressed to diverse audiences and purposes.** This course will emphasize reading and writing of analytic and argumentative texts and will cultivate skills such as critical inquiry, deliberation, argument, reading, writing, listening, and speaking. This course may be selected in place of CP or Honors English 12. **Students taking this course are required to take the College Board Advanced Placement Exam in English Language and Composition given at the end of the year.**

Prerequisite – Successful completion of non-elective 11th-grade English courses with a cumulative average of 93% or higher OR Successful completion of Honors English 11 with a 90% or higher. Additionally, students enrolling in Advanced Placement English must successfully complete the summer reading test with a 70% or higher to maintain enrollment in this course.

#### **172 BROADCAST JOURNALISM WEIGHT 1.04**

##### **2-DAY CYCLE – FULL YEAR**

**1.0 CREDIT**

This course is designed for the study and practice of the basic elements of broadcast journalism. Students will be encouraged to engage in all aspects of the live newscast. They will be coached to write clear, concise, and compelling news. Students must research and report for various news assignments. They will develop Public Service Announcements and video segments. Students will learn the fundamentals of best practice skills for digital media. They will create captions and produce posts on social media. Students will become members of the NS News and Media Group. Students may take this course for up to 3 consecutive years. Students may take this course for up to 3 consecutive years upon teacher approval.

Prerequisite – Successful completion of non-elective 9th grade English course. Students must be in grades 10, 11 and 12.

**174 BROADCAST JOURNALISM**  
**2-DAY CYCLE – SEMESTER A**

**WEIGHT 1.04**  
**0.5 CREDIT**

This course is designed for the study and practice of the basic elements of broadcast journalism. Students will be encouraged to engage in all aspects of the live newscast. They will be coached to write clear, concise, and compelling news. Students must research and report for various news assignments. They will develop Public Service Announcements and video segments. Students will learn the fundamentals of best practice skills for digital media. They will create captions and produce posts on social media. Students will become members of the NS News and Media Group. Students may take this course for up to 3 consecutive years.

Prerequisite – Successful completion of non-elective 9th grade English course. Students must be in grades 10, 11 and 12.

**177 CREATIVE WRITING**  
**2-DAY CYCLE – SEMESTER**

**WEIGHT 1.04**  
**0.5 CREDIT**

This creative writing elective is designed for students who have a passion for writing and a desire to explore their creativity. In this course, students will have the chance to develop their writing skills through exercises and assignments, including short stories, poetry, and personal essays. The class will focus on the elements of craft, including characterization, plot, point of view, and imagery. Additionally, students will also learn how to give and receive constructive feedback on their work.

Prerequisite - Students must have completed 9th grade English with a grade no lower than 85%.

**179 GRAPHIC NOVEL**  
**2-DAY CYCLE – SEMESTER**

**WEIGHT 1.04**  
**0.5 CREDIT**

This graphic novel elective is a unique blend of literature and art that will challenge students to think critically and creatively. Through exploring various graphic novels, students will engage in literary analysis, examining themes, symbols, and character development. They will also learn about the composition of visual storytelling and will create their own graphic novel projects to demonstrate their understanding. Additionally, the class will incorporate elements of art and design, as students will learn about different techniques for creating expressive illustrations and layouts.

Prerequisite - Students must have completed 9th grade English with a grade no lower than 85%.

**180 STORYTELLING THROUGH SPORTS**  
**2-DAY CYCLE – FULL YEAR**

**WEIGHT 1.04**  
**1.0 CREDIT**

This course brings a new category of Literature to life through the dramatic and personal aspects of sports. It includes a variety of genres for anyone interested in sports, including news, features, short stories, essays, biographies, narrative nonfiction, novels, documentary series, film, and other media forms. Students will understand that sports are not just contests, but a metaphor for human experience.

Prerequisite – Must have a B average in previous English courses. Students must be in grades 9, 10, 11, and 12

**181 STORYTELLING THROUGH SPORTS**  
**2-DAY CYCLE – SEMESTER**

**WEIGHT 1.04**  
**0.5 CREDIT**

This course brings a new category of Literature to life through the dramatic and personal aspects of sports. It includes a variety of genres for anyone interested in sports, including news, features, short stories, essays, biographies, narrative nonfiction, novels, documentary series, film, and other media forms. Students will understand that sports are not just contests, but a metaphor for human experience.

Prerequisite – Must have a B average in previous English courses. Students must be in grades 9, 10, 11, and 12

**183 ADVERTISING AND PUBLIC RELATIONS**  
**2-DAY CYCLE – SEMESTER**

**WEIGHT 1.04**  
**0.5 CREDIT**

Advertising and Public Relations is a semester-long elective designed to introduce students to the exciting and ever-changing world of advertising and public relations. In this course, students will learn the basics of creating effective advertising campaigns and strategies for managing a company's public image. Throughout the course, students will analyze and critique real-world advertising and public relations campaigns. This course will be taught with a multimedia approach and real case studies.

**185 FUNDAMENTALS OF PUBLIC SPEAKING**  
**2-DAY CYCLE – SEMESTER**

**WEIGHT 1.08**  
**0.5 CREDIT**

This course is designed to aid 10<sup>th</sup>, 11<sup>th</sup> and 12<sup>th</sup> grade students gain poise and confidence while speaking in public. This semester course introduces students to speech writing and presentation skills and techniques. Students will develop rhetoric and presentation skills through analysis and application, prepare and deliver a variety of effective

speeches through research and practice, and become an empathic listener and a respectful speaker through modeling and experience. Constructive criticism is necessary for evaluation and improvement.

Prerequisite – Successful completion of non-elective 9<sup>th</sup> grade English courses.

**186 DIGITAL PUBLIC SPEAKING**  
**2-DAY CYCLE – SEMESTER**

**WEIGHT 1.08**  
**0.5 CREDIT**

This public speaking course is designed to equip students with the essential skills needed to excel in the ever-evolving landscape of modern communication. Students will explore the nuances of effective communication in today's digital age, mastering the techniques required to articulate ideas persuasively and authentically. Students dive into the principles of digital rhetoric and explore how language, style, and persuasion work in online spaces. Students will learn to adapt communication styles for different platforms and audiences. Throughout the course, students will actively participate in practical exercises, group discussions, and real-world projects to hone their communication skills.

**190 MYTHOLOGY**  
**2-DAY CYCLE – SEMESTER**

**WEIGHT 1.04**  
**0.5 CREDIT**

This course includes the study of myths and heroic legends from ancient Greece and Rome and their relevance to the present-day world. There will be a wide variety of literary sources utilized.

Prerequisite – Must be in grade 11-12.

## MATHEMATICS

**220 ALGEBRA IB**  
**2-DAY CYCLE – TWICE DAILY – FULL YEAR**

**WEIGHT 1.00**  
**2.0 CREDIT**

This course will include a study of the symbolism and structure of algebra that occurs in many other areas of learning with which a student not planning to enter a math- or science- related field should be familiar. Special attention will be given to the Keystone Exam Anchors and eligible Content to prepare students for the Keystone Algebra I Exam that will be taken at the end of the course in the spring. Topics covered will include Simplifying Numerical and Algebraic Expressions, Linear Equations, Functions, and Inequalities, Systems of Linear Equations, Functions, Inequalities, Systems of Linear Equations, Functions, and Expressions, Statistics and Probability.

Prerequisite – Successful completion of 8<sup>th</sup> grade and teacher recommendation.

**225 CP ALGEBRA IB**  
**2-DAY CYCLE – TWICE DAILY – FULL YEAR**

**WEIGHT 1.04**  
**2.0 CREDIT**

This course is designed for the college-bound student. Special attention will be given to the Keystone Exam Anchors and eligible Content to prepare students for the Keystone Algebra I Exam that will be taken at the end of the course in the spring. Topics covered will include Simplifying Numerical and Algebraic Expressions, Linear Equations, Functions, and Inequalities, Systems of Linear Equations, Functions, and Inequalities, Exponents, Radicals, Multiplying and Factoring Quadratic Expressions, Simplifying Rational Expressions, Statistics and Probability.

Prerequisite – Successful completion of 8<sup>th</sup> grade and teacher recommendation.

**229 APPLIED GEOMETRY**  
**2-DAY CYCLE – FULL YEAR**

**WEIGHT 1.00**  
**1.0 CREDIT**

Applied Geometry is a course designed for students looking for an introduction to geometry and geometric thinking as used in the real world. Students will learn basic geometry concepts and how they can be used for problem-solving as needed for academic success. This course includes basic algebra re-enforcement as well. Students attending STC will take STC 229 Applied Geometry.

Prerequisite – Successful completion of Algebra 1B.

**234 INTEGRATED MATH**  
**2-DAY CYCLE – FULL YEAR**

**WEIGHT 1.00**  
**1.0 CREDIT**

This class is designed for juniors who desire to strengthen the math skills needed in the real world. Focusing on a thorough review of number sense and fundamental mathematical concepts, this course aims to reinforce basic-level information essential for academic success. These skills include arithmetic of whole numbers, fractions, decimals, measurements, algebraic topics, geometric topics, statistics, probability, and solving word problems. Students attending STC will take STC 234 Applied Geometry.

Prerequisite – Successful completion of Applied Geometry

**239 BUSINESS MATH AND PERSONAL FINANCE**  
**2-DAY CYCLE – SEMESTER**

**WEIGHT 1.00**  
**1.0 CREDIT**

This course is designed for seniors who upon graduation will be entering the workforce or attending a business school. Topics covered will include payroll calculations, taxes, budgeting, and banking. Students will also learn about types of insurance and loans. This class may count as a senior math elective  
Prerequisite – Successful completion of Transitional Math or Practical Algebra 2 and teacher recommendation. Students must also have senior status.

#### **240 CP ALGEBRA II**

**WEIGHT 1.04**

##### **2-DAY CYCLE – FULL YEAR**

**1.0 CREDIT**

This course is designed for the college-bound student. It will include a review of algebra topics. Additional topics covered will include solving equations and inequalities; functions and their graphs; systems of equations and inequalities; operations with polynomials; factoring; rational expressions and equations; irrational and complex numbers; solving quadratic equations; graphing quadratic functions in a plane.

Prerequisite – Successful completion of CP Geometry and teacher recommendation.

#### **241 HONORS ALGEBRA II**

**WEIGHT 1.08**

##### **2-DAY CYCLE – FULL YEAR**

**1.0 CREDIT**

The early portion of this course covers a review of basic algebra topics that were covered in Honors Algebra I. Additional topics include in-depth work with equations and inequalities; functions and their graphs; polynomials' rational expressions and equations; irrational and complex numbers and quadratic functions. Students will be required to complete a summer review packet prior to the start of the school year in preparation for this course. There will be a test during the first week of school year on the material contained in the summer review packet. This test will count toward the first marking period grade

Prerequisite – Successful completion of Honors Geometry with a cumulative average of an 85% or higher or CP Geometry with a cumulative 93% and teacher recommendation.

#### **245 CP GEOMETRY**

**WEIGHT 1.04**

##### **2-DAY CYCLE – FULL YEAR**

**1.0 CREDIT**

This course is designed for the college-bound student. Topics covered include the same as those in Basic Geometry but in much greater depth. Emphasis is placed on proofs and using inductive and/or deductive reasoning. Coordinate Geometry and the basic trigonometric functions are introduced.

Prerequisite – Successful completion of CP Algebra IB and teacher recommendation.

#### **246 HONORS GEOMETRY**

**WEIGHT 1.08**

##### **2-DAY CYCLE – FULL YEAR**

**1.0 CREDIT**

Topics include using definitions, postulates, and theorems in a logical reasoning process to reach conclusions pertaining to lines, planes, angles, polygons, and circles. Students must complete a summer review packet before the start of the school year to prepare for this course. There will be a test during week 1 of the school year on the material contained in the summer review packet. This test will count toward the first marking period grade. Students in Honors Algebra for 8th grade but did not score proficient on the Keystone Algebra I exam will be remediated and retested in the winter of Honors Geometry. If a student does not score proficient the second time, the student will be moved to CP Algebra II the following year.

Prerequisite – This course is designed specifically for students entering 9th grade who have successfully completed Honors Algebra I for 8th grade with a cumulative average of 85% or higher and teacher recommendation.

#### **250 PRE-CALCULUS**

**WEIGHT 1.04**

##### **2-DAY CYCLE – FULL YEAR**

**1.0 CREDIT**

This course is designed for the college-bound student as an introduction to Trigonometry and Analytic Geometry. Topics covered will include conversion between degrees and radians, solving right triangles, trigonometric functions, proving trig identities, trigonometric equations, and conic sections. Students will also develop methods for graphing functions that include horizontal and vertical shifts, reflections, stretching, lines of symmetry, inverses, and asymptotes.

Prerequisite – Successful completion of CP Algebra II or Honors Algebra II.

#### **255 HONORS PRE-CALCULUS**

**WEIGHT 1.08**

##### **2-DAY CYCLE – FULL YEAR**

**1.0 CREDIT**

This course is designed for the college bound student. It blends the concepts and skills that must be mastered before taking a college-level calculus or physics course. This course includes the study of trigonometry in triangles, trigonometric functions, trigonometric identities and equations, relations and functions, analytic geometry, exponential and logarithmic functions, limits and continuity and touches on topics such as sequences, series and polar coordinates as well as other calculus topics. This course is required to take Advanced Placement Calculus. A graphing calculator is recommended for this course. Students will be required to complete a summer review packet prior to the start of the school year in preparation for this course. There will be a test during the first week of the

school year on the material contained in the summer review packet. This test will count toward the first marking period grade.

Prerequisite – Successful completion of Honors Algebra II with a cumulative average of a 85% or higher or CP Algebra II with a cumulative average of a 93% or higher.

**259 INTRODUCTION TO PROBABILITY AND STATISTICS**  
**2-DAY CYCLE – FULL YEAR**

**WEIGHT 1.00**  
**1.0 CREDIT**

This course will cover the different types of statistics, their measures of central tendency, position and variation. This course will be a more hands-on course with students conducting surveys and using them as applications for the types of statistics. Students will learn about writing sample space and determining probability of outcomes. Students will conduct experiments and make conjectures between theoretical and experimental probability. Topics covered in this class will include: inferential and descriptive statistics, qualitative and quantitative variables, mean, median, mode, range, midrange, variance, standard deviation, z-score, frequency distributions, sample spaces, outcomes and events, permutations and combinations, normal distributions and interpretation of graphs and data.

Prerequisite – Successful completion of Applied Geometry.

**260 PROBABILITY AND STATISTICS**  
**2-DAY CYCLE – FULL YEAR**

**WEIGHT 1.04**  
**1.0 CREDIT**

This course is designed for the college-bound student and will cover statistical graphs and computational analysis of data. Combinations, permutations, conditional probability, distributions with discrete and continuous random variables will be explored. Estimation with parameters, hypothesis testing, and linear correlation and regression will also be discussed. Students may not take both Probability and Statistics and Advanced Placement Statistics.

Prerequisite – Successful completion of CP Algebra II or Honors Algebra II and teacher recommendation.

**263 ADVANCED PLACEMENT STATISTICS**  
**2-DAY CYCLE – FULL YEAR**

**WEIGHT 1.12**  
**1.0 CREDIT**

**Students who enroll in an AP Course will be required to take the AP exam. Students who choose not to take the AP exam will not receive full weight for the course.**

The purpose of the AP course in statistics 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: 1. Exploring Data: Describing patterns and departures from patterns; 2. Sampling and Experimentation: Planning and conducting a study; 3. Anticipating Patterns: Exploring random phenomena using probability and simulation; 4. Statistical Inference: Estimating population parameters and testing hypotheses. Students who successfully complete the course and exam may receive college credit, advanced placement, or both for a one-semester introductory college statistics course. Students will be required to complete a summer review packet prior to the start of the school year in preparation for this course. There will be a test during the first week of the school year on the material contained in the summer review packet. This test will count toward the first marking period grade.

Prerequisite – For incoming juniors, successful completion of Honors Algebra 2 with a cumulative average of 93% to take both AP stat and Honors Pre-Calculus, for incoming senior's successful completion of Honors Pre-Calculus with a cumulative 85% or Pre-Calculus with a cumulative average of 90% and teacher recommendation. Students who have taken Probability and Statistics cannot enroll in this course.

**266 ADVANCED PLACEMENT PHYSICS**  
**2-DAY CYCLE – FULL YEAR**

**WEIGHT 1.12**  
**1.0 CREDIT**

Students who enroll in an AP Course are required to take the AP exam. Students who choose not to take the AP exam will not receive full weight for the course. AP Physics 1 is an algebra-based, introductory college-level physics course that will follow the goals set by the College Board. This course is designed for the science-oriented student and is math-intensive. Topics included are a review of the relevant math, problem solving techniques, motion in one and two dimensions, Newton's law of motion, circular motion and gravitation, energy conservation and collisions, power, simple machines, momentum, rotational motion, and fluid mechanics. Lab work will be done to reinforce topics by lecture. A scientific (or graphing) calculator is required. There will be a test during the first week of school on the summer review packet material. This test will count toward the first marking period grade.

Prerequisite- Grade of 85% or better in Honors Algebra 2 or a 93% in CP Algebra 2 and teacher recommendation. Students must have either successfully completed Honors Pre-Calculus or Pre-Calculus or be taking either of these concurrently.

**265 CALCULUS**  
**2-DAY CYCLE – FULL YEAR**

**WEIGHT 1.08**  
**1.0 CREDIT**

This course is designed to give students an adequate background in higher mathematics upon entering college. Topics covered will include a study of linear, quadratic, polynomial, exponential, logarithmic, and trigonometric functions and the differentiation and integration of these functions with applications. Students must complete a summer review packet before the start of the school year to prepare for this course. There will be a test during the

first week of the school year on the material contained in the summer review packet. This test will count toward the first marking period grade.

Prerequisite – Successful completion of Honors Pre-Calculus with a cumulative average of 85% or higher or Pre-Calculus with a cumulative average of a 93% or higher.

**271 DUAL ENROLLMENT CALCULUS I**  
**2 DAY CYCLE-FULL YEAR**

**WEIGHT 1.12**  
**1.0 CREDIT**

This class will be taught following Lehigh Carbon Community College's MAT191 Calculus and Analytic Geometry Class. Topics include functions of one variable, limits and continuity, derivatives, and integrals. The course will focus on the conceptual aspects of calculus with applications to modeling and problem-solving from across the sciences and engineering. Students will have the option to earn 4 college credits through Lehigh Carbon Community College. Cost per credit is \$96. The total for the 4-credit class is \$384. If students do not wish to receive dual enrollment credits, they will not be required to pay for the course. Prerequisite: Successful completion of Honors Precalculus with a cumulative average of 95% or higher. According to our dual enrollment policy, 11th-grade students must maintain a cumulative GPA of 95% or higher, while 12th-grade students must have a cumulative GPA of 93% or higher to be eligible for enrollment in a dual enrollment course.

**275 DUAL ENROLLMENT INTRODUCTION TO COMPUTERS AND APPLICATIONS**  
**2 DAY CYCLE-FULL YEAR**

**WEIGHT 1.12**  
**1.0 CREDIT**

This course is a dual enrollment course with LCCC. It is designed to help students become effective, informed digital citizens who navigate the internet securely and who are prepared to do college-level work using appropriate technology. It is intended for students with little or no computer experience. The course is taught in a problem-based learning environment in which students explore technology and determine how best to apply it. Topics covered include security issues inherent in the use of technology, how software is created and used, and the traits of good cyber citizenship. Students will learn how to construct academic work using documents, spreadsheets, and presentations. Prerequisite: Successful completion of Honors Algebra II or CP Algebra II. According to our dual enrollment policy, 11th-grade students must maintain a cumulative GPA of 95% or higher, while 12th-grade students must have a cumulative GPA of 93% or higher to be eligible for enrollment in a dual enrollment course.

## **COMPUTERS**

**286 COLLEGE EXCEL**  
**2-DAY CYCLE – SEMESTER**

**WEIGHT 1.08**  
**0.5 CREDIT**

In this course, students will explore Excel activities that go beyond the basics in preparation for skills needed to be successful in the post-secondary/collegiate world. After successful completion of this course, students will have the skills required to solve real-world problems. Students will use Excel's built-in functions to perform complex calculations. You will also create charts, use graphics, and data management skills in an Excel database.

Prerequisite – Must be in grade 11-12

**287 ARTIFICIAL INTELLIGENCE**  
**2-DAY CYCLE – SEMESTER**

**WEIGHT 1.00**  
**0.5 CREDIT**

In this Introduction to AI course, students learn to apply AI tools effectively and ethically in various academic areas. The course covers basic AI concepts and their practical use in enhancing creativity and problem-solving across subjects. A focus on responsible AI usage, especially in avoiding plagiarism, is integral. Projects and activities are designed for all skill levels, emphasizing AI's role in both academic and everyday contexts.

Prerequisite – Must be in grades 9-12

**292 APPLICATION DEVELOPMENT**  
**2-DAY CYCLE-SEMESTER**

**Weight 1.04**  
**0.5 CREDIT**

This course teaches students computer science by using App Inventor to build socially useful mobile apps through projects that emphasize communication, collaboration, and creativity. The course provides a basic introduction to computer science topics in areas such as algorithms, data, binary representation, modeling, abstraction, and the internet.

Prerequisite- Students must have successfully completed Algebra I.

**295 PROGRAMMING IA**  
**2-DAY CYCLE – SEMESTER**

**WEIGHT 1.08**  
**0.5 CREDIT**

The course introduces the fundamental concepts of procedural programming. Topics include algorithms and problem solving, data types, control structures, functions, arrays, files, and the mechanics of running, testing, and debugging. The course also offers an introduction to the historical and social context of computing.

Prerequisite – Student must be currently taking or completed CP Algebra 2.

**296 PROGRAMMING IB**  
**2-DAY CYCLE – SEMESTER**

**WEIGHT 1.08**  
**0.5 CREDIT**

The course continues the study of the fundamental concepts of procedural programming. Topics include algorithms and problem solving, data types, control structures, functions, arrays, files, and the mechanics of running, testing, and debugging. The course also introduces the historical and social context of computing.

Prerequisite – Student must be currently taking or completed CP Algebra 2. Student must have completed Programming IA.

**297 PROGRAMMING IIA**  
**2-DAY CYCLE – SEMESTER**

**WEIGHT 1.08**  
**0.5 CREDIT**

The course continues the study of the fundamental concepts of procedural programming to include more advanced topics. Topics include algorithms and problem solving, data types, control structures, functions, arrays, files, and the mechanics of running, testing, and debugging. The course also introduces the historical and social context of computing.

Prerequisite - Successful completion of Programming IA and IB.

**298 PROGRAMMING IIB**  
**2-DAY CYCLE – SEMESTER**

**WEIGHT 1.08**  
**0.5 CREDIT**

The course continues the study of the fundamental concepts of procedural programming to include more advanced topics. Topics include algorithms and problem-solving, data types, control structures, functions, arrays, files, and the mechanics of running, testing, and debugging. The course also introduces the historical and social context of computing.

Prerequisite - Successful completion of Programming IIA.

## **SOCIAL STUDIES**

**320 AMERICAN HISTORY II**  
**2-DAY CYCLE – FULL YEAR**

**WEIGHT 1.00**  
**1.0 CREDIT**

This course will cover the period of American history starting at the beginning of the 20th century to the present. The main objective of the course will be to give students a clear understanding of how the United States developed into a world power. The course will be divided between domestic and world affairs - including the major wars of this time period, and each topic presented will be examined in terms of its relationship to current local, state, federal, and/or world affairs.

Prerequisite – This is a 9th grade core requirement that all 9th grade students must schedule.

**321 CP AMERICAN HISTORY II**  
**2-DAY CYCLE – FULL YEAR**

**WEIGHT 1.04**  
**1.0 CREDIT**

This course will cover the period of American History starting at the beginning of the 20th century to the present. The main objective of the course will be to give students a clear understanding of how the United States developed into a world power. The course will be divided between domestic and world affairs – including the major wars of this time period, and each topic presented will be examined in terms of its relationship to current local, state, federal, and/or world affairs. Students will be required to work extensively with primary sources to conduct historical research.

**American History II is a 9th grade core requirement that all 9th grade students must schedule.** Additional independent work and research assignments will be a course requirement.

Prerequisite – Successful completion of American History I with a 90% or better final average.

**322 CIVICS**  
**2-DAY CYCLE – FULL YEAR**

**WEIGHT 1.00**  
**1.0 CREDIT**

The Civics course presents six elements. The first component defines government and why it exists while the second portion explores what events led to American Independence. The third element discusses how history influenced and continues to influence the Constitution. Component four focuses on the federal system. Elements five and six delve into the three branches of government and the role of foreign policy. Civics is a 10th grade core requirement that all 10th grade students must schedule.

Prerequisite – Successful completion of American History II.

**323 CP CIVICS**

**WEIGHT 1.04**



**2-DAY CYCLE – FULL YEAR****1.0 CREDIT**

The Civics course presents six elements. The first component defines government and why it exists while the second portion explores what events led to American Independence. The third element discusses how history influenced and continues to influence the Constitution. Component four focuses on the federal system. Elements five and six delve into the three branches of government and the role of foreign policy. Additional independent work and research assignments will be a course requirement. Civics is a 10th grade core requirement that all 10th grade students must schedule.

Prerequisite – Successful completion of American History II with a 90% or better final average.

**325 WORLD HISTORY****WEIGHT 1.00****2-DAY CYCLE – FULL YEAR****1.0 CREDIT**

This course includes basic units of early and later Stone Age peoples and continues with the emergence of the following early civilizations: Egyptian, Sumerian, Babylonian, Assyrian, Hebrew, Phoenician, Persian, Chaldean, and Lydian. The history, geography, and contributions of these civilizations will be discussed. Classical Greece and Rome will be examined closely, as will Medieval Europe, feudal society, the Renaissance, and the Reformation. The building of national monarchies in Europe and the Byzantine and Islamic civilizations will also be covered.

Prerequisite – This is an 11th grade core requirement that all 11th grade students must schedule.

**326 CP WORLD HISTORY****WEIGHT 1.04****2-DAY CYCLE – FULL YEAR****1.0 CREDIT**

This course includes basic units of early and later Stone Age peoples and continues with the emergence of the following early civilizations: Egyptian, Sumerian, Babylonian, Assyrian, Hebrew, Phoenician, Persian, Chaldean, and Lydian. The history, geography, and contributions of these civilizations will be discussed. Classical Greece and Rome will be examined closely, as will Medieval Europe, feudal society, the Renaissance, and the Reformation. The building of national monarchies in Europe and the Byzantine and Islamic civilizations will also be covered. Additional independent work and research assignments will be a course requirement. **World History is an 11th grade core requirement. All 11th grade students must schedule a World History course.**

Prerequisite – Successful completion of Civics with a 90% or better final average

**328 INTRODUCTION TO LAW****WEIGHT 1.00****2-DAY CYCLE – FULL YEAR****1.0 CREDIT**

This course includes the history of law, the court system, ethics, criminal, tort, and contract law. Additional topics may include cyber law and environmental law. Group work is frequently employed, and an individual independent research/presentation project will be required.

Prerequisite – Student must be in grades 10 - 12.

**330 PA CULTURES AND HISTORY/RESEARCH****WEIGHT 1.04****2-DAY CYCLE – FULL YEAR****1.0 CREDIT**

This course covers the history, geography, and culture of the state of Pennsylvania. The different ethnic groups and Indian tribes of the state, and the Colonial and Revolutionary periods will also be topics that are examined. Governmental structures of the state and its counties, its educational history and structure, and the history of transportation and industry will also be stressed, and a brief study of Schuylkill County and the Anthracite coal industry will be included. Research of people, places, and events in our state and county will be required, as will at least one major research project.

Prerequisite – Student must be in grade 11 or 12.

**335 SOCIAL ISSUES OF THE 21<sup>ST</sup> CENTURY I****WEIGHT 1.04****2-DAY CYCLE – SEMESTER****0.5 CREDIT**

This comprehensive course will include coverage of several distinct disciplines of Social Studies: history, geography, sociology, government, economics, anthropology, and psychology. Current events and world affairs will be central focuses and dictate the direction of the course.

Prerequisite – Student must be in grade 11 or 12.

**336 SOCIAL ISSUES OF THE 21<sup>ST</sup> CENTURY II****WEIGHT 1.04****2-DAY CYCLE – SEMESTER****0.5 CREDIT**

This comprehensive course will include coverage of several distinct disciplines of Social Studies: history, geography, sociology, government, economics, anthropology, and psychology. Current events and world affairs will be central focuses and dictate the direction of the course.

Prerequisite – Student must be in grade 11 or 12.

**340 GEOGRAPHY****WEIGHT 1.08****2-DAY CYCLE – FULL YEAR****1.0 CREDIT**

This course will emphasize Human Geography but will also include some place geography. Students will explore topics such as the five themes of geography, development, demography, political and economic systems, intergovernmental organizations, human rights, globalization, cultural relativism, and international relations. Projects, research papers, reflections, and discussion that emphasize students' ability to factually defend their viewpoints will be required.

Prerequisite – Successful completion of previous year's Social Studies course with an average of 93% or higher. Students must be in 11<sup>th</sup> or 12<sup>th</sup> grade.

### **345 SOCIOLOGY**

**WEIGHT 1.00**

#### **2-DAY CYCLE – FULL YEAR**

**1.0 CREDIT**

This is a general survey course that pays special attention to the influence of group living and human behavior in order to enhance the study of the fundamental principles of human social history and offer some insights into the diverse social problems of today. This course will help the student to develop a tolerance and understanding of differences, think objectively about society, and foster a belief that solutions can be found to any problem.

Prerequisite – Student must be in grade 11 or 12.

### **350 SOCIOLOGY PRACTICUM**

**WEIGHT 1.08**

#### **2-DAY CYCLE – FULL YEAR**

**1.0 CREDIT**

This course is offered as a more in-depth alternative to Sociology. Students taking this course must complete three objectives: 1. An introduction to the science of sociology, through familiarization with important sociological concepts, research findings, and basic principles; 2. The development of a more accurate picture of the nature and content areas of Sociology; and 3. The completion of an empirical, logical, and objective study of a sociological problem, the method, and results of which will be reduced to a research paper/project.

Prerequisite – Successful completion of previous year's Social Studies course with an average of 93% or higher. Students must be in grade 11th or 12th grade.

### **355 U.S. GOVERNMENT**

**WEIGHT 1.04**

#### **2-DAY CYCLE – SEMESTER**

**0.5 CREDIT**

This course introduces students to the science of America's government by familiarizing them with important democratic concepts, basic principles, and political findings. Various issues facing our democracy will be examined, as will the intriguing game and processes of American politics, and the concepts of Economics and how our government utilizes economic policy in our evolving bureaucratic system of government. The course will culminate with a student research project dealing with the issues facing our national government.

Prerequisite – Student must be in grade 11 or 12.

### **356 ECONOMICS**

**WEIGHT 1.04**

#### **2-DAY CYCLE – SEMESTER**

**0.5 CREDIT**

This course introduces the students to the basic concepts of Economics. The students will learn about the flow of money and resources to various places in the market. The students will learn how economics affects their everyday lives. Finally, the course will end with a research project.

Prerequisite – Students must be in grades 11 or 12.

### **359 UNITED STATES MILITARY HISTORY I**

**WEIGHT 1.04**

#### **2-DAY CYCLE – SEMESTER**

**0.5 CREDIT**

Examine the role of the military and conflict on the United States. Students will research and analyze the strategic, technological, cultural, and political influence of warfare on United States history and the development of our country from the Revolutionary War to the War on Terror. Additionally, this course will debate the many reasons why Military History is the most common theme of modern popular history.

Prerequisite – Successful completion of American History II with a B average or higher. Students must be in 11th and 12th grade.

### **361 UNITED STATES MILITARY HISTORY II**

**WEIGHT 1.04**

#### **2-DAY CYCLE – SEMESTER**

**0.5 CREDIT**

Examine the role of the military and conflict on the United States. Students will research and analyze the strategic, technological, cultural, and political influence on warfare on United States history and the development of our country from the start of the 20th Century to modern times. Additionally, this course will debate the many reasons why Military History is the most common theme of modern popular history.

Prerequisite – Successful completion of American History II. Students must be in 11th or 12th grade.

### **370 PSYCHOLOGY**

**WEIGHT 1.04**

#### **2-DAY CYCLE – FULL YEAR**

**1.0 CREDIT**

This is an elective course offered to students who want a better understanding of human behavior. The course includes an introduction to psychology and the methods of psychological study, the principles of learning, the study

and measurement of personality, and the study of stress, behavioral disorders, and their treatment. Career options in the field of psychology are also briefly explored in this course.

Prerequisite – Students must be in 10<sup>th</sup>, 11<sup>th</sup> or 12<sup>th</sup> grade.

**375 ADVANCED PLACEMENT UNITED STATES GOVERNMENT AND POLITICS**  
**2-DAY CYCLE – FULL YEAR**

**WEIGHT 1.12**  
**1.0 CREDIT**

**Students who enroll in an AP Course will be required to take the AP exam. Students who choose not to take the AP exam will not receive full weight for the course.**

In this course, students will study the key concepts and institutions of the political system and culture of the United States. Students will read, analyze, and discuss the U.S. Constitution and other documents as well as complete a research or applied civics project.

Prerequisite – Successful completion of 10<sup>th</sup> grade CP Civics with a 93% or better. Students must be in 11<sup>th</sup> or 12<sup>th</sup> grade with a current teacher recommendation to take this course.

**380 ADVANCED PLACEMENT UNITED STATES HISTORY**  
**2-DAY CYCLE – FULL YEAR**

**WEIGHT 1.12**  
**1.0 CREDIT**

**Students who enroll in an AP Course will be required to take the AP exam. Students who choose not to take the AP exam will not receive full weight for the course.**

The AP U.S. History course is designed to provide students with the analytic skills and factual knowledge necessary to deal critically with the problems and materials in U.S. history. The program prepares students for intermediate and advanced college courses by making demands upon them equivalent to those made by full-year introductory college courses. Students should learn to assess historical materials - their relevance to a given interpretive problem, reliability, and importance - and to weigh the evidence and interpretations presented in historical scholarship. An AP U.S. History course should thus develop the skills necessary to arrive at conclusions based on an informed judgment and to present reasons and evidence clearly and persuasively in essay format.

Prerequisite – Successful completion of American History I & II, and World History with a 93% or better average in each course.

## SCIENCE

**410 INTRODUCTION TO BIOLOGY AND CHEMISTRY**  
**2-DAY CYCLE – FULL YEAR**

**WEIGHT 1.00**  
**1.0 CREDIT**

This 9<sup>th</sup> required course will emphasize the connections between chemistry and significant biological concepts.

Topics covered will include biological structures and processes, patterns and concepts in biological diversity, and the chemical basis of life. This class will serve as a foundation for later secondary science courses.

**411 CP INTRODUCTION TO BIOLOGY AND CHEMISTRY**  
**2-DAY CYCLE – FULL YEAR**

**WEIGHT 1.04**  
**1.0 CREDIT**

This 9<sup>th</sup> grade required course will emphasize the connections between chemistry and significant biological concepts. Topics covered will include biological structures and processes, patterns and concepts in biological diversity, and the chemical basis of life. The level of information will be more as a foundation for later secondary science courses. The level of information will be more in depth. Assignments and labs may require more time and effort to complete. More emphasis will be placed on self-sufficiency.

Prerequisite - Successful completion of 8<sup>th</sup> grade science with 85% or higher.

**413 EARTH AND SPACE SCIENCE**  
**2-DAY CYCLE – FULL YEAR**

**WEIGHT 1.00**  
**1.0 CREDIT**

This course provides the student with the background needed for understanding and appreciating the recent discoveries and activities that have created the new era in astronomy and the creation of Earth and its features. Students will explore Earth from the tallest mountains to its core. This course will also deal with the role astronomy has played in enriching our cultural and scientific heritage and present an enlarged perspective of our relationship with the universe. This course will be informative, emphasizing activities and projects.

Prerequisite – Student must be in 9<sup>th</sup> or 10<sup>th</sup> grade.

**415 BIOLOGY I**  
**2-DAY CYCLE – FULL YEAR**

**WEIGHT 1.00**  
**1.0 CREDIT**

This course will provide non-college bound students with an opportunity to explore fundamental principles of living things while developing scientific problem-solving skills and laboratory techniques. Topics covered will include science as a process, structure and function of cells, energy transformations, genetics and heredity, evolution, classification, diversity of life and ecology. Keystone Biology exam will be taken as a requirement of this course.

Prerequisite – Successful completion of Foundations of Biology and Chemistry

**STC 417 BIOLOGY I****WEIGHT 1.00****2-DAY CYCLE – TWICE DAILY – SEMESTER****1.0 CREDIT**

This class is for students attending the Schuylkill Technology Center.

It will provide students with a thorough coverage of the basic principles of biology, including scientific method, the chemistry of life, bioenergetics, homeostasis and transport, cell growth and reproduction, genetics, theory of evolution, and ecology. The Keystone Biology Test will be taken as a requirement of this course.

Prerequisite – Students must be attending STC to schedule this course.

**420 CP BIOLOGY****WEIGHT 1.04****2-DAY CYCLE – TWICE DAILY – SEMESTER****1.0 CREDIT**

This course covers topically what is found in Biology 415 but more academically rigorously. Emphasized topics include: the chemical basis of life, cellular energetics, homeostasis and transport, cell growth and reproduction, protein synthesis, organic variation, theories of evolution and ecology. Extensive laboratory work and research projects are required. The Keystone Biology exam will be taken upon completion of this course.

Prerequisite – Successful completion CP Foundations of Biology and Chemistry or CP 9<sup>th</sup> Grade Science with an average of 90% or higher and/or teacher recommendation.

**STC 422 ENVIRONMENTAL SCIENCE****WEIGHT 1.00****2-DAY CYCLE – TWICE DAILY – SEMESTER****1.0 CREDIT**

This class is for students attending the Schuylkill Technology Center. Students will explore topics which will include scientific methods, environmental decision-making, ecology, water pollution, invasive/endangered species, air pollution, energy, and waste disposal methods. Local environmental problems will be introduced and discussed.

Prerequisite – Students must be attending STC to schedule this course.

**425 HUMAN ANATOMY & PHYSIOLOGY****WEIGHT 1.08****2-DAY CYCLE – TWICE DAILY – SEMESTER****1.0 CREDIT**

This course is designed as an advanced biology course intended for the serious student interested in pursuing a career in the medical or other biologically related field. The overall theme of the course is “Homeostasis” and how the 11 human organ systems work together to achieve this. Topic covered will include history of anatomy and physiology, histology, skeletal, cardiovascular, respiratory, and digestive system. Research, presentations, and lab work, including dissections, will accompany the topics described above.

Prerequisite – Successful completion of 10th grade CP Biology with a grade of “B” or better.

**426 HUMAN ANATOMY & PHYSIOLOGY II****WEIGHT 1.08****2-DAY CYCLE – TWICE DAILY – SEMESTER****1.0 CREDIT**

This course is designed as a continuation of Human Anatomy and Physiology I. Systems that will be covered in this course include muscular, excretory, endocrine, lymphatic, and nervous, including special senses. Research, presentations, and lab work – including dissections – will accompany the topics described above.

Prerequisite – Successful completion of Human Anatomy and Physiology I with a grade of “B” or better.

**430 ENVIRONMENTAL SCIENCE****WEIGHT 1.00****2-DAY CYCLE – FULL YEAR****1.0 CREDIT**

This course deals with basic concepts of ecology including energy, limiting factors, competition, and population dynamics. The complex nature of local and global problems mankind faces will be discussed through a decision-making model. This course will emphasize water quality issues with hands-on experience in chemical testing of samples from local streams and macroinvertebrate identification. Additional topics will include renewable/non-renewable energy sources, agriculture and society, and endangered species. Students will be responsible for experimental design, information retrieval, record keeping, statistical analysis, and written and/or oral exploration of results.

Prerequisite – Successful completion of 10th grade Biology or CP Biology.

**432 ADVANCED PLACEMENT ENVIRONMENTAL SCIENCE****WEIGHT 1.12****2-DAY CYCLE – FULL YEAR****1.0 CREDIT**

**Students who enroll in an AP course will be required to take the AP exam. Students who choose not to take the AP exam will not receive full weight for the course.**

This course is interdisciplinary and is designed to provide highly motivated students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the risks associated with these problems, and to examine alternative solutions for resolving and/or preventing them. This will be accomplished by self-guided studies, lectures, labs and working with local organizations.

Prerequisite – 85% or higher in CP Biology, 93% or higher in all other sciences.

**442 SCIENCE OF FOOD****WEIGHT 1.00****2-DAY CYCLE – FULL YEAR****1.0 CREDIT**

Science of Food integrates many branches of science and touches every aspect of our lives. Students will evaluate food processing techniques, food analysis, sensory perception of foods, food safety, food product development, and vitamins and mineral content of the foods we eat. This course will expose students to the wonders of science as it relates to the foods enjoyed by all.

Prerequisite – Students must be in 9th or 10th grade to take this course.

**445 HONORS CHEMISTRY I****WEIGHT 1.08****2-DAY CYCLE – TWICE DAILY – SEMESTER****1.0 CREDIT**

This course includes a review of basic mathematics and algebra, a study of atomic structure, classification of elements, writing chemical formulas, balancing chemical equations, empirical and molecular formula calculations, percentage composition, stoichiometric relationships, acids, bases, salts, and balancing equations by ionic and oxidation-reduction methods. Also included will be descriptive and quantitative studies of solution stoichiometry. The laboratory part of this course will introduce the student to various laboratory procedures, and the writing of a proper lab report or lab notebook.

Prerequisite – Successful completion of 10th grade CP Biology and Algebra II or Algebra IB, and Honors Algebra IB.

**447 CHEMISTRY I****WEIGHT 1.04****2-DAY CYCLE – FULL YEAR****1.0 CREDIT**

This introductory course will cover much of the same material as HONORS Chemistry, with less emphasis on mathematical application and greater emphasis on descriptive chemistry. Some basic math skills are still needed, however. The following topics will be covered: atomic structure, quantum theory, classification of elements, periodic law, chemical formula writing, balancing chemical equations, and introductory stoichiometry.

Prerequisite – Successful completion of Algebra IB and one science course beyond 9th grade Science. This course is not open to students that are in or have taken **HONORS** Chemistry.

**464 BIOLOGY II****WEIGHT 1.04****2-DAY CYCLE – FULL YEAR****1.0 CREDIT**

Biology II offers an alternative for highly motivated students who want to continue their study of biology without the requirement of taking the Advanced Placement exam. Through a series of lectures and labs we will explore the chemical basis of life, physiology of cells, energy transformations, meiosis and the cell cycle, Mendelian genetics, classification, theories and patterns of evolution, and global ecological issues.

Prerequisite - Successful completion of Biology with a "B" or better required.

**465 ADVANCED PLACEMENT BIOLOGY****WEIGHT 1.12****2-DAY CYCLE – FULL YEAR AND****1.5 CREDIT****1-DAY CYCLE – FULL YEAR LAB**

**Students who enroll in an AP Course will be required to take the AP exam. Students who choose not to take the AP exam will not receive full weight for the course.**

This course is designed to provide highly motivated college bound students with an opportunity to participate in college level courses while still in high school. Through a series of laboratories and lectures, we will explore such topics as properties of water, organic compounds, enzymes, cellular energetics, protein synthesis, diversity of life, Mendelian Genetics, classification, theories, patterns of evolution and ecology.

Prerequisite – 90% or higher in CP Biology required.

**470 METEOROLOGY****WEIGHT 1.04****2-DAY CYCLE – SEMESTER****0.5 CREDIT**

Students will study meteorology topics such as composition and structure of the atmosphere, the sun's role in heating the earth, weather maps and charts, fronts, storms, etc. In addition, selected climatology topics will be studied.

Prerequisite – Successful completion of 9th grade Science and Biology.

**475 OCEANOGRAPHY****WEIGHT 1.04****2-DAY CYCLE – SEMESTER****0.5 CREDIT**

Students will study oceanographic topics including characteristics of the ocean's floor, water composition, currents, shoreline effects, waves, and diversity of ocean life. The course will be informative, emphasizing activities and projects.

Prerequisite – Completion of 9th grade Science and Biology.

**480 ADVANCED PLACEMENT CHEMISTRY****WEIGHT 1.12****2-DAY CYCLE – FULL YEAR AND****1.5 CREDIT**

### **1-DAY CYCLE – FULL YEAR LAB**

**Students who enroll in an AP Course will be required to take the AP exam. Students who choose not to take the AP exam will not receive full weight for the course.**

AP Chemistry is designed to provide exceptionally motivated students with an opportunity to participate in a college level course and, potentially earn college credit while still in high school. This semester long course meets daily for two periods. Through lectures and many laboratories, we will explore topics like quantum chemistry, properties of solids, liquids, gases and solutions, kinetics, equilibrium, thermodynamics, electrochemistry, nuclear and organic chemistry. Additionally, advanced laboratory techniques and procedures, including spectroscopy and titration, will be introduced. This course is rigorous, fast-paced, mathematically scrupulous, and lab-intensive. Students who have taken Chemistry II may not schedule this course.

Prerequisite – Grade of B or better in Honors Chemistry and currently enrolled in or successful completion of Pre-Calculus or Honors Pre-Calculus.

## **FOREIGN LANGUAGE**

### **520 SPANISH I**

**WEIGHT 1.00**

#### **2-DAY CYCLE – FULL YEAR**

**1.0 CREDIT**

Students will be provided with a general introduction to the Spanish language which includes sound system, pronunciation, functional vocabulary related to everyday life, cultural information, and basic grammatical structures. The emphasis will be on the acquisition of four skills: listening, speaking, reading, and writing. Students will be able to carry on a simple conversation and obtain a basic understanding of Spanish culture, vocabulary, and grammatical concepts.

### **525 SPANISH II**

**WEIGHT 1.04**

#### **2-DAY CYCLE – FULL YEAR**

**1.0 CREDIT**

Spanish II builds upon knowledge gained in Spanish I. This course will reinforce the skills learned in Spanish I: listening, speaking, reading, and writing. Emphasis is on perfecting pronunciation, mastery of the basic grammatical structures, and increased communicative proficiency. Acquisition of functional vocabulary is expected. Students will be exposed to the preterit tense (past tense). Students will be expected to apply them in their writing and speaking. Students will be able to carry on a simple conversation using expanded vocabulary and continue to gain an understanding of Spanish culture, vocabulary, and grammatical concepts.

Prerequisite – Successful completion of Spanish I.

### **530 SPANISH III**

**WEIGHT 1.08**

#### **2-DAY CYCLE – FULL YEAR**

**1.0 CREDIT**

This course builds upon the knowledge gained in Spanish I and II. The course is a continuation and recycling of knowledge acquired in Spanish I and Spanish II, as well as an introduction to new vocabulary, structures, and expressions. Students will be expected to expand their vocabulary range to include more sophisticated terms, use advanced language expressions, verb tenses and grammatical concepts such as the imperfect tense and other advanced concepts. Students will view Spanish language films and read selected Spanish literature.

Prerequisite – Successful completion of Spanish II.

### **531 ADVANCED SPANISH**

**WEIGHT 1.08**

#### **2-DAY CYCLE – FULL YEAR**

**1.0 CREDIT**

This course builds upon the knowledge gained in Spanish I and II. The course is a continuation and recycling of knowledge acquired in Spanish I and Spanish II, as well as an introduction to new vocabulary, structures, and expressions. Students will be expected to expand their vocabulary range to include more sophisticated terms, use advanced language expressions, verb tenses, and grammatical concepts such as the imperfect tense and other advanced grammar concepts. Students will view Spanish language films and read selected Spanish literature excerpts. Students will become better communicators by expanding their repertoire of vocabulary and expressions, and they will link their grammar to practical, everyday situations.

Prerequisite - Successful completion of Spanish II.

### **CYBER FOREIGN LANGUAGE THROUGH EDMENTUM**

**WEIGHT 1.00**

The foreign languages that are offered through Edmentum are German, American Sign Language, French, and Chinese. These classes are strictly online, and students will be scheduled for one full period to complete the online course(s).

## BUSINESS

### **600 COOPERATIVE EDUCATION**

**WEIGHT 1.00**

#### **2-DAY CYCLE – FULL YEAR OR SEMESTER**

**3.0 CREDIT**

Cooperative Education is a program that will allow students to work in the local business community. The student will secure employment and demonstrate skills required for successful performance in the position while receiving credit from school. This program is designed to focus on pursuing career exploration during their senior year. To be accepted into the program, students must demonstrate that they have good work habits and are responsible students by maintaining good grades, attendance, and discipline records during their junior year and throughout their Cooperative Education experience.

Prerequisite – Students must apply for acceptance into the program.

### **618 PRINCIPLES OF BUSINESS**

**WEIGHT 1.00**

#### **2-DAY CYCLE – SEMESTER**

**0.5 CREDIT**

This course will provide instruction in business concepts and the skills students need in today's competitive environment. Business concepts such as Finance, Marketing, Operations, and Management will be covered and skills that will prepare you for the workplace and success in competitive events.

### **620 ACCOUNTING IA**

**WEIGHT 1.04**

#### **2-DAY CYCLE SEMESTER**

**0.5 CREDIT**

Introduces the basic principles and concepts of an accounting system for a service business. Students will learn proper methods and procedures of a complete accounting cycle. Students will analyze and journalize transactions, post, complete a 6-column worksheet, prepare an income statement and balance sheet, and complete end-of-fiscal period work with journal entries.

Prerequisite – Student must be in grade 10 -12. Students in grades 10 and 11 receive an elective credit and students in grade 12 may receive a math credit for this course.

### **621 ACCOUNTING IB**

**WEIGHT 1.04**

#### **2-DAY CYCLE – SEMESTER**

**0.5 CREDIT**

Reviews the complete accounting cycle with additional emphasis placed on accounting concepts and procedures for a merchandising business. Journalizing various business transactions involving purchases, cash payments, sales, and cash receipts will be learned. End-of-fiscal period procedures will be followed to complete a 6-column work sheet, financial statements, adjusting and closing entries. Students will continue to use the automated accounting software program.

Prerequisite – Accounting IA. Student must be in grade 10 -12. Students in grades 10 and 11 receive an elective credit and students in grade 12 may receive a math credit for this course.

### **625 ACCOUNTING IIA**

**WEIGHT 1.08**

#### **2-DAY CYCLE – SEMESTER**

**0.5 CREDIT**

Guides us through the accounting cycle for a corporation and will increase our accounting skills for this business system. Areas to be covered will be the use of special journals (Purchases, Cash Payments, Sales, Cash Receipts); subsidiary ledgers (Accounts Receivable and Accounts Payable); payroll (records, accounts, taxes, reports); uncollectible accounts; plant assets and depreciation; notes and interest; end-of-fiscal period work.

Prerequisite – Accounting IB. Student must be in grade 11 -12. Students in grade 11 receive an elective credit and students in grade 12 may receive a math credit for this course.

### **626 ACCOUNTING IIB**

**WEIGHT 1.08**

#### **2-DAY CYCLE – SEMESTER**

**0.5 CREDIT**

Guides us through the accounting cycle for a corporation and will increase our accounting skills for this business system. Areas to be covered will be the use of special journals (Purchases, Cash Payments, Sales, Cash Receipts); subsidiary ledgers (Accounts Receivable and Accounts Payable); payroll (records, accounts, taxes, reports); uncollectible accounts; plant assets and depreciation; notes and interest; end-of-fiscal period work.

Prerequisite – Accounting IB. Student must be in grade 11 -12. Students in grade 11 receive an elective credit and students in grade 12 may receive a math credit for this course.

### **629 INTRODUCTION TO MARKETING**

**WEIGHT 1.00**

#### **2-DAY CYCLE – SEMESTER**

**0.5 CREDIT**

This course is designed to teach the basics of marketing and apply them directly to a business field. Students will be introduced to advertising, sales, event marketing and communications. Students will also be introduced to career options available in marketing.

**630 Y.E.S. (YOUR EMPLOYABILITY SKILLS)****WEIGHT 1.04****2-DAY CYCLE – FULL YEAR OR****1.0 CREDIT****2-DAY CYCLE – TWICE DAILY – SEMESTER**

The YES program offers coursework that helps students develop the fundamental skills employers require to maintain a well-trained workforce. Topics covered will include interpersonal and non-verbal communication, career path, job search skills, cover letter and resume writing skills, interviewing strategies, listening skills, entrepreneurship, emotional intelligence, substance abuse, sexual harassment in the workplace, time management, problem solving, diversity, leadership and other topics that lead to success in the workplace. Students may earn a YES certificate after successful completion of the YES program and fulfilling additional specific requirements. YES certification is endorsed by many regional employers. Students who earn the YES certificate are considered to be “preferred applicants” by employers throughout Pennsylvania including the Northeast Pennsylvania Manufacturers and Employers Council. Students who successfully complete the Y.E.S. program and earn the Y.E.S. certificate are also eligible for potential scholarship opportunities at PSU Schuylkill and PSU Hazleton.

Prerequisite – Students must be in 11<sup>th</sup> or 12<sup>th</sup> grade.

**652 Personal Finance****WEIGHT 1.04****0.5 CREDIT**

This course is intended to give students background in all aspects of dealing with personal finances. It provides them with the opportunity to learn how to make decisions in many key real-life situations including: home acquisition, budgeting, banking services, investment essentials, understanding taxes and credit management.

Prerequisite – Students must be in 10<sup>th</sup> grade.

## **INDUSTRIAL ARTS**

**706 INTRODUCTION TO WOOD & METAL****WEIGHT 1.00****2-DAY CYCLE – FULL YEAR****1.0 CREDIT**

This course will enable students to learn a variety of basic woodworking skills and basic metal working skills. Students will have three marking periods of basic woodworking where they will build 3 wood projects. At the completion of the third project, students will go into the metal shop classroom where they will learn the basic metal working skills. Skills such as cutting, welding, and grinding to build a table where a wooden top will be placed will be acquired. They will also learn to operate the plasma cutter. **Due to safety considerations enrollment in this class will be limited.**

**715 / 717 / 718 COMPUTER-AIDED DESIGN (CAD) I / II / III / IV****WEIGHT 1.00 / 1.04 / 1.08 / 1.08****2-DAY CYCLE – FULL YEAR****1.0 CREDIT**

Students with interests in construction, engineering, architecture, design (including kitchen and bath design), and other technical areas will benefit from this course. We learn to communicate ideas and details in the design field. Design and draw in 2D and 3D. Emphasis is placed with hands-on experience, using AutoCAD and Inventor. This course will give students the skills needed to understand how a computer and CAD design software is used in the design process. Students will understand basic drafting skills and computer-aided design and develop skills needed to communicate in the manufacturing, architectural and design fields. Drawings and Templates can be saved for students to be included in their portfolio. Subsequent years are independent study preparing students for an AutoCAD credential. This course can be taken 3 years consecutively with project challenges that are more substantial in each ensuing year.

**735 ADVANCED CABINETMAKING****WEIGHT 1.04****2-DAY CYCLE – FULL YEAR****1.0 CREDIT**

Students who have completed Basic Woodworking may continue their experience with more challenging cabinetwork. Students will work independently on larger furniture, usually taking the full year to accomplish. Mastery of several techniques, as well as equipment competency, will be expected. Since individualized instruction is emphasized, this course can be repeated for additional credit. Expected levels of achievement shall be elevated in subsequent years.

Prerequisite – A grade of C or better in Basic Woodwork is required before entering this class. **Due to safety considerations, enrollment for this class will be limited.**

**740 / 741 / 742 ARCHITECTURAL DESIGN I / II / III / IV****WEIGHT 1.00 / 1.04 / 1.08 / 1.08****2-DAY CYCLE – FULL YEAR****1.0 CREDIT**

This course is a study of Architectural Design and Construction. We use Revit Software to document our designs. This course is planned for students interested in **construction trades, engineering, architecture, and design**. We



study residential design and construction, kitchen and bath design and introduce commercial design and construction. Students will learn the fundamental concepts, commands, and techniques for creating and documenting architectural designs and details. This course covers architectural design and drafting, which is the language of industry. Subsequent years are independent study preparing students for an AutoCAD credential. This course can be taken 3 years consecutively with project challenges that are more substantial in each ensuing year.

**750 / 751 / 752 ELECTRONICS – ROBOTICS I / II / III / IV**  
**2-DAY CYCLE – FULL YEAR**

**WEIGHT 1.0 / 1.04 / 1.08 / 1.08**  
**1.0 CREDIT**

Students will learn about the components that make up a robot, such as sensors and servo motors, emphasizing robot construction. Students will develop an understanding of circuits. Students will explore electronic components such as diodes, transformers, rheostats, resistors, microchips, and transistors. Students will learn to use a multimeter to test components and to test for AC and DC volts and amps. Students will learn to develop circuits controlled by multiprocessors for use in the IoT (internet of things) and robots. Students will also gain experience in reading electronic schematics and drawing electronic schematics. This course can be taken 3 years consecutively with project challenges that are more substantial in each ensuing year.

## **PHYSICAL EDUCATION/HEALTH**

**802 PHYSICAL EDUCATION (GRADES 9/10)**  
**1-DAY CYCLE ALL YEAR OR**  
**2-DAY CYCLE – ONE SEMESTER**

**WEIGHT 1.00**  
**0.5 CREDIT**

Physical education for grades 9th and 10th encompasses introductions to individual team sport and fitness activities. Activities such as basketball, track, volleyball, cooperative games, soccer, football, ultimate Frisbee, spike ball and net games will enable students to: Describe and apply concepts of motor skill development that impact the quality of increasingly complex movement; identify and apply practice strategies for skill development; and describe and apply game strategies to complex games and physical activities. Activities such as swimming, personal fitness and weight training will enable students to: Analyze and engage in physical activities that are developmentally/individually appropriate and support achievement of personal fitness and activity goals; analyze the effects of regular participation in moderate to vigorous physical activities in relation to adolescent health improvement; analyze factors that affect the response of body systems during moderate to vigorous activities; analyze factors that affect physical activity preferences of adolescents; analyze factors that impact on the relationship between regular participation in physical activity and motor skill improvement; and describe and apply the components of skill-related fitness to movement performance. **In both 9th and 10th grades, students must take 0.5 credits of physical education.**

**803 / 804 PHYSICAL EDUCATION (GRADES 11/12)**  
**1-DAY CYCLE – SEMESTER**

**WEIGHT 1.00**  
**0.5 CREDIT**

Physical education for grades 11th and 12th continues to build upon the activities introduced in physical education 9th and 10th. Activities such as basketball, soccer, football, running, swimming, lacrosse, badminton, volleyball, weight training, golf, table tennis, spike ball, pickle ball, ultimate Frisbee and fitness activities will be offered to allow the student to: evaluate and engage in activities that support achievement of personal fitness and activity goals and promotes life-long participation; analyze the effects of regular participation in a self-selected program of moderate to rigorous physical activities; evaluate how changes in adult health status may affect the responses of the body systems during moderate to vigorous physical activity; evaluate factors that affect physical activity and exercise preferences of adults; analyze the interrelationships among regular participation in physical activity, motor skill improvement and the selection and engagement in lifetime physical activities; assess and use strategies for enhancing adult group interaction in physical activities; apply knowledge of movement skills, skill-related fitness and movement concepts to identify and evaluate physical activities that promote personal lifelong participation; and analyze the application of game strategies for different categories of physical activities. **In both 11th and 12th grades, students must take 0.5 credits of physical education.**

**805 FITNESS TRAINING**  
**2-DAY CYCLE – SEMESTER**

**WEIGHT 1.00**  
**0.5 CREDIT**

The Fitness Training class elective will be for 9<sup>th</sup>-12<sup>th</sup> grade students. This course's goal is to provide students with a better understanding of muscular strength and endurance, performing exercises correctly, goal setting, workout plans, and weightroom safety. Each person will develop their own personal goals and workout plan. Students will implement their workout plan daily with varying exercises focusing on different muscles and muscle groups. Students may take this course in place of the required (.5) credit of PE (802 or 803/804) each year.

**806 SWIMMING/AQUATICS**  
**2-DAY CYCLE – SEMESTER**

**WEIGHT 1.00**  
**0.5 CREDIT**

The Swimming/Aquatics class elective will be for 9-12th grade students. In this class students will learn about Stroke Fundamentals, Water Safety Topics, Scientific Principles and how they relate to swimming and Water Games, such as Water Polo. The first half of the course will focus on stroke fundamentals and the scientific principles, while the second half of the course will focus on water safety topics and water games. Students may take this course in place of the required (.5) credit of PE (802 or 803/804) each year.

### **807 YOGA**

**WEIGHT 1.00**

#### **2-DAY CYCLE – SEMESTER**

**0.5 CREDIT**

Yoga is a lifetime fitness activity that will help students develop balance, strength, and flexibility. Throughout this course students will learn to combine yoga postures and breathing exercises to strengthen the body, reduce stress, and calm the mind. The course will start by introducing basic yoga poses and gradually incorporate more progressive techniques each day. By the end of the course, students will possess the skills and knowledge needed to maintain a fit and healthy lifestyle through adulthood by sustaining yoga as a part of their daily routine. Students may take this course in place of the required (.5) credit of PE (802 or 803/804) each year.

### **809 Lifelong Fitness**

**WEIGHT 1.00**

#### **2-DAY CYCLE – SEMESTER**

**0.5 CREDIT**

The Lifelong Fitness class elective will be for 9-12th grade students. In this class students will learn about the FITT Principle, Skill Related Components of fitness, Health related components of Fitness and the benefits of lifetime fitness. Different units will focus on activities such as Bowling, Pickleball, Badminton, Golf, Walking for Fitness, Weight Training/ Personal Fitness, Bocce Ball, and Backyard Games.

## **823 THROUGH 826 – 10<sup>TH</sup> GRADE ROTATION**

All 10<sup>th</sup> grade students must take 823, 824, 825, and 826

### **823 Health and First Aid/CPR/AED**

**WEIGHT 1.00**

#### **2-DAY CYCLE – 9 WEEK COURSE**

**0.25 CREDIT**

The Health and Safety course is designed to enable students to develop a better understanding of health topics. Units of study to be included are nutrition, substance abuse, human sexuality, current health issues and stress. One of the goals of this course is to provide students with the knowledge and skills necessary in an emergency to call for help, to help keep someone alive, to reduce pain, and to minimize the consequences of injury or sudden illness until advanced emergency medical help arrives. The content and activities included in this course will prepare participants to recognize emergencies and make appropriate decisions regarding care. This course also includes information on the prevention of injury and illness, with a focus on personal safety. Using healthy lifestyle-awareness questionnaires, students will assess their environment and personal habits to help reduce their risk of injury and risk to others. This course is offered in cooperation with the American Red Cross and its course guidelines. Upon meeting all necessary criteria for American Red Cross course completion, students will receive certification in adult and pediatric first aid/CPR/AED.

### **825 DRIVER EDUCATION**

**WEIGHT 1.00**

#### **2-DAY CYCLE – 9 WEEK COURSE**

**0.25 CREDIT**

The goal of this course is for students to become familiar with the Pennsylvania licensing procedure (Learner's permit and Graduated driver licensing). Students will identify traffic laws related to safe driving and proper application of basic driving skills. Students will evaluate the factors that influence individuals to use alcohol and analyze the problem of driving under the influence. Students will further identify traffic situations and develop avoidance strategies to become safe and competent drivers.

### **826 CONSUMER ECONOMICS**

**WEIGHT 1.00**

#### **2-DAY CYCLE – 9 WEEK COURSE**

**0.25 CREDIT**

This course will help make the student an informed consumer. It will focus on specific consumer issues that the student will encounter during their school years and adult life. These issues such as using credit, banking, savings, income and taxes, investments, insurance, shopping skills, purchasing a vehicle, and renting and furnishing an apartment will be addressed. All 10th grade students must take and successfully complete this course.

## **ART**

Students should note that those planning a career in an art-related field may take more than one art elective a year upon the approval of the art department and administration. Students without approval will be limited to one art credit per year.

**830 INTRODUCTION TO ART  
2-DAY CYCLE – FULL YEAR**

**WEIGHT 1.00  
1.0 CREDIT**

This course is designed as an entry-level high school art class. Students will be introduced to new techniques, media, artists, artwork, and vocabulary related to the art world. It will begin with an introduction to the elements of art and principles of design in which both realistic and abstract projects will be completed. The course will then focus on basic drawing techniques such as composition, perspective, and drawing to scale. Students will explore different media including graphite, charcoal, and pastels. The class will then begin developing more advanced projects and with more in-depth concepts with the study of watercolor paint, acrylic paint, and various painting styles. The final topic of study will be three-dimensional art in which the students will create sculptures, crafts, and ceramic pieces. Students will also gain knowledge of art vocabulary terms, artists, and art movements.

Prerequisite – Grade of a C or better in Foundations in Art 7. Open to grades 9-12.

**835 MIXED MEDIA ART  
2-DAY CYCLE – SEMESTER**

**WEIGHT 1.00  
0.5 CREDIT**

This course will explore a variety of mixed-media art forms and techniques that stem from 2-D design, 3-D design, drawing and painting methods. This course is designed to give students an introduction to using combinations of materials to create art rather than just one medium. Variations of media/projects might include tile mosaics, clay and wood sculptures, folk art, wood burning, yarn work and plaster.

Prerequisite – A grade of C or better in Introduction to Art.

**845 BEGINNING POTTERY  
2-DAY CYCLE – SEMESTER**

**WEIGHT 1.00  
0.5 CREDIT**

Beginning Pottery is an introductory course that studies the history, techniques, aesthetics, products, and the meaning of ceramic arts explored through the ancient processes of hand building. This course will focus on the basic techniques of hand-built pottery and wheel thrown pottery. Hand built pottery projects will include pinch pots, coil pots, and slab pots.

Prerequisite – Grade of a C or better in Introduction to Art.

**846 – ADVANCED POTTERY  
2-DAY CYCLE – SEMESTER**

**WEIGHT 1.04  
0.5 CREDIT**

Advanced Pottery offers the continuing study of the history, techniques, aesthetics, products, and the meanings of the ceramic arts. Students in the Advanced Pottery class will further their knowledge and techniques on the potters' wheel. This course will focus on hand building techniques for functional pottery that would include large vases, bowls, lidded spots/teapots, and footed vessels that also include aspects of form to create aesthetic appeal. Students will also be introduced to using molds to create more symmetrical ceramic artworks.

Prerequisite – Grade of B or better in Beginning Pottery.

**850 SCULPTURE  
2-DAY CYCLE – SEMESTER**

**WEIGHT 1.00  
0.5 CREDIT**

This course is designed to offer students with hands-on experience in three-dimensional design. Topics covered will include exploring form in space through the creation of objective and nonobjective sculptural forms using various materials (wood, wire, clay, plaster, found objects). The student's previous two-dimensional experiences in drawing and painting will be taken to a third dimension.

Prerequisite – A grade of C or better in Introduction to Art.

**851 ADVANCED SCULPTURE  
2-DAY CYCLE – SEMESTER**

**WEIGHT 1.04  
0.5 CREDIT**

This class's purpose is to offer our students a more enhanced experience with sculptural projects. Students will learn to interpret sculptures from various cultures and time periods. Students will pursue advanced work with many various materials including clay, wood, wire and plaster. Students will work more independently and use critical thinking skills to create sculptures through producing solutions to problems presented to them.

Prerequisite – Completion of Sculpture class with a grade of B or better.

**855 BEGINNING DIGITAL PHOTOGRAPHY  
2-DAY CYCLE – SEMESTER**

**WEIGHT 1.00  
0.5 CREDIT**

Beginning Digital Photography is an introductory course designed to train students on how to use standard digital editing software, computer hardware, and equipment including a digital camera. Students also have introductory instruction in design, rules of composition, the history of photography, master photographers and career options in photography. Students will learn skills related to digital camera use, photography techniques, design and layout skills and digital imaging software.

Prerequisite – Grade of C or better in Introduction to Art.

**856 ADVANCED DIGITAL PHOTOGRAPHY****WEIGHT 1.04****2-DAY CYCLE – SEMESTER****0.5 CREDIT**

Advanced Digital Photography is designed for students who are seriously interested in the practical experience of art photography. At the end of the term, students will submit a portfolio for review. In building the portfolio, students experience a variety of concepts, techniques, and approaches designed to help them demonstrate their abilities as well as their versatility with techniques, problem solving, and ideation. The portfolio is developed within a concentration that investigates an idea of personal interest for each individual student.

Prerequisite – Completion of Beginning Digital Photography class with a grade of B or better.

**857 GRAPHICS****WEIGHT 1.00****2-DAY CYCLE – SEMESTER****0.5 CREDIT**

This course will deal with the technical and aesthetic aspects of the graphic artist. Students will create both hand drawn and computer-generated designs. The students will investigate basic design principles and apply them to magazine, flyer, invitation, poster, and business card design. The students will investigate marketing and commercial art problems and develop creative solutions. The students will be introduced to Adobe Photoshop and produce a series of images that troubleshoot design problems. The students will also be introduced to printmaking and develop designs that will be printed using monotype, linoleum block, and screen-printing methods. The students will also work with combining images using collage and image transfer techniques.

Prerequisite – Grade of a C or better in Introduction to Art.

**865 BEGINNING DRAWING****WEIGHT 1.00****2-DAY CYCLE – SEMESTER****0.5 CREDIT**

This course provides an excellent base for all art electives and a great introduction to basic drawing fundamentals. In this class, students will explore a variety of drawing subjects such as still life, landscape, color, and life drawing. The students will explore various media such as graphite, charcoal, and pastel, along with learning about the care and use of drawing tools. Students will also learn to use basic drawing techniques such as perspective, measuring and composition.

Prerequisite – Grade of a C or better in Introduction to Art. Open to grades 10-12.

**866 ADVANCED DRAWING****WEIGHT 1.04****2-DAY CYCLE – SEMESTER****0.5 CREDIT**

This course provides an in-depth exploration of drawing techniques and media. The students will complete larger, more advanced drawings and experiment with various media. Students will use what they have learned in Beginning Drawing and apply that to more complex concepts. Students will be given more challenging subjects such as realistic and abstract representations, advanced still life drawings, and a more in-depth look at life drawing. They will use various media such as pastels, charcoal, crayon, ink, etc.

Prerequisite – Grade of a B or better in Beginning Drawing.

**870 BEGINNING PAINTING****WEIGHT 1.00****2-DAY CYCLE – SEMESTER****0.5 CREDIT**

Beginning Painting is a course designed to provide a solid foundation for painting and other art experiences by exploring color theory and precise application of color. Students will experience the basic uses and structures of design in two-dimensional form through the color wheel and the implementation of various color schemes. Students will use various mediums including watercolor, acrylic and oil paint. Students will be taught about different brushes and their uses along with other painting skills, styles in art history and techniques used by other artists.

Prerequisite – A grade of C or better in Introduction to Art.

**872 PAINTING II****WEIGHT 1.04****2-DAY CYCLE – SEMESTER****0.5 CREDIT**

This course is designed as a course that naturally follows Beginning Painting. This class will emphasize various painting styles, movements, and techniques but has an in-depth focus on conceptual art. Individual artistic styles and skills will be encouraged. All projects will challenge students to personalize and give meaning to their artwork.

Prerequisite – Grade of a B or better in Beginning Painting.

**873 PORTFOLIO PREPARATION****WEIGHT 1.08****2-DAY CYCLE – FULL YEAR****1.0 CREDIT**

Students engage in advanced study of art production, art history, aesthetics, and art criticism, while maintaining the attitude and self-discipline of a working artist. They exhibit technical proficiency and personal style while working in advanced media. They curate art exhibitions of their own work, using professional exhibition techniques. Emphasis is placed on career opportunities. An exit portfolio giving evidence of quality, concentration, and extent of experience is required. A presentation portfolio showing the student's highest level of achievement is selected from the exit portfolio.

Prerequisite – Grade of B or better in Introduction to Art, Beginning Drawing, and Beginning Painting. Open to Grades 11-12.

**875 YEARBOOK DESIGN**

**WEIGHT 1.04**

**1-DAY CYCLE – FULL YEAR**

**0.5 CREDIT**

In this course students will gain skills in one or more of the following areas: page design, advanced publishing techniques, copy writing, editing and photography while producing a creative, innovative yearbook which records school memories and events.

Prerequisite – Students must be in the Yearbook Club and in grades 10-12.

## **MUSIC**

**ALL SENIOR HIGH STUDENTS IN CHORUS MUST BE ENROLLED IN 885, 886, 887 OR 890**

**885 SENIOR HIGH CHORUS LEVEL I**

**WEIGHT 1.00**

**1-DAY CYCLE – FULL YEAR**

**0.5 CREDIT**

This course will provide students who enjoy singing the opportunity to perform with and for others. Students in grades 9-12 are eligible to take this course and will share in experiences relating to: learning and developing proper vocal techniques; becoming familiar with and performing various music styles; and broadening one's vocal range. It is not necessary to audition to take this class. As this is a performance-based class, performances are mandatory, and your grade will be adversely affected if you miss a performance without a doctor's medical excuse.

**886 SENIOR HIGH CHORUS LEVEL II**

**WEIGHT 1.04**

**1-DAY CYCLE – FULL YEAR**

**0.5 CREDIT**

This course will provide students who enjoy singing the opportunity to perform with and for others. Students in grades 10-12 are eligible to take this course and will share in experiences relating to: learning and developing proper vocal techniques; becoming familiar with the performing various music styles; and broadening one's vocal range. As this is a performance-based class, performances are mandatory, and your grade will be adversely affected if you miss a performance without a doctor's medical excuse. These spot-checks will count toward your grade. Students will go more in depth and expand upon what is taught in Level I.

Prerequisite – You must complete Chorus Level I with a passing grade.

**887 SENIOR HIGH CHORUS LEVEL III**

**WEIGHT 1.08**

**1-DAY CYCLE – FULL YEAR**

**0.5 CREDIT**

This course will provide students who enjoy singing the opportunity to perform with and for others. Students in grades 11-12 are eligible to take this course and will share in experiences relating to: learning and developing proper vocal techniques; becoming familiar with and performing various music styles; and broadening their vocal range. Performances are mandatory and your grade will be adversely affected if you miss a performance without a doctor's medical excuse. Students will expand upon what is taught in Level II. You will be preparing choreography for your performances.

Prerequisite – You must complete Chorus Level II with a passing grade.

**890 SENIOR HIGH CHORUS LEVEL IV**

**WEIGHT 1.08**

**1-DAY CYCLE – FULL YEAR**

**0.5 CREDIT**

This course will provide students who enjoy singing the opportunity to perform with and for others. Students in grade 12 are eligible to take this course and will share in experiences relating to: learning and developing proper vocal techniques; becoming familiar with and performing various music styles; and broadening their vocal range. Performances are mandatory and your grade will be adversely affected if you miss a performance without a doctor's medical excuse. Students will expand upon what is taught in Level III. You will be preparing choreography for your performances.

Prerequisite – You must complete Chorus Level III with a passing grade.

**ALL SENIOR HIGH STUDENTS IN BAND SHOULD BE ENROLLED IN 891, 892, OR 893**

**891 / 892 / 893 / 896 WIND ENSEMBLE I / II / III/ IV**

**WEIGHT 1.00 / 1.04 / 1.08 / 1.08**

**1-DAY CYCLE – FULL YEAR**

**0.5 CREDIT**

This course will provide senior high students the opportunity to perform wind band literature and learn the fundamentals of music performance at a higher level than Symphonic Band. This course will be fast paced, and the musical requirements will be concert literature at a Grade 4+. Students in this group will be expected to audition for county district band festivals. Students must receive approval from the instructor to enroll in this course. Students must also participate in Fall Marching Band.

Prerequisite – Student must have completed Jr. High Band.

**900 INTRODUCTION TO MUSIC THEORY****WEIGHT 1.04****2-DAY CYCLE – SEMESTER****0.5 CREDIT**

This elective course is intended for high school students interested in the structure and foundations of music. Topics covered include; understanding music notation, the Western tonality system and its origins, rhythm and eurhythmics, ear training, and musical form. Students will explore the content through various instruction vehicles including group activities, dictation, compositions, and other projects.

**905 ADVANCED MUSIC THEORY****WEIGHT 1.08****2-DAY CYCLE – SEMESTER****0.5 CREDIT**

This course is a more in-depth exploration of music's structure and foundations. A greater emphasis in ear training, sight singing with Solfeggio and Kodaly methods, and composition is intended to prepare students for careers and college studies in music.

**910 MUSIC HISTORY****WEIGHT 1.00****2-DAY CYCLE – SEMESTER****0.5 CREDIT**

The course will cover the history of music from the beginning of time through such periods as the per-renaissance, renaissance, baroque, classical, romantic, post-romantic, and twentieth century. Palestrina, Bach, Handel, Haydn, Mozart, Beethoven, Schubert, Copeland, and Gershwin are a few of the composers whose lives and/or work will be covered.

**912 GUITAR****WEIGHT 1.00****2-DAY CYCLE – SEMESTER****0.5 CREDIT**

This course will begin with an introduction to music theory including time signatures, notation, and composition basics. After successful completion of a theory quiz and guitar history quiz, the class will begin playing guitar. Performance skills such as single string playing, notation reading, tab reading, strumming, and learning chords will be introduced. This course is for any student for beginning to advance as you will move at your own pace. There will be performance exams and written exams. This course will be capped at a certain number.

**913 GUITAR II****WEIGHT 1.04****2-DAY CYCLE – SEMESTER****0.5 CREDIT**

This course picks up from where students left off in Guitar 1. Students will review basic major and 7th chords. Students will learn multiple positions on the neck of the guitar, use of multiple strings and playing multiple styles and genres of music. There will be a focus on reading standard music notation and learning by rote. Tab reading will be limited. Students will play solo, duet, and ensemble pieces throughout the semester. There will be performance exams. This course will be capped at a certain number.

Prerequisite – B average or above in Guitar 1.

**916 MUSIC TECHNOLOGY****WEIGHT 1.00****2-DAY CYCLE – SEMESTER COURSE****0.5 CREDIT**

Have you ever wondered what is involved with recording an album, editing audio for the radio, or writing the film score for a movie? Music Technology is a course that uses the iPad as its main tool to understand the recording, composition, and notation of many musical styles. Topics include basic use of multi-track mixing and sequencing software, and microphone and mixing board use. Students will learn by doing, creating their own music compositions, film soundtracks, and podcasts.

**917 HISTORY OF JAZZ****WEIGHT 1.00****2-DAY CYCLE – SEMESTER COURSE****0.5 CREDIT**

Ragtime, Dixieland, Be-bop and more will be used to familiarize the students with the jazz greats. While students are learning the history of the famous jazz artists, they will also be developing their ability to improvise jazz techniques. This class is eligible for students in grades 9-12.

**918 INTRODUCTION TO MODERN AMERICAN POPULAR MUSIC****WEIGH 1.00****2-DAY CYCLE – SEMESTER COURSE****0.5 CREDIT**

This course is open to any student who enjoys popular American music. Students will study modern American popular music using two approaches. Students will be listening to and discussing American popular music since 1950. The important social, political, and cultural elements of popular music will be studied as well. This class is eligible for all students in grades 9-12

## **FAMILY AND CONSUMER SCIENCES**

**390 TEEN LIVING****WEIGHT 1.00**

**2-DAY CYCLE – FULL YEAR****1.0 CREDIT**

This course addresses issues of adolescents and their new roles involving family, school and community. The emphasis is on understanding the responsibilities of childcare, positive relationships, interpersonal skills, basic nutrition, consumer management and advanced sewing skills.

Prerequisite – Student must be in grade 9 or 10 to schedule this class.

**945 FOODS FOR FITNESS****WEIGHT 1.04****2-DAY CYCLE – FULL YEAR****1.0 CREDIT**

This class will focus on the six main nutrients and their effects on the body, as well as proper nutrition for an active lifestyle. Students will develop and enhance their basic cooking skills in consideration of nutrition, cost, safety, and sanitation.

Prerequisite – Student must be in grades 10, 11, or 12.

**950 CREATIVE FOODS****WEIGHT 1.00****2-DAY CYCLE – SEMESTER COURSE****0.5 CREDIT**

This course will enhance basic cooking skills. The course emphasizes fundamentals of preparing, cooking, and serving food with consideration for nutrition, cost, safety, sanitation and using small kitchen equipment wisely to prepare meals for today's families.

Prerequisite – Student must be in grades 10, 11, or 12.

**955 WORLD OF FOODS****WEIGHT 1.00****2-DAY CYCLE – SEMESTER COURSE****0.5 CREDIT**

This course is designed to explore international cuisine, regional cooking and advanced food preparation techniques. Students will also be able to learn and implement more advanced skills and experiment with a variety of different kitchen equipment. Students will continue to practice the basics of food preparation including food safety, basic nutrition and measuring skills.

Prerequisite – Students must be in grades 10, 11, or 12.

**960 Fire Science****WEIGHT 1.00****2-DAY CYCLE – SEMESTER COURSE****0.5 CREDIT**

The course introduces students to the essentials of firefighting. Topics include Introduction to the Fire Service (ELIS), Fireground Support (ELGF), Exterior Firefighter, and Hazmat Awareness/Operations. This is a hybrid course which requires daily attendance on North Schuylkill campus as well as occasional weekend attendance at Schuylkill County Training Academy (SCTA) in Frackville.

Prerequisites: Must be 16 years old on/before the first day of class. Must belong to a volunteer fire company that will provide you with turn-out gear (TOG). Must maintain C average in all other courses.

## **ACADEMIC PREP**

**SH200 ACADEMIC PREP**

Academic Prep will provide a quiet environment that will allow students to complete homework, increase study time or receive tutoring. Students are encouraged to schedule a .5 Academic Prep but can opt to schedule up to a 1.0 Academic Prep.