

**STROUDSBURG HIGH SCHOOL**  
**STROUDSBURG JUNIOR HIGH SCHOOL**



*Program of Studies*

ACADEMIC YEAR **2016 - 2017**

# Program Of Studies

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### A MESSAGE FROM STROUDSBURG HIGH SCHOOL AND JUNIOR HIGH SCHOOL'S GUIDANCE DEPARTMENT AND ADMINISTRATION

Dear Students,

This "Program of Studies and Educational Planning Guide" was designed to assist you in choosing your courses of study for the years you will spend at Stroudsburg High School. The course of study that you pursue in high school will greatly impact your personal development, vocational future, and educational opportunities. Although you have many months of hard work in your present grade ahead of you, decisions about next year's program must be made at this time.

How wisely you choose your subjects will strongly influence your possibility of academic success, not only in high school but also in later life. You should seriously consider your own academic capabilities using your previous school record to guide you. Seek the recommendations of your parents and teachers, and the advice of the high school counselors. In making these decisions, you should ask yourself the following questions: (1) Have I succeeded in establishing good study habits? (2) What quality of work have I done thus far? (3) Am I capable of meeting the academic demands? These and other factors must have your most thoughtful consideration when choosing your courses.

The curricular offerings at Stroudsburg High School have been designed to provide a strong core of skills, enhanced by electives directed toward personal interests and career goals. Your goal should be to prepare yourself for post-secondary experiences, whether it be furthering your education or as a member of the work force. Reaching this goal is determined to a large extent by your personal commitment to excellence, within a well planned curricular program which is realistic as well as challenging.

The counselors and faculty are ready to assist you in making decisions about how your high school career will proceed. It is very wise to consider course selections over a four-year period of time with consideration to educational and career pathways. Your high school courses will prepare you for your next step in education or the world of work, therefore, carefully consider the courses you choose.

Your counselor will help you in the course selection process and assist you in making the best choices. Please call us if you have any questions.

Sincerely,

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**District Website: [www.sburg.org](http://www.sburg.org)**

The Stroudsburg Area School District  
Equal Opportunity (Nondiscrimination) Policy

The Stroudsburg Area School District is an equal opportunity education institution and will not discriminate on the basis of race, color, gender, national origin, and handicap in its activities, programs or employment practices as required by Title VI, VII, and IX, and Section 504.

For information regarding civil rights, or grievance procedures, contact Stephen Brodmerkel, Assistant Superintendent, 503/504 Title IX - Title VI Coordinator, at 123 Linden Street, Stroudsburg, PA 18360. Phone: (570) 421-1990.

For information regarding services, activities and facilities that are accessible to and usable by handicapped persons, contact Stephen Brodmerkel, Assistant Superintendent at (570) 421-1990.

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# Graduation Requirements

The State Board of Education establishes requirements for all school districts. Graduation requirements include course completion and grades, completion of a culminating project, and results of assessments aligned with the academic standards. Progress toward the standards is measured through a state assessment called the Keystone Exams. Students must demonstrate their ability to meet or exceed the academic standards in all assessed areas. The Stroudsburg Area School District uses its own assessment system as well as the Keystone Exams to measure students' proficiency.

It should be understood that these are the minimal requirements for graduation; however, students are encouraged to take as many courses as they can schedule. It is policy that students must carry a minimum of 6.5 credits each year.

Failure in a required course necessitates retaking the course the following school year. No student may take part in graduation unless all requirements are met. Courses must also be taken in the grade-level sequence noted in this Program of Studies. Doubling up of courses due to failure will be considered when prior arrangements are made by contacting the student's assigned school counselor.

Beginning with the graduating class of 2019 and beyond, current Chapter 4 regulations require students to score at a proficient or above level on state delivered Keystone Exams in the areas of English Literature, Algebra 1 and Biology.

Grade level will be determined by the students' accumulated number of credits in the required academic area.

Stroudsburg Area School District requires that every student obtain a minimum of 23.25 units of credit in the following areas in grades nine through twelve.

<b>Graduation Requirements:</b>	<b>Credit Requirement</b>
English	4 credits
Social Studies	3 credits
Mathematics	4 credits
Science	4 credits**
Arts/Humanities	2 credits
Phys. Ed./Health	1.25 credits
Survey of Ecology/Engineering Tech.	0.5 credit*
Career Planning/This is Your Life	0.5 credit
Electives	4 credits
Total	23.25 credits

## **Technical School graduation requirements:**

English	4 credits
Social Studies	3 credits
Mathematics	4 credits
Science	3 credits**
Arts/Humanities	2 credits
Phys.Ed./Health	1.25 credits
Survey of Ecology/Engineering Tech.	0.5 credit*
Career Planning/This is Your Life	0.5 credit
Electives	5 credits
Total	23.25 credits***

\*These two quarter credit electives may be replaced by electives when the standards are already embedded in course content.

\*\* All students must take Biology and Chemistry.

\*\*\*If participation in the Technical School was for three (3) years, otherwise utilize above requirements.

# Keystone Exam Proficiency & Graduation Requirements

## **KEYSTONE EXAMS**

Improving academic performance for all children is an essential part of Pennsylvania's educational system. The Commonwealth of Pennsylvania established academic standards that define what students should know and be able to do at specific grade levels. Standards provide a framework and learning targets for students, teachers, and parents. Progress toward the Standards is measured through a state assessment called the Keystone Exams. Students must demonstrate their ability to meet or exceed the academic standards at a proficient or advanced level. The Stroudsburg Area School District uses its own assessment system as well as the Keystone Exams to measure students' proficiency.

Keystone Exams will be administered after the completion of the Keystone related course.

In addition to earning 23.25 credits, students must demonstrate proficiency on the Keystone Exams in order to qualify for a high school diploma as previously defined under Graduation Requirements.

Beginning with the graduating class of 2019, any student who scores below proficient on any of the Keystone Exams is required to participate in remediation prior to retaking the exam. After two non-proficient scores, the student must complete a Pennsylvania Department of Education-issued project online. (Exceptions may exist for students with IEPs.)

If the above criteria is not met, other graduation considerations (dependent upon state approval) may include:

- Passing grades on NOCTI (both theory and performance tests) for vocational-technical or regular education program completer students in state approved educational programs.
- Successful completion of academic IEP goals and objectives by students with disabilities.

The Pennsylvania Department of Education website, [www.education.state.pa.us](http://www.education.state.pa.us) has helpful links on standards, the Keystone Exams, and other school-related topics.

## **Humanities Graduation Requirement**

Courses taught by the following departments fulfill the 2.0 humanities credits required for graduation except as noted.

### **Art Department**

All courses

### **English Department**

All elective courses

### **Family & Consumer Sciences Department**

All courses

### **Music Department**

All courses

### **Social Studies Department**

All elective courses

### **Technology Department**

All courses

### **World Language Department**

All courses

## Scheduling Instructions

The selection of courses is viewed as a commitment or “contract” between the student and the high school. Counselors and administrators will do everything possible to schedule students to the courses they have selected, but the master schedule construction may dictate alternate course selections. Several factors will restrict what can actually be offered in next year’s schedule, for example: teacher availability, facility availability, schedule conflicts, class size and student interest. Students are expected to complete all courses selected and assigned.

The selection of courses and areas of concentration should be a joint effort involving the student, the parents/guardians, and the school staff. Students need to consider very carefully what courses and what curricular levels they are choosing. The student’s classroom teacher will be required to make course recommendations for the following year. This helps to ensure proper placement in courses most suited to the student’s interests and abilities. An individual counseling session will be scheduled for every high school student. This will give each student an opportunity to speak privately with his or her counselor about selecting appropriate courses for career and college planning and to discuss their individual ability level as it relates to course difficulty.

All present students, except graduating seniors, will be issued a “Program of Studies.” Incoming freshmen, sophomores, and juniors, along with their parents, will complete their elective course scheduling requests via the Parent Web Portal. A course verification form will be sent home. It is important that the student and parents/guardians review the course requests together before the student meets with his/her school counselor.

Students should plan their programs so that they are not only fulfilling minimum requirements, but also are taking full advantage of the many elective courses offered in the various departments.

The following criteria must be kept in mind when making course selections for next year:

- All students must schedule at least 6.5 credits, not to exceed 8.
- Students are also strongly encouraged to sign up for more courses to broaden their learning experiences.

The school determines student placement in courses on the basis of test score(s), previous grades, and principal, teacher, and counselor recommendations. Remediation in reading/literature and/or mathematics and/or biology will be required for students who have not scored at the proficient level on the state assessments (PSSA/Keystone Exams).

The burden of responsibility falls on the student in completing all the necessary forms and returning any paperwork with required signatures.

The “Program of Studies” booklet describes all courses contained in the Stroudsburg High School/Stroudsburg Junior High School Program of Studies. However, not all courses may be offered during a school term. The school reserves the right to postpone or cancel courses. Every attempt will be made to give students the courses they select, or if necessary, the alternate courses designated. The “Program of Studies” should be kept and referred to as needed. If there are any concerns or comments about its content, please contact the high school or junior high school offices.

***\* Both regular education and special education classes are available to students with disabilities. Small group learning support and emotional support classes are available in each of the core academic areas; however, placement in these classes is made only through the IEP process.***

## On-line Instructions for Scheduling Electives

Student Scheduling on the Parent Portal will be open for a specified period during March and April. In order to complete the course selection process successfully, please have the following information in front of you at the computer as you begin:

- A copy of the third marking period progress report or report card. These contain your username (child’s ID), password, and PIN # needed to access the Web Portal
- The step-by-step instructions listed below. Consult this guide for complete course descriptions.

### Web Portal Instructions

- Connect to the Internet and locate the District Web Page @ [www.sburg.org](http://www.sburg.org).
- On the right-hand side of the screen click the blue “Sapphire” icon.
- Enter your username (child’s ID), password, and PIN # in the appropriate section and log-in. (Found on your child’s third marking period progress report or their report card). Or, you may use your personal parent account information.
- Your name will appear at the top of the screen. Be sure it is correct.
- Locate the child you will be scheduling and click on that student.
- Click on course request tab.
- Follow the balance of directions on screen.

## Policy on Program Changes

### Course Selection Changes

A program selected after careful study and consultation between student, parents/guardians, teachers, and counselors should require no major change. The “Course Selection” form is a contract between the student and the school. The school will attempt to guarantee that students will get the courses they select.

Students who wish to initiate a change in their original course requests are urged to do so prior to the end of the current school year.

### Schedule Changes - Course Additions, Transfers, Deletions

A student may change his or her chosen schedule of courses by counselor availability during the summer. Changes to schedules after the school year begins are subject to availability and other criteria outlined in the Student Handbook.

**A student may not drop a class to take a study hall.**

## Course Level Waivers

Recommendations for Honors, Advanced Placement, College Prep, Core and Workshop level classes are made based on teacher recommendations, grades and standardized test scores (CDTs, PSSA, etc.). Parents of students not recommended for a particular level may choose to sign a Course Waiver. A Waiver Form must be requested from the school counselor in order to obtain a change in the level of a course not recommended by the department. The school’s course-drop policy expects that the student remains in the class(es) chosen until completed. However, should it be determined that it is in the best interest of the student to drop the course, the student will meet with his/her assigned school counselor to request a schedule change. No course may be dropped for a study hall, and all requested changes will be dependent upon the newly selected course availability and principal’s approval. No change in the schedule will be considered until the parent has received the first progress report for the course(s). If the student receives permission through the guidance office to drop the class, he/she will receive a failing grade, which will be recorded on the report card and transcript as WF (Withdraw Fail). Exceptions to this WF rule may be appealed directly to the building principal. Any Waivers

submitted to the guidance office within the scheduling window (see due date on the Waiver Form) will be admitted to the class. Those submitted past the due date are subject to course availability.

## Concurrent Enrollment

Students in their senior year wishing to pursue college courses while enrolled in high school must complete an application requesting permission. The applications are available in the guidance office. Students are required to submit a letter from their parents indicating their support, approval, and understanding of the costs involved including transportation and tuition at the time of application. The request must be approved by the principal. The school district will not be responsible for any costs involved in this pursuit. Students can earn up to a total of eight (8) credits per school year. All courses taken at the high school will receive credit as outlined in the student handbook. Students requesting to take college courses must exhaust the academic offerings of the high school and no substitutions for required courses can be made. College courses do not count as credit towards GPA and class rank. One high school elective credit will be granted for each three-credit college course successfully completed. Any additional courses taken at the college level may be attached to transcripts. It is the responsibility of the student to make sure an official transcript from the college is issued to the high school.

## Early Graduation Compressed Scheduling

With administrative approval, students may request early graduation/compressed scheduling under the following conditions:

- Students must meet all graduation requirements as set forth in the Stroudsburg High School Program of Studies.
- The scheduling is contingent upon course availability. Independent study may not be substituted for a required course.
- The student's Class Rank will be frozen as of the conclusion of the Sophomore year. (Note: for purposes of college admissions, this means that class rank will be represented to the college as it existed at the end of the sophomore year with a notation attached to the high school transcript indicating why that condition exists.)
- It is understood by the student and the Board that the student will not be eligible to be the Valedictorian or Salutatorian.

## Academic Programs

### Advanced Placement Program

The Advanced Placement (AP) is an internationally recognized program of specific courses and curriculum sponsored through The College Board. These college-level courses prepare students to take the Advanced Placement Exams which can lead to advanced standing in college and college credit. The AP Program gives students a chance to experience college-level work in high school and gain valuable study habits. An AP course enables students to study a subject in greater depth, and demonstrates a student's academic maturity and readiness for college. Students should expect additional daily reading and/or practice assignments with all AP level courses. SHS offers many demanding AP courses in English, Social Studies, Mathematics, Science, Music and Art, and are primarily offered to juniors and seniors. Students enrolled in AP designated courses will receive additional weighting used for the purpose of Class Rank only.

For additional information on the Advanced Placement Program, visit the following College Board site:

<http://www.collegeboard.com/student/testing/ap/about.html>

### Honors Program

The Honors Program (H) is a program designed to prepare students to continue their education after high school. Students are encouraged to motivate themselves to excellence through intensive study by demonstrating exceptional critical-thinking and problem-solving skills. The Honors courses require more independent learning and include more long-term assignments. Class participation and grading expectations are higher. This is accomplished with a well planned and appropriate curricular program which is realistic as well as challenging. Students enrolled in Honors designated courses will receive additional weighting used for the purpose of Class Rank only.

### College Preparatory (College Prep)

The College Preparatory Program (CP) is a program designed to prepare students who will continue their education after high school at a college or university. Students are encouraged to motivate themselves to excellence through intensive study by demonstrating exceptional critical-thinking and problem-solving skills. This is accomplished with a well-planned and appropriate curricular program which is realistic as well as challenging.

### Core

The Core curriculum program is designed to put curriculum and theory into practice. The emphasis is placed upon the skills needed to function in an increasingly complex world. Typically, this program is designed to prepare students to enter a vocational school, community college, two-year college, or the workplace directly out of high school.

### Workshop

The Workshop Program is designed for students to meet success in their curricular offerings. It is provided with modified course work to meet graduation requirements.

**All students are required to demonstrate proficiency in state-developed Keystone Exams in order to meet graduation requirements regardless of academic program as prescribed by the Pennsylvania Department of Education.**

## Library Services

The high school library collection supports our curriculum by providing both print and online resources. With access to over 15,000 books in the print collection and another 12,000 full-text e-books online, students have a full range of reference, nonfiction, and fiction books to use for research and personal reading. The library also subscribes to several online databases which have been chosen to enhance class content. Students may access the collection at home by clicking on SASD Links on the district home page, or through the library wiki at [stroudsburchslibrary.wikispaces.com/](http://stroudsburchslibrary.wikispaces.com/)

## NCAA Student-Athlete Eligibility

Students seeking to participate in college level athletics must meet academic eligibility requirements established by the National Collegiate Athletic Association (NCAA). Because recent changes have been implemented for Divisions I and II colleges & universities, it is important for student-athletes to be aware of the classes they choose to fulfill eligibility requirements. As a student-athlete, the NCAA and college admission professionals expect students to compare their course selections and high school transcript to the NCAA requirements. A worksheet to assist parents and students with eligibility requirements is available on the NCAA web site: [www.ncaa.org](http://www.ncaa.org). This site also includes the link to register with the NCAA in the student's junior year of high school.

This Program of Study indicates which SASD core courses count towards NCAA eligibility at the time this document went to print. However, the NCAA retains the right to make changes to the approved list at any time without advanced notification. The courses that may count toward NCAA eligibility are noted in the course title as (NCAA).

## Co-curricular Athletics & Activities

Students at Stroudsburg Area school district are given the opportunity to participate in a broad range of co-curricular activities. These are designed to foster personal development and enrich their high school experience. Athletics and activities are an extension of the educational program at Stroudsburg High School. Students learn important lessons such as good sportsmanship, teamwork, time management, and the establishment of a work ethic. Athletics and activities also help the students to build self-esteem, self-discipline and responsibility helping to foster success after graduation. Research has shown that students who are involved in co-curricular activities tend to have higher grades, less discipline problems and better attendance than non-participating students. Stroudsburg High School strongly encourages students to become involved in one or more of the many offerings that we have in athletics and activities. The following clubs and organizations are available.

### Sports Offered

Fall	Winter	Spring
Cheerleading	Boys Basketball	Baseball
Boys' Cross Country	Girls' Basketball	Girls' Soccer
Girls' Cross Country	Cheerleading	Softball
Field Hockey	Boys' Swimming	Boys' Tennis
Football	Girls' Swimming	Boys' Track & Field
Golf	Wrestling	Girls' Track & Field
Boys Soccer	Rifle	
Girls' Tennis		
Girls' Volleyball		

### Activities & Organizations Offered:

High School	Junior High School
Art Club	Basketball Scorer - Boys'
Band	Basketball Scorer - Girls'
Bowling Club	Builders' Club / Community Serv. Club
Chamber Orchestra	Competitive Swim 8/9
Chess Team	Cross Country 8/9
Chorale	Step Team
Debate Team	FBLA
Drama Club	Freshman Class
Drill Team	Jazz/Marching Band
Environmental Conservation Club	Model UN / Model Congress J.H.
FBLA	Musical 8/9
Hiking Club	Science Olympiad
Jazz Band	Show Choir
Junior Class	Ski Club
Math Club	Spelling Bee - 8/9
Mock Trial	Stock Market Club
Model UN / Model Congress	Strings (Chamber Orchestra)
National Honor Society	Student Council
Parallels	Technology Student Association
Percussion Ensemble	Track & Field 8/9
Photography Club	Unity / Diversity Club
Presidential Classroom	Volleyball 8/9
SADD	Weightlifting 8/9

Scholastic Scrimmage	Chess Club
School Musical	Yearbook 8/9
School Newspaper	Newspaper
Science Olympiad	SADD
Senior Class	PA Jr. Academy of Science (Adv)
Show Choir	Drama Club
Ski Club	Crafts Club
Sophomore Class	Mountie Arts Council (Spirit)
Spelling Bee	Drill Team
Sports Club	
Student Council	
Technology Student Association	
Wallyball	
Winter Color Guard	
Yearbook	
Best Buddies	
Diversity GSA	
Girls Varsity S	
Key Club	

## Monroe Career & Technical Institute

Students enrolled at Stroudsburg High School have the opportunity to attend Monroe Career & Technical Institute. Participation in the all day ninth grade comprehensive program requires a recommendation from the eighth grade school Counselor. Students in grades ten through twelve are eligible to apply to the career or technical program of their choice. Program descriptions can be found at the back of this Program of Studies.

The application process will usually include:

- A presentation for all ninth graders by the Monroe Career & Technical Institute
- The opportunity to attend a Career Exploration Night at the Monroe Career & Technical Institute with your parent(s).
- A tour of the Monroe Career & Technical Institute for interested students.
- A completed application returned to the High School Guidance Office with parental signature

### NOTE:

Every effort will be made to place a student in their first choice program area, however, placement is not guaranteed and is competitive based on:

- student grades
- attendance history
- the number of program openings which are determined on a program to program basis. Programs may have limited seats available due to a high demand from all attending Monroe County schools.

Students who attend Monroe Career & Technical Institute will select a program in which they spend two and one-half hours per day at the career & technical school for the entire school year. The counselor will schedule this half-day program. The remainder of the school day, a minimum, of four periods, will be spent at the high school. Successful completion of a vocational technical program earns a student up to 4.0 credits per year. Additional courses taken fulfill both the required course and credit requirements necessary for graduation.

Before the start of the tenth grade a student must have completed courses in ninth grade English, math, social studies, science and physical education in order to attend MCTI as a sophomore. If a student expects to graduate on-time and complete a three year program at the MCTI it is recommended that they have completed 6.0 credits in 9th grade.

# Career Cruising

The Stroudsburg Area School District has implemented the Career Cruising Portfolio System beginning at the Junior High School. It is first introduced to students during Career Awareness class in 8th grade, and again during This is your Life! in 9th grade. It is a program that both you and your student can use to benefit from throughout high school. It should be used every year to assist in career development, and to focus on improved career exploration. It can help create career and education plans for high school and beyond as well as aid in resume development. This program will help to better serve you in choosing a career and understand what is required to meet success. Once you complete the Career Matchmaker, which is a career assessment tool, the options are endless. There are career descriptions, career video clips, salaries, required education and links to every college in the US. This program is a portfolio tool that has one goal in mind: to help you plan your future. Once you receive your username and password in 8th grade it can be used throughout your high school career. If you do not have a password, follow the directions below to gain access to the website.

## If you have been given a username and password use these directions:

- Go to [www.careercruising.com](http://www.careercruising.com)
- Type in the username (student ID#)
- Type in the password (user password)
- Click on login to start Career Cruising.
- Experiment, look around, see what Career Cruising can offer you.

## If you have not been given a username and password use these directions:

- Go to [www.careercruising.com](http://www.careercruising.com)
- Type in the username stroudsburg
- Type in the password mounties
- Click login to start Career Cruising.

The knowledge and skills needed to enter college or find a well-paying job have changed from ten or twenty years ago. Today, high school students need similar skills whether they want to enter college or the workplace. Being unprepared can result in additional college costs for you and your child, and may discourage your child from getting the education and career she or he needs and wants.

The Stroudsburg Area School District is committed to preparing students for success in the post-secondary endeavor of their choice. For some, this will be a 4-year college. For others, it may be a community college, apprenticeship, certification, military training or entry into the workforce. Our district offers a rigorous and relevant curriculum designed to develop students' strengths and to provide a broad base of knowledge and skills that will enable students to be successful in tomorrow's global society. The Career Pathways Planner contains information about our career Pathways model in addition to the Course Selection Guide for the upcoming school year. All of this information is designed to help students and their families make good decisions about life after graduation from high school. To parents, we encourage you to take an active role in developing your son or daughter's career plans as we strive to create opportunities for each student to experience meaningful career related opportunities during their high school years.

## PATHWAYS TO EXCELLENCE

Connecting Careers & Curriculum for Future Success

Each Pathway is a broad grouping of careers that shares similar characteristics with employment requirements that call for many common interests, strengths and competencies. A chosen Pathway can help focus a student's elective courses toward preparing for a specific goal area.

There are 16 nationally recognized Career Pathways. The Stroudsburg Area School District has made recommendations for the 9th through 12th grade electives that lead to each pathway. In cases where related pathways share the same elective recommendations, more than one pathway is listed in the title bar. One Pathway, Agriculture, Food & Natural Resources, is not included with a list of recommended electives. The electives for this Pathway must be pursued through post high school options such as college or on-the-job training (OJT).

# College Entrance Exams

It is recommended that students wishing to take the SAT or ACT do so in the spring of their junior year. Students are encouraged to register for these exams on-line. Stroudsburg High School is not an approved test site for either exam.

For the SAT, go to [www.collegeboard.com/sat-register](http://www.collegeboard.com/sat-register)

For the ACT go to [www.actstudent.org](http://www.actstudent.org)

The Stroudsburg High School code for both exams and all college applications is:

**394715**

Every October, Stroudsburg High School encourages sophomores and juniors to take the PSAT (practice SAT). SHS is an approved site for the PSAT only. This exam is offered one time per year only. Registration is completed in person in the HS guidance office.

# Career Pathways

As students, parents and educators, we want all graduates to be able to enter college or the workforce with the knowledge and skills needed to be successful. Preparing students to take his or her place in the world has become very challenging.



# 16 Career Pathways:

Agriculture, Food & Natural Resources  
 Architecture & Construction  
 Arts, A/V Technology & Communications  
 Business Management & Administration  
 Education & Training  
 Finance  
 Government & Public Administration  
 Health Science  
 Hospitality & Tourism  
 Human Services  
 Information Technology  
 Law, Public Safety, Corrections & Security  
 Manufacturing  
 Marketing  
 Science, Technology, Engineering & Math  
 Transportation, Distribution & Logistics

## ARTS, A/V TECHNOLOGY & COMMUNICATIONS PATHWAY

This Pathway is designed to cultivate students' awareness, interpretation, application and production of visual, verbal and written work.

Are you interested in...	Can you...	Do you enjoy...
News Reporting and Writing Interviewing and Reviewing Multi-Media Productions Acting Radio, TV, Film, Video Performing in a Band, Chorus Attending Concerts	Sing Play an Instrument Be Creative Act Articulate Clearly Write and Conduct Interviews Meet Deadlines Sell	Writing Making Videos Working with Film Props Seeking Creative Ideas Working with Sound Effects Performing in front of a Live Audience Work with Computers

If you answered "yes" to most of these questions, you might consider a future in one of the sample occupations listed below which are categorized by level of post-secondary training.

### PATHWAY FOCUS AREAS

◇ Performing Arts (PA) ◇ Visual Arts (VA) ◇ Publishing Arts (PU)

### SAMPLE CAREERS

Entry (OJT) On the Job Training	Technical/Skilled (1-3 yrs)	Professional (4 or + years)
Model (PA) Radio Operator (PA) Stage Hand (PA) Stunt Performer (PA) Film Loader (VA) Floral Designer (VA) Florist (VA) Projectionist (VA) Sound Technician (VA) *Desktop Publisher (PU) Circulation (PU) Copy Person (PU) Newsroom Worker (PU) Announcers (PA) Dancer (PA) Photographer (VA) TV, Video & Motion Picture Operator (VA)	Actor (PA) Book Illustrator (PA) Choreographer (PA) Dancer (PA) Disc Jockey (PA) Musician (PA) Talent Agent (PA) Animator (VA) Artist (VA) Broadcast Technician (VA) Fashion Designer (VA) Jeweler (VA) Make-up Artist (VA) Recording Engineer (VA) Video Manager (VA) Computer Graphic Artist (VA, PA) Web Designer (PU) *Desktop Publisher (PU)	Art or Music Teacher (PA) Cinematographer (PA) Composer (PA) Film Editor (PA) Music Critic (PA) Music Director (PA) News Broadcaster (PA) Curator (VA) Advertising Creator (VA) Art Director (VA) Industrial Designer (VA) Copy Writer (PU) News Writer (PU) Telecommunications (PU) Writer (PU) Interior Designer (PA) Editor (PA) Fashion Designer (VA) Multi-Media Artist (PA)

## Arts, A/V Technology & Communications Pathway

### COURSE RECOMMENDATIONS

Core Courses	Prerequisites	Grades
Algebra 1, 2 and Geometry	Sequential	8-12
English CP or English	Sequential	9-12
AP Language & Composition		11-12
AP Literature & Composition		11-12
Physical Science, Biology, & Chemistry	Sequential	9-11
<b>Elective Courses</b>		
Art Major 1		9,10,11,12
Art Major 2	Art Major 1	10,11,12
Art Major 3	Art Major 2	11, 12
Art Major 4	Art Major 3	12
AP Studio Art	Art AP Application Process	12
Ceramics		10-12
Sculpture	Art 1 or Ceramics	10-12
Digital Photography		10-12
Independent Study Program in Art		12
Digital Multimedia		9-12
Web Page Design		10-12
Advanced Web Page Design	Web Page Design	11-12
Web Tools		9-12
Introduction to Virtual Animation Design		10-12
Interior Design		10-12
Concert Band 1 & 2	By recommendation	9-12
Orchestra 1 & 2	By recommendation	9-12
Concert Choir	By recommendation	9-12
Beginning Music Theory		10-12
AP Music Theory	By recommendation	10-12
Beginning Piano Keyboard, Acoustic Guitar		10-12
Communication Skills		9
Introduction to Theatre: Literature & Performance		9
Introduction to Journalism		9
Journalism		10-11
Advanced Journalism: Media & Newspaper-H	Journalism or by recommendation	11-12
Advanced Journalism-Yearbook H	Journalism or by recommendation	11-12
Introduction to Film Studies		10-12
Creative Writing		10-12
Public Speaking, Rhetoric and Debate		10-12
Drama 1 & 2		10-12
MCTI-Computer Networking & Security	By application	10-12
MCTI-Graphic Communications	By application	10-12



**BUSINESS MANAGEMENT & ADMINISTRATION PATHWAY**  
**FINANCE PATHWAY**  
**MARKETING PATHWAY**  
**INFORMATION TECHNOLOGY PATHWAY**

These Pathways are designed to prepare students for careers in the areas of business management, finance and information services covering aspects of managing and processing digital information.

Are you interested in...	Can you...	Do you enjoy...
A business environment Management Advertising Marketing and Sales Computers and technology Web Development Presentations to groups Legal issues Accounting Different work sites	Work easily with others Organize your time efficiently Work with statistics Use computers and other technology Pay attention to details Solve problems Work independently Show initiative Work on a team	Meeting with groups Making budgets Organizing a project Planning an event Working with technology Selling products and services Processing numbers and figures Preparing financial reports Following directions Learning new software programs

If you answered “yes” to most of these questions, you might consider a future in one of the sample occupations listed below which are categorized by level of post-secondary training.

**PATHWAY FOCUS AREAS**

- ◇ Business Management (BM)    ◇ Finance (F)
- ◇ Information Technology (IT)    ◇ Marketing and Sales (MS)

**SAMPLE CAREERS**

Entry (OJT) On the Job Training	Technical/Skilled (1-3 yrs)	Professional (4 or + years)
Customer Service Representative (MS) Reservation/Travel Agent (MS) *Telemarketer (MS) Bookkeeper (F) Cashier (F) Payroll Clerk (F) Title Searcher (F) Computer Operator (IT) Accounts Payable Office Mgr (BM) Administrative Assistant (BM) Bank Teller (F) File Clerk (BM) Retail Sales Clerk (BM) School Secretary (BM) *Advertising Sales Agent (MS)	Computer Salesperson (MS) Retail Buyer (MS) Bank Collection Officer (F) Tax Preparer (F) *Claims Adjuster (F) Software Engineer (IT) Computer Programmer (IT) Production Support Analyst (IT) Desktop Publisher (IT & MS) Medical Secretary (BM) Real Estate Agent (BM & MS) Restaurant Manager (BM & MS) *Sales Representative (BM & MS) *Computer Support Specialist (IT)	Marketing Manager (MS) Certified Public Accountant (F) Economist (F) *Financial Manager (F) *Securities Sales Representative (F) E-Commerce Analyst (IT) *Systems Software Engineer (IT) *Systems Analyst (IT) Hospital Administrator (BM) Human Resources Manager (BM) Chief Executive Officer (BM) Manufacturing Sales Representative (BM & MS) *Management Analyst (BM)

\*High Priority Occupations – Job categories that are in demand by employers, have higher skill needs and are most likely to provide family-sustaining wages.

Business, Finance, & Marketing and Information Technology Pathway  
**COURSE RECOMMENDATIONS**

Core Courses	Prerequisites	Grades
Algebra 1, 2 and Geometry	Sequential	8-12
English CP or English	Sequential	9-12
AP Language & Composition		11-12
AP Literature & Composition		11-12
Physical Science, Biology, & Chemistry	Sequential	9-11
Discrete Math & Trig. Or Transition to College Math	Algebra 1, 2 and Geometry	12
Algebra 3 & Trigonometry	Algebra 2 and Geometry	11-12
Pre-Calculus H	Algebra 2-H, Algebra 3 and Geometry-H	10-12
AP Calculus AB	Pre-Calculus-H	11-12
AP Calculus BC	AP Calculus AB	12
Statistics & Probability - H	Pre-Calculus-H	11-12
<b>Elective Courses</b>		
French, German, Spanish	Sequential	9-12
Intro to Business		9
Advanced Computer Applications	By recommendation	9
Business Practices and Procedures		10-12
Basic Keyboarding		9-12
Computer Skills	Basic Keyboarding	9
Digital Multimedia		9-12
Personal Finance		10-12
Accounting 1		11-12
Accounting 2-H	By recommendation	12
Web Tools		9-12
Web Page Design		10-12
Advanced Web Page Design	Web Page Design	11-12
Introduction to Virtual Animation Design		10-12
Business Law		11-12
Sports, Entertainment, & Fashion Marketing		10-12
Entrepreneurship & Business Management		10-12
International Business		11-12
Office Apprenticeship	Application Process with Department Chairperson	12
Digital Photography		12
This is Your Life		9-12
Current American Issues		9
Psychology		10-12
Global Issues		10-12
Public Speaking, Rhetoric and Debate		10-12
Communication Skills		9
MCTI-Marketing	By application	10-12
MCTI-Computer Networking & Security	By application	10-12
MCTI-Graphic Communications	By application	10-12

**ARCHITECTURE & CONSTRUCTION PATHWAY**  
**MANUFACTURING PATHWAY**  
**TRANSPORTATION, DISTRIBUTION & LOGISTICS PATHWAY**  
**SCIENCE, TECHNOLOGY, ENGINEERING & MATH PATHWAY**

These Pathways are designed to cultivate students' interests, awareness and application to careers related to technologies necessary to design, develop, install and maintain physical systems.

Are you interested in...	Can you...	Do you enjoy...
Building and Construction Tools, Equipment and Materials Woodworking Math and Science Classes Fitness and Sports Precision Work Design and Architecture Engineering Computer Technology Production Management Curious how things work	Apply science and math to the real world Read and understand directions Solve problems of a complex nature Understand directives and read maps Organize reports and people See a task through to completion Use a computer	Travel Working with your hands Designing/working with projects, models and pro- totypes Working in a lab setting Working on a team Building with your hands Operating tools and equip- ment Pay close attention to detail

If you answered "yes" to most of these questions, you might consider a future in one of the sample occupations listed below which are categorized by level of post-secondary training.

**PATHWAY FOCUS AREAS**

◇ Architecture and Construction © ◇ Manufacturing (M) ◇ Engineering and Engineering Technology (ET) ◇ Transportation, Distribution and Logistics (TDL)

**SAMPLE CAREERS**

Entry (OJT) On the Job Training	Technical/Skilled (1-3 yrs)	Professional (4 or + years)
Carpet Installer © Drywall Worker © *Roofer © Machine Operator (M) Baggage Handler (TDL) Dockworker (TDL) Freight Handler (TDL) Laborer (C, M, TDL) Warehouse Worker (C, M, TDL) *Industrial Machine Me- chanic (M)  Apprenticeships: Brick Mason © Carpenter © Electrician © *HVAC © Plumber © Machinist (M) Diesel Mechanic (TDL) Surveyor (TDL &ET)	Grader & Dozer Operator © Electric Technician (M) Metal Engineering Techni- cian (M) Auto Mechanic (TDL) Air Traffic Controller (TDL) Auto Body Repair (TDL) Bus Driver (TDL) Diesel Mechanic (TDL) Dispatch (TDL) Motorcycle Mechanic (TDL) Taxi Driver (TDL) *Truck Driver (TDL) Truck Terminal Manager (TDL) Civil Engineering Techni- cian (ET) Robotics Technician (ET) *CAD/CAM Technician (M & ET) Laser Technician (M & ET) Production & Operating Workers Supervisor (M) Welder (M)	Navigator (TDL) Aeronautical Engineer (ET & TDL) Aerospace Engineer (ET & TDL) *Airline Pilot (ET & TDL) Architect (ET & C) Civil Engineer (ET & C) Chemical Engineer (ET) Computer Network Engi- neering (ET) Industrial Engineer (ET & M) Mechanical Engineer (ET & M) Astronaut (ET) *Nuclear Engineer (ET) Petroleum Engineer (ET) NASA Scientist (ET) Transportation Engineer (ET & TDL) Industrial Production Man- ager (M) Purchasing Agent (M) Technical Writer (E) *Construction Manager © *Cost Estimator ©

\*High Priority Occupations – Job categories that are in demand by employers, have higher skill needs and are most likely to provide family-sustaining wages

Architecture & Construction, Science, Engineering & Mathematics Pathway  
**COURSE RECOMMENDATIONS**

Core Courses	Prerequisites	Grades
Algebra 1, 2 and Geometry	Sequential	8-12
English CP or English	Sequential	9-12
AP Language & Composition		11-12
AP Literature & Composition		11-12
Physical Science, Biology, & Chemistry	Sequential	9-11
Discrete Math & Trig. Or Transition to College Math	Algebra 1, 2 and Geom- etry	12
Algebra 3 & Trigonometry	Algebra 2 and Geometry	11-12
Pre-Calculus H	Algebra 2-H, Algebra 3 and Geometry-H	10-12
AP Calculus AB	Pre-Calculus-H	11-12
AP Calculus BC	AP Calculus AB	12
Statistics & Probability - H	Pre-Calculus-H	11-12
<b>Elective Courses</b>		
Web Tools		9-12
Marine Science		9
Physics 1	Algebra 1, 2, and Geom- etry/ Biology and Chem- istry	10-12
AP Physics	Physics 1	12
AP Biology	Biology and Chemistry	11-12
AP Chemistry	Chemistry 1 H	11-12
AP Environmental Science	Biology & Chemistry	11-12
Anatomy & Physiology - H or CP	Biology & Chemistry	11-12
Environmental Issues/Bioethics	Biology	11-12
Pennsylvania Wild Natural Resources		11-12
Principles of Ecology & Field Biology	Biology & Chemistry	11-12
Chemistry 2	Chemistry 1	11-12
Introduction to Forensic Science	Biology & Chemistry	11-12
French, German, Spanish	Sequential	9-12
Psychology		10-12
Exploring Technology		9
Intro to Engineering & Design		9
CADD 1: Intro to CADD		10-12
Computer-Aided Drafting & Design – CADD		10-12
Architectural Design Technology		11-12
Advanced Computer-Aided Drafting		11-12
Emerging Energy Technologies		9
Robotics 1		10-12
Robotics 2		10-12
Communication Skills		9
MCTI - Drafting & Design Technologies	By application	10-12
MCTI - Precision Machining	By application	10-12

Construction Pathway  
COURSE RECOMMENDATIONS

Core Courses	Prerequisites	Grades
Algebra 1, 2 and Geometry	Sequential	8-12
English CP or English	Sequential	9-12
Physical Science, Biology, & Chemistry	Sequential	9-11
<b>Elective Courses</b>		
Exploring Technology		9
Emerging Energy Technologies		9
Materials Production 1		10-12
Materials Production 2		10-12
Materials Production 3		10-12
CADD 1: Intro to CADD		10-12
Computer-Aided Drafting & Design – CADD		10-12
Architectural Design Technology		11-12
Advanced Computer-Aided Drafting		11-12
Communication Skills		9
MCTI-Carpentry	By application	9-12
MCTI-Electrical Technology	By application	9-12
MCTI-Heating, Ventilation & Air Conditioning	By application	9-12
MCTI-Masonry	By application	9-12
MCTI-Plumbing	By application	9-12

Manufacturing Pathway  
COURSE RECOMMENDATIONS

Core Courses	Prerequisites	Grades
Algebra 1, 2 and Geometry	Sequential	8-12
English CP or English	Sequential	9-12
Physical Science, Biology, & Chemistry	Sequential	9-11
Discrete Math & Trig. Or Transition to College Math	Algebra 1, 2 and Geometry	12
Algebra 3 & Trigonometry	Algebra 2 and Geometry	11-12
Pre-Calculus H	Algebra 2-H, Algebra 3 and Geometry-H	10-12
AP Calculus AB	Pre-Calculus-H	11-12
AP Calculus BC	AP Calculus AB	12
Statistics & Probability - H	Pre-Calculus-H	11-12
<b>Elective Courses</b>		
Physics 1	Algebra 1, 2 and Geometry/ Biology and Chemistry	11-12
Intro to Engineering & Design		9
CADD 1: Intro to CADD		10-12
Computer-Aided Drafting & Design – CADD		10-12
Architectural Design Technology		11-12
Advanced Computer-Aided Drafting		11-12
Emerging Energy Technologies		9
Robotics 1		10-12
Robotics 2		10-12
Public Speaking, Rhetoric and Debate		10-12
Communication Skills		9
MCTI-Drafting & Design	By application	10-12
MCTI-Electronics	By application	10-12
MCTI-Precision Machining	By application	10-12
MCTI-Welding	By application	10-12

**TRANSPORTATION, DISTRIBUTION & LOGISTICS PATHWAY**  
COURSE RECOMMENDATIONS

Core Courses	Prerequisites	Grades
Algebra 1, 2 and Geometry	Sequential	8-12
English CP or English	Sequential	9-12
Physical Science, Biology, & Chemistry	Sequential	9-11
<b>Elective Courses</b>		
Intro to Engineering & Design		9
CADD 1: Intro to CADD		10-12
Computer-Aided Drafting & Design – CADD		10-12
Digital Photography		10-12
Architectural Design Technology		11-12
Advanced Computer-Aided Drafting		11-12
Explore Energy, Power & Transportation		9
Robotics 1		10-12
Robotics 2		10-12
Communication Skills		9
MCTI-Automotive Collision Repair	By application	10-12
MCTI-Automotive Technology	By application	10-12
MCTI- Diesel Technology	By application	10-12
MCTI-Outdoor Power Equipment Technology	By application	10-12

**HUMAN SERVICES PATHWAY**  
**EDUCATION & TRAINING PATHWAY**  
**HOSPITALITY & TOURISM PATHWAY**  
**GOVERNMENT & PUBLIC ADMINISTRATION PATHWAY**  
**LAW, PUBLIC SAFETY, CORRECTIONS & SECURITY PATHWAY**

These Pathways are designed to cultivate students' interests, skills and experiences for employment in careers related to family and human needs.

Are you interested in...	Can you...	Do you enjoy...
Working with People Owning Your Own Business Aging Adults Child Development Family & Social Services Food Preparation Teaching Counseling	Organize Well Plan and Direct Programs Be Creative Communicate Well Assume Leadership Work with a Team Use Inter-personal Skills Be Conscientious and Dependable Plan Budgets	Communication Services Helping and Protecting Others Working with People Counseling and Advising People Serving Others' Needs Interviewing People Selling Products and Services Handling Customer Complaints Searching for Answers to Human Problems

If you answered "yes" to most of these questions, you might consider a future in one of the sample occupations listed below which are categorized by level of post-secondary training.

**PATHWAY FOCUS AREAS**

- ◇ Counseling, Personal Care (CPC)
- ◇ Education (E)
- ◇ Law, Public Safety and Government (LPG)
- ◇ Hospitality and Tourism (HT)

## SAMPLE CAREERS

Entry (OJT) On the Job Training	Technical/Skilled (1-3 yrs)	Professional (4 or + years)
*Child Care Worker (CPC) Cosmetics Representative (CPC) Dry Cleaning Operator (CPC) Home Health Aide (CPC) Library Assistant (E) Armed Services Career (LPG) Bailliff (LPG) Postal Services Worker (LPG) Security Guard (LPG) Utility Worker (LPG) Aerobics Instructor (HT) Travel Agent (HT) Waitress (HT) *Teacher's Assistant © *Home Care Aide (CPC)	Barber (CPC) Cosmetologist (CPC) Fashion Designer (CPC) Manicurist (CPC) Massage Therapist (CPC) Mortician (CPC) Truck Driver (CPC) Teacher's Aide (E) Armed Services Career (LPG) Crime Lab Technician (LPG) Fire Fighter (LPG) Bartender (HT) Chauffer (HT) Flight Attendant (HT) Meat Cutter (HT) Personal Trainer (CPC) Postmaster (LPG) Chef (HT) Baker (HT)	Funeral Director (CPC) Marriage & Family Therapist (CPC) *College Professor (E) *Principal (E) *Teacher (E) City Manager (LPG) Criminologist (LPG) FBI Agent (LPG) Lawyer (LPG) Parole Officer (LPG) *Mental Health Counselor (CPC) Park Ranger (LPG) Workforce Director (LPG) Athletic Agent (HT) Executive Chef (HT) Family Planner (HT) Food Services Manager (HT) Hotel/Motel Management (HT) Historical Sites or Museum Guide (E) Historical Journalist (E) Librarian or Archivist (E) Information Manager (E)

\*High Priority Occupations – Job categories that are in demand by employers, have higher skill needs and are most likely to provide family-sustaining wages.



## Human Services, Education &amp; Hospitality

## COURSE RECOMMENDATIONS

Core Courses	Prerequisites	Grades
Algebra 2 and Geometry	Sequential	8-12
English CP or English	Sequential	9-12
AP Language & Composition		11-12
AP Literature & Composition		11-12
Physical Science, Biology, & Chemistry	Sequential	9-11
Discrete Math & Trig. Or Transition to College Math	Algebra 1, 2 & Geometry	12
Algebra 3 & Trigonometry	Algebra 2 & Geometry	11-12
Statistics & Probability - H	Algebra 2 and Geometry	11-12
<b>Elective Courses</b>		
French, German, Spanish	Sequential	9-12
Discovering Food		9-12
Child Study/Parenting		10-12
The Wonder Years: Exploring Early Childhood Education	Child Study/Parenting	10-12
Beginning Piano Keyboard, Acoustic Guitar		10-12
Human Anatomy & Physiology	Physical Science	10-12
Psychology		10-12
Model Congress		9
AP American Government & Politics		11-12
AP United States History		11-12
Contemporary Issues and the Law		10-12
Global issues		10-12
Business Law		11-12
Digital Multimedia		9-12
Business Practices and Procedures		10-12
Public Speaking, Rhetoric and Debate		10-12
Communication Skills		9
MCTI-Health Professions	By application	10-12
MCTI-Cosmetology	By application	10-12
MCTI-Culinary	By application	10-12
MCTI-Applied Horticulture (Floriculture)	By application	10-12
MCTI-Horticulture Operations (Landscaping)	By application	10-12
MCTI-Hotel, Resort, & Tourism Management	By application	10-12
MCTI-Law Enforcement	By application	10-12



Government & Public Safety  
COURSE RECOMMENDATIONS

Core Courses	Prerequisites	Grades
Algebra 2 and Geometry	Sequential	8-12
English CP or English	Sequential	9-12
AP Language & Composition		11-12
AP Literature & Composition		11-12
Physical Science, Biology, & Chemistry	Sequential	9-11
Discrete Math & Trig. Or Transition to College Math	Algebra 1, 2 and Geometry	12
Algebra 3 & Trigonometry	Algebra 2 and Geometry	11-12
Pre-Calculus H	Algebra 2-H, Algebra 3 and Geometry-H	10-12
AP Calculus AB	Pre-Calculus-H	11-12
AP Calculus BC	AP Calculus AB	12
Statistics & Probability - H	Pre-Calculus-H	11-12
Elective Courses		
Marine Science		9
Physics 1	Algebra 1, 2, and Geometry/ Biology and Chemistry	10-12
AP Physics	Physics 1	12
AP Biology	Biology and Chemistry	11-12
AP Chemistry	Chemistry 1 H	11-12
AP Environmental Science	Biology & Chemistry	11-12
Anatomy & Physiology - H or CP	Biology & Chemistry	11-12
Environmental Issues/Bioethics	Biology	11-12
Pennsylvania Wild Natural Resources		11-12
Principles of Ecology & Field Biology	Biology & Chemistry	11-12
Chemistry 2	Chemistry 1	11-12
Introduction to Forensic Science	Biology & Chemistry	11-12
Psychology		10-12
French, German, Spanish	Sequential	9-12
Current American Issues		9
Model Congress		9
AP American Government & Politics		11-12
AP United States History		11-12
Contemporary Issues and the Law		10-12
Global issues		10-12
Business Law		11-12
Digital Multimedia		9-12
Business Practices and Procedures		10-12
Public Speaking, Rhetoric and Debate		10-12
Communication Skills		9
MCTI- Law Enforcement	By application	10-12

### HEALTH SCIENCE PATHWAY

This Pathway is designed to cultivate students' interests in life, physical and behavioral sciences. In addition, it involves the planning, managing and providing of therapeutic services, diagnostic services, health information, biochemistry and research and development.

Are you interested in...	Can you...	Do you enjoy...
Health Care Environment Science and Medicine Medical Research Food Production Environment & Conservation Pharmacy Physical Therapy Sports/Fitness Information Systems Conservation Radiology	Pay attention to detail Use a computer and technology Work in a lab setting or medical facility Apply a scientific theory to real-life problems Work outdoors around animals and plants Collect and analyze data from experiments Work with people in need Work with science and math theories	Diagnosing and caring for sick animals Working outdoors with wildlife Solving problems Working on cutting-edge scientific research Working with a team Medical lab research Making a contribution to society Working with numbers Developing conclusions from a database

If you answered "yes" to most of these questions, you might consider a future in one of the sample occupations listed below which are categorized by level of post-secondary training.

#### PATHWAY FOCUS AREAS

- ◇ Health Science (HS)    ◇ Agriculture, Food & Natural Resources (AFN)
- ◇ Science, Technology and Math (STM)

#### SAMPLE CAREERS

Entry (OJT)	Technical/Skilled (1-3 yrs)	Professional (4 or + years)
Hospital Worker (HS) Patient Care Technician (HS) Dialysis Technician (HS) EEG Technician (HS) *Home Health Aide (HS) Physical Therapy Aide (HS) Animal Caretaker (AFN) Breeder (AFN) Extension Service Worker (AFN) Food Conservation Worker (AFN) Wildlife Reserve Worker (AFN) Hazardous Waste Technician (STM) Optician (STM) Data Entry (STM) Surgical & Mapping Technicians (STM) *Nurse's Aide, Orderlies (HS) *Pharmacy Technicians (HS)	Certified Nursing Assistant (HS) *Dental Hygienist (HS) Licensed Practical Nurse (HS) *Medical Lab Technician (HS) *Radiological Technician (HS) Respiratory Therapist (HS) Dental Lab Technician (HS & STM) Fish & Game Worker (AFN) Forest Conversationalist (AFN) GPS Technician (AFN) Surveyor (AFN) *Veterinary Technician (AFN) Nanotechnician (STM) Sound Engineer (STM) Personal Trainer (HS) *Emergency Medical Technician (HS) *Biological Technician (STM) Chemical Technician	Athletic Trainer (HS) Speech/Language Pathologist (HS) Dietician (HS) *Physician Assistant (HS) Medical Examiner (HS) *Pharmacist (HS) Physician (HS) Physical Therapist (HS) Registered Nurse (HS) Agronomist (AFN) *Environmental Scientist (STM) Geologist (AFN) Marine Biologist (AFN) Soil Conservationalist (AFN) *Veterinarian (AFN) Chemist (STM) Geneticist (STM) Statistician (STM) Zoologist (STM) *Nuclear Engineer (STM)

\*High Priority Occupations – Job categories that are in demand by employers, have higher skill needs and are most likely to provide family-sustaining wages.



Health Science Pathway  
COURSE RECOMMENDATIONS

Core Courses	Prerequisites	Grades
Algebra 1, 2 and Geometry	Sequential	8-12
English CP or English	Sequential	9-12
AP Language & Composition		11-12
AP Literature & Composition		11-12
Physical Science, Biology, & Chemistry	Sequential	9-11
Discrete Math & Trig. Or Transition to College Math	Algebra 1, 2 and Geometry	12
Algebra 3 & Trigonometry	Algebra 2 and Geometry	11-12
Pre-Calculus H	Algebra 2-H, Algebra 3 and Geometry-H	10-12
AP Calculus AB	Pre-Calculus-H	11-12
AP Calculus BC	AP Calculus AB	12
Statistics & Probability - H	Pre-Calculus-H	11-12
Elective Courses		
Business Law		11, 12
Web Tools		9-12
Entrepreneurship & Business Management		10, 11, 12
Discovering Food		9-12
Introduction to Allied Health		9-12
First Aid/Athletic Training 1 & 2		10-12
Healthy Lifestyles		10-12
Advanced Fitness		10-12
Physics 1	Algebra 1, 2, and Geometry/ Biology and Chemistry	10-12
AP Physics	Physics 1	12
AP Biology	Biology and Chemistry	11-12
AP Chemistry	Chemistry 1 H	11-12
AP Environmental Science	Biology and Chemistry	11-12
Anatomy & Physiology - H or CP	Biology & Chemistry	11-12
Environmental Issues/Bioethics	Biology	11-12
Pennsylvania's Wild Natural Resources		11-12
Principles of Ecology & Field Biology	Biology & Chemistry	11-12
Chemistry 2	Chemistry 1	11-12
Introduction to Forensic Science	Biology & Chemistry	11-12
Psychology		10-12
French, German, Spanish	Sequential	9-12
Public Speaking, Rhetoric and Debate		10-12
Communication Skills		9
MCTI-Health Professions	By application	10-12

Miscellaneous/General ELECTIVES

Courses	Prerequisites	Grades
American Foods	Discovering Food	10-12
Foreign Foods	Discovering Food	10-12
Interior Design		10-12
Employability Skills	By recommendation	11-12
Academic Strategies	By recommendation	9-12
British Literature		11-12
Modern Literature		11-12
Myth & Ritual in World Literature		11-12

# Course Descriptions

## Grades 9 through 12

### COURSE CHARACTERISTICS ABBREVIATIONS

AP = Advanced Placement  
H = Honors  
CP = College Preparation  
W = Workshop

s = Semester courses totaling 90 days  
L = Course includes double laboratory periods

## Art

The art curriculum at the high school level is designed to provide a strong foundation in the visual arts through studio production, art history, criticism, and aesthetics. Art students will learn many skills through concepts in art education to prepare them for life experiences both inside and outside the realm of art. Students will explore a variety of different media and techniques, as well as develop a deeper understanding of aesthetics and creative thinking skills. Studying art lends itself to higher level thinking, self-discipline and self-motivation, planning, commitment, and respect for others' opinions.

\* Unless otherwise specified, all courses meet 6/6 days per cycle

**6110 ART MAJOR 1**  
**Grades 9 - 12**  
**Credit: 1.00**

**6120 ART MAJOR 2**  
**Grades 10 - 12**  
**Credit: 1.00**

*(Recommend: These courses must be taken in sequence. For Art Major 2, students should have successfully completed Art Major 1)*

The purpose of Art Major 1 and 2 is to introduce the student to the many areas of the Arts. Basic foundations of design, painting and drawing will be included during the course of the year. Emphasis is placed on independent projects. The course is open to all students interested in the different levels of art.

**6130 ART MAJOR 3**  
**Grades 11 - 12**  
**Credit: 1.00**

*(Recommend: Successful completion of Art Major 1 & 2)*

Art Major 3 explores a broader spectrum of creative expression. By using foundations in art learned in Art 1 and Art 2 to reinforce traditional art media (acrylic paints, watercolor, charcoal, ink, etc.), the course offers an in-depth study of the art world. The program encourages creative development through an emphasis on independent projects which the student selects, defines and executes.

**6140 ART MAJOR 4**  
**Grade 12**  
**Credit: 1.00**

*(Recommend: Successful completion of Art Major 1, 2, & 3.)*

It is a recommendation for the student entering Art 4 to have achieved a competency level in Art 1, 2, and 3. The majority of projects in Art 4 emphasize the expansion of individual skills and consequently are more difficult to solve. The student will be challenged on every project. Each student will be expected to maintain a professional portfolio according to his/her individual skills. The Art 4 student will be expected to exhibit responsibility in the development of school, district, and community art shows.

**6137 DIGITAL PHOTOGRAPHY (s)**  
**Grades 10 - 12**  
**Credit: 0.50**

This course approaches photography as an artistic and journalistic medium by understanding how photography has developed through the years. Students will learn how to incorporate visual arts elements and design principles into their photography, learn various camera and lighting techniques, and express themselves through manipulation of images using digital media. By the end of this course, students will have a photographic portfolio including a variety of photographs and digital imagery.

**6123 CERAMICS (s)**  
**Grades 10 - 12**  
**Credit: 0.50**

Students will learn the physical and chemical properties of clay and techniques needed to create hand-built, wheel thrown pottery and sculptural form. The course is taught with an emphasis on historical and contemporary designs and will stress an introduction and mastery of the processes needed to complete a variety of clay pieces. Glaze application and kiln usage will also be covered in this course.

**6125 SCULPTURE**  
**Grades 10 - 12**  
**Credit: 1.00**

*(Recommend: Successful completion of Art 1 or Ceramics)*

This course is an entry level sculpture class for students who have successfully completed Art Major 1 or the Ceramics class. Students should have a basic understanding of drawing, design and a variety of media and their applications. There will be an emphasis on the modeling process and spatial elements. Students will explore multiple compositional styles and mastery of historical and contemporary influences on the sculptural process.

**6146 AP STUDIO ART: PORTFOLIO PREPARATION**  
**Grade 12**  
**Credit: 1.00**

*(Recommend: Successful completion of Art Majors 1, 2, 3, or a combination of Art Majors and other art courses.*

This class is designed for seniors who are serious art students considering a career in the field of art. Throughout the course of the year, students will be focusing on foundation art skills such as drawing, painting, design and sculpture. Students will explore a variety of media and techniques, and will also develop a portfolio incorporating original work and photographs and/or slides of work. Students will have an opportunity to submit a portfolio for AP College Board review consisting of Section I: Quality, Section II: Concentration, and Section III: Breadth. Students planning to take the AP Studio Art course need to submit a portfolio of ten pieces completed in their tenth and eleventh grade years, as well as completed paperwork, for review by the high school art department.

**6145 INDEPENDENT STUDY PROGRAM**  
**Grade 12**  
**Course meets 6/6 days per cycle**  
**Credit: 1.00 or 0.50**

The purpose of an Independent Study in the Visual Arts is to afford students who possess advanced skills and creativity in the field of art the opportunity to expand their talents in a "concentration" area (i.e. drawing, illustration, fibers, sculpture, etc.) of artistic study. Projects are designed to fully challenge the student's individual art skills while serving to provide him/her with the opportunity to assemble a professional quality portfolio. Students will also have the opportunity to work with Digital SLR Cameras, iMac computers and Adobe Photoshop for manipulating their art and photography.

The intent of this program is to provide this opportunity for students to gain exposure in areas of the visual arts not presently offered through the existing high school art curriculum.

Eligibility for Independent Study:

1. The student must have attained the status of senior.
2. The student must have had an A average in previous course work in the Visual Arts.
3. The student must have demonstrated the characteristics of self-motivation,

superior ability in the visual arts, and the individual creativity necessary to focus on a predetermined and defined concentration area in the visual arts.

4. The students must provide portfolio evidence of the potential for independent study-based learning through a portfolio review, art teacher recommendation, and submission of required paperwork.

## Business, Computer & Information Technology

The content area of business education provides a foundation for success for all students, no matter what their ultimate goals in life may be. Students who will graduate and operate small businesses, as well as future entrepreneurs, need to understand the principles of business if they are to make wise decisions. No student can function in today's society and escape the need for the life-long lessons that are taught in the business education curriculum. The ability to use computers efficiently with other components of information systems is a "must" for everyone in our increasingly technological society. Students learn to use computers as tools in conjunction with related software. In addition, they learn to make decisions, to produce professional documents, to communicate via Internet, and to research topics utilizing libraries around the world. Students who study business education will have increased opportunities to succeed in whatever field they may choose to pursue.

\* Unless otherwise specified, all courses meet 6/6 days per cycle

**7150 INTRODUCTION TO BUSINESS**  
**Grade 9**  
**Credit: 1.00**

Introduction to Business not only serves as a foundation upon which future business courses will be built, but also enriches students with beneficial knowledge they will use on a daily basis – in and outside of school. It deals with economic concepts at a simplified level so that the student can grasp an idea of how our business world works. Students will be introduced to the business world both locally and internationally. Banking services, money management, insurance policies and consumer rights and responsibilities are some of the topics included in this course. In later courses, these concepts are developed in detail, giving a more complete picture of business organization.

**7151 ADVANCED COMPUTER APPLICATIONS (s)**  
**Grade 9**  
**Credit: 0.50**

Using various platforms such as Microsoft Office and Google, students will learn to and enhance documents. Time will also be spent in Publisher to create calendars, brochures and other types of business related materials. Additional components taught in this class include web 2.0 tools, online collaboration, Google Maps and other Google concepts.

**7152 DIGITAL MULTIMEDIA (s)**  
**Grades 9 - 12**  
**Credit: 0.50**

Students will create and enhance photos using Photoshp techniques. This skills-based course will prepare students for college and the workforce by developing skills that can be used in a variety of business related fields. In addition, students will learn to make powerful presentations with advanced features of Microsoft PowerPoint as well as various online presentation programs. Students will also learn the basics of Photo Composition through the use of digital cameras in the classroom. Software to be covered includes Adobe Photoshop, PowerPoint, Publisher, as well as the Internet and Adobe Flash.

**7153 BASIC KEYBOARDING (s)**  
**Grade 9-12**  
**Credit: 0.50**

This course is designed for students who have LIMITED TO NO keyboarding

experience. This semester course provides the student with hands-on training in the correct touch typing techniques on computers. Basic word processing skills and formatting is emphasized to promote efficient document creation. Personal business letters, memos, and simple reports are also included in the course.

**7154 COMPUTER SKILLS (s)**

**Grade 9**

**Credit: 0.50**

*(Recommend: Successful completion of Basic Keyboarding)*

This course is designed for every student and will introduce computer components and software packages used in the workplace. Students will have hands-on experience using word processing, database, spreadsheet and presentation software. Applications of the computer will be stressed. Students who have passed Advanced Computer Applications (B155) may not take this course.

**7235 WEB TOOLS (s)**

**Grades 9 - 12**

**Credit: 0.50**

This course will provide the opportunity for students to develop the skills needed to find information on the worldwide web. The students will demonstrate these skills in various content areas. Students will learn how to develop search strategies, use search engines, web indexes and advanced web searches. The creation of basic web pages, blogs and podcasts will also be completed during the course. Discussions of protecting one's computer will be part of this course. This course is a must for all college-bound students.

**7260 BUSINESS PRACTICES & PROCEDURES (s)**

**Grades 10 - 12**

**Credit: 0.50**

Students who participate in this course will obtain lifelong business communication and presentation skills to succeed in our ever-changing global society. Students will learn ethical and social responsibility, rules of parliamentary procedure and will develop and demonstrate good communication, decision-making and leadership skills. The experiences gained in this course may be used in real life situations. Students involved in FBLA or other student leadership organizations are strongly encouraged to take this course.

**7259 INTRODUCTION TO VIRTUAL ANIMATION DESIGN (s)**

**Grades 10 - 12**

**Credit: 0.50**

This course will provide conceptual understanding of animation design and practical experience in the design and the development of animation. The course will enhance student skills in the areas of communication, problem solving, analyzing and critical thinking. Students will be creating and adding animation to a variety of games and will also use problem-solving skills in technology as a systematic process. They will evaluate and review animation in production.

**7230 PERSONAL FINANCE**

**Grade 10 - 12**

**Credit: 1.00**

Personal Finance is designed to build skills in planning for one's financial future. Many topics will be covered including banking, budgets, credit, loans and interest, purchasing a home and car, gross and net pay, insurances, personal taxes, tax return preparation and other concepts for personal finance.

**7220 ACCOUNTING 1**

**Grades 10 - 12**

**Credit: 1.00**

In Accounting 1, students will acquire an understanding of basic accounting principles and procedures used in daily business operations. Simulated office experiences are provided to help the student understand the accounting cycle. This course is designed to prepare students to enter the workforce after graduation or attend a community or four year college to major in business and finance. Students will also be introduced to computerized accounting using textbook software.

**7320 ACCOUNTING 2 - H**

**Grade 11-12**

**Credit: 1.00**

*(Recommend: Successful completion of Accounting 1)*

Accounting 2 builds on basic principles learned in Accounting I. In addition to a review of the basic procedures of manual accounting systems, the computer is used extensively for accounts receivable, accounts payable and general ledger accounting. Peachtree Accounting and Microsoft Excel will be used to complete accounting problems. Emphasis is placed on the analysis of accounting data by managers and others involved in making day to day business decisions.

**7256 WEB PAGE DESIGN (s)**

**Grades 10 - 12**

**Credit: 0.50**

This course will provide the opportunity for students to develop the skills necessary to design Web Pages for the Internet. Students will learn the capabilities and the structure of HTML programming to create colorful, eye-catching Web pages like those developed by professional Webmasters. HTML is relatively easy to learn and works with nearly any type of computer system. Students taking this course will not only acquire impressive programming skills quickly, but can also apply these skills to several other popular programming languages such as Java, C++, or Pascal.

**7257 ADVANCED WEB PAGE DESIGN (s)**

**Grades 10 - 12**

**Credit: 0.50**

*(Recommend: Successful completion of Web Page Design)*

This is an advanced level course designed to expand on the skills acquired in Web Page Design. Students will learn advanced web page design using HTML and Dreamweaver, and other possible programming languages. Students will also learn the JavaScript language in this course to extend the functionality of HTML. JavaScript source code will be integrated with HTML in order to enhance the capabilities of Web pages. Students will apply the knowledge and skills acquired in Web Page Design in the creation of web pages used by the district and possibly outside businesses, community members, or any other seeking the services of the students.

**7354 MACROMEDIA WEB DESIGN**

**Grades 11 - 12**

**Credit: 1.00**

*(Recommend: Successful completion of Web Page Design)*

This course introduces Macromedia's suite of Web-authoring applications, and shows how to use them to create appealing and cutting-edge multimedia. The course will use Macromedia programs such as Flash 8, Dreamweaver 8, and Fireworks 8. This course takes on adding special effects to web authoring. Students will create an interactive home page as a final project for this course.

**7352 BUSINESS LAW**

**Grades 11 - 12**

**Credit: 1.00**

The Business Law curriculum covers two main areas – the legal system and personal business law topics. Business Law examines the federal and state legal systems and procedures. It familiarizes the student with the nature and workings of the law as it affects day to day situations such as sales contracts, frauds, credit, property rights, insurance and renting. Students will experience legal situations through Mock Trials, video trials, and guest speakers. If students are interested in pursuing a business or legal career, this course will give them a foundation for college Business Law courses.

**5652 CAREER PLANNING (s)**

**Grade 10**

**Course meets 3/6 days per cycle**

**Credit: 0.25**

*(Required of all sophomores)*

This course provides the opportunity to explore career options and pathways.



An emphasis is placed on communication skills, resume writing, the application process, interviewing techniques, and personal presentation as they relate to educational and career planning. A one-day job shadowing experience is a requirement for this course. All elements of this course must be completed successfully in order to graduate.

#### **7254 SPORTS, ENTERTAINMENT & FASHION MARKETING**

**Grades 10 - 12**

**Credit: 1.00**

This course stresses sports marketing and the principles that are behind marketing athletics. The course will also discuss the entertainment and fashion marketing industries. Students will have the opportunity to have hands-on experience in sports marketing and develop a marketing presentation.

#### **7251 ENTREPRENEURSHIP & BUSINESS MANAGEMENT**

**Grades 10 - 12**

**Credit: 1.00**

This course is designed for the student who wants to obtain an understanding of how business works in society. Students will explore the idea of creating and managing their own business. Students will design their own small business and develop a quality business plan. The course will cover such topics as entrepreneurship, economic principles, management styles, human relations skills, managing inventory, production management, operations & staffing and risk management on both a personal and professional level.

#### **7253 INTERNATIONAL BUSINESS**

**Grades 11 - 12**

**Credit: 1.00**

This course introduces students to business principles that are important to be successful in the global marketplace. It acquaints students with economic concepts that are central to the operation of successful international economic enterprise. It helps students to identify the business operations in various regions, to understand cultural differences in other countries and the challenge created by those differences to Americans trying to conduct business in foreign nations.

#### **7451 OFFICE APPRENTICESHIP (s)**

#### **7452 OFFICE APPRENTICESHIP**

**Grade 12**

**Courses meet 6/6 days per cycle**

**Credit: 0.50 or 1.00**

*(Prerequisite: Complete application process with department chairperson)*

This senior course is designed to give business students the opportunity to apply theoretical concepts to practical applications in actual on-campus office environments. This course provides an excellent vehicle for attaining job competencies and developing work attitudes, habits, and ethics that will enhance employability. Students will be designated as apprentice workers in various office settings where they will both apply and improve skills acquired in the classroom.



## English

The English Department offers a variety of courses to meet the needs of all students: Advanced Placement and Honors courses, College Preparatory courses, courses for Core Curriculum program, Reading/Writing Workshops for students in need of remediation, and a full complement of elective courses open to all students. The department also provides an Individualized Program for students identified as needing additional instruction and practice, and a Writing Lab is maintained to assist students with the completion of coursework. The department also provides services for English Language Learners through our English as a Second Language (ESL) Program.

Toward the successful completion of course requirements, students will perform research tasks, read and comprehend a variety of texts, solve problems and make decisions, write for a variety of purposes, analyze and make critical judgments, exchange information orally and develop listening skills, and produce and publish work.

Starting with the graduating class of 2019, ALL students are required to take the Literature Keystone Exam and score proficient to graduate. Students not scoring proficient may (at the district's discretion) be scheduled in a remediation course in lieu of an elective course.

\* Unless otherwise specified, all courses meet 6/6 days per cycle

#### **1110 ENGLISH 9-H AMERICAN LITERATURE (NCAA)**

**Grade 9**

**Credit: 1.00**

(All students taking this course will take the Literature Keystone Exam in the Spring.)

This course is designed to meet the needs of college bound students who have mastered usage and writing skills, are avid readers, and have a keen desire to become more sophisticated users of the English language. The course is a survey of American Literature that focuses on analytic development, vocabulary development, speech preparation and delivery, creation and development of analysis papers, and correction of an assortment of writing problems. Writing assignments will address a variety of formats; however, a substantial emphasis will be given to producing short analysis papers and essay responses as an avenue towards constructing an articulate and polished larger paper. Independent reading of all selected classics of American literature will be required of honors students.

#### **1120 ENGLISH 9 - CP (NCAA)**

**Grade 9**

**Credit: 1.00**

This course includes vocabulary development, the study of grammar and related writing problems, and speech preparation. The study of literature includes the genres of short fiction, drama, poetry, and the novel. The College Preparatory student should demonstrate a desire to develop his or her English skills so that he or she will succeed in college. Specific works of literature encountered will include Romeo and Juliet, Great Expectations, and short stories by Benet, Connell, Guthrie, and Hurst. Writing assignments include a fictional narrative and an extended expository paper.

#### **1130 ENGLISH 9**

**Grade 9**

**Credit: 1.00**

This course includes study skills, applied grammar, vocabulary development, the study of literature, and job-related skills. The English 9 students should exhibit a desire to continue their education after senior high school, typically at a technical school or community college, or seek meaningful employment. Class work will emphasize hands-on projects and application. Effective communication skills are an integral component to this course.

#### **1140 ENGLISH 9 WORKSHOP**

**Grade 9**

**Credit: 1.00**

This course includes grammar, vocabulary development, the study of literature, and writing. The class emphasizes the integration of reading and writing. Students

will write in response to a variety of reading assignments including short stories, novels, and plays. The reading and writing process will be highlighted within the context of each assignment. Students will be placed in this course if they have scored below the proficient level on the PSSA in eighth grade. In the event that all sections become filled, additional criteria will be implemented to determine eligibility. Students will be scheduled for a full year of Reading/Writing Edge (1141) along with this course.

**1141 READING/WRITING EDGE 9**

**Grade 9**

**Credit: 1.00**

**1142 READING/WRITING EDGE 9(s)**

**Grade 9**

**Credit: 0.50**

This program is designed for students who have been identified as needing additional instruction and guided practice with reading, writing and language arts. Students who score below the proficient level on the state reading assessment and who did not reach proficiency after completing Reading/Writing Edge 8 will be assigned to Reading/Writing Edge 9. Placement of new students to the district will be determined by the state assessment or scores from the previous school (PSSA or other state assessment). If a student does not have a state assessment score, a pre-test will be given to determine eligibility. Students will be placed in a full year of Edge if they have scored below basic on the PSSA in eighth grade. In the event that all sections become filled, additional criteria will be implemented to determine eligibility.

The purpose of the course is to give students an edge in their reading performance to help them meet Pennsylvania Academic Standards in reading and writing. Instruction will target reading comprehension and writing. Students will also learn strategies to improve their academic performance in all subject areas.

**1210 ENGLISH 10-H WORLD LITERATURE SEMINAR (NCAA)**

**Grade 10**

**Credit: 1.00**

*(Students who have not taken the Literature Keystone Exam will take it in the Spring.)*

This course employs a thematic approach to the study of literature. The development of the hero in literature is traced. Works are read in their entirety and typically include The Epic of Gilgamesh, Gawain and the Green Knight, Oedipus, the King, and Hamlet. Students alternate writing literary analysis papers with various projects. Students are also expected to participate daily in class discussion. Vocabulary is presented weekly. SAT testing elements are emphasized. The mechanics of writing are presented through a prescriptive approach in relation to specific writing tasks. Students are expected at times to generate their own topics and to write with absolute voice and style. The course also puts a strong emphasis on grammar to coincide with the SAT writing section.

**1220 ENGLISH 10 - CP (NCAA)**

**Grade 10**

**Credit: 1.00**

*(All students taking this course will take the Literature Keystone Exam in the Spring.)*

This course is designed to meet the needs of students who will enter college or other post-secondary education after high school. The course includes a survey of American literature, vocabulary development, spelling, a review of punctuation, informative oral presentation, and correction of writing problems. Writing assignments will include journal entries, essays, diary entries of a fictional character, a memoir, and a self-assessment paper. This course is a survey of American literature. Authors read include Irving, Poe, Bryant, Hawthorne, Emerson, Thoreau, Porter, Fitzgerald, Hemingway, Salinger, Updike, Frost, Whitman, and Cummings. Intensive independent reading from selected works, including novels, is required as well as several short analysis papers.

**1230 ENGLISH 10**

**Grade 10**

**Credit: 1.00**

*(All students taking this course will take the Literature Keystone Exam in the Spring.)*

The course for tenth grade is designed to meet the needs of students interested in entering the workforce, technical school, or a two-year college following high school graduation. This course will include components concerned with communication in the workplace, vocabulary, spelling, American literature, writing and usage. Students will read short stories, plays, and novels by a variety of authors such as Poe, Jackson, Rose, Wilder, Hemingway, Hawthorne, and Frost. Writing assignments will include a character sketch and essay answers. The course will deal with problems in usage and mechanics such as punctuation, word agreement, recognizing correct sentences, and words often confused.

**1300 AP LANGUAGE AND COMPOSITION (NCAA)**

**Grades 11-12**

**Credit: 1.00**

Students may choose to take this course as their English credit for their junior or senior year. It is a college level course that offers the student the opportunity to specialize in language and composition and to become a more critical reader. Successful completion of this course and the AP examination may lead to college credit.

The course is devoted to planning, drafting, revising, and editing as critical components of the writing process. Writing tasks include persuasion, definition, a book review, narration, and comparison/contrast. Students also write for publication. Sophisticated expression is the goal.

**1320 ENGLISH 11 - CP (NCAA)**

**Grade 11**

**Credit: 1.00**

This course approaches the study of World Literature through a chronological survey. Major works read typically include the Epic of Gilgamesh, The Odyssey, Oedipus, the King, Hamlet, Sir Gawain and the Green Knight, A Doll's House and Antigone. The course also emphasizes oral and written analysis of literature. The core writing assignments are a response to the major pieces of literature. Literary analysis papers are also required.

**1330 ENGLISH 11**

**Grade 11**

**Credit: 1.00**

This world literature course represents the third level of the curriculum designed for students entering a vocational school, a community or 4-year college, the military, or the workplace. Students will develop practical and higher-level thinking skills through exposure to works such as poetry, short stories, plays, a short research paper, and a portfolio creation of these same types of writing. The world literature selections range from ancient civilizations to the Renaissance with options from genres including Romanticism and Modernism (students may also be provided with the chance to read contemporary selections). The required units include The Epic of Gilgamesh, The Odyssey by Homer, Oedipus the King by Sophocles, and Hamlet by Shakespeare. This assortment will serve as an avenue for continuous instruction in reading, writing, and speaking and listening skills based on the Pennsylvania State Standards. Through presentation of projects, technology, and differentiated materials, students will gain an appreciation and understanding of literary and practical skills needed for success in their future.

**1353 STUDIES OF SCIENCE FICTION (s)**

**Grades 10-12**

**Credit: 0.50**

In Studies of Science Fiction, students will examine the world we live in through the parabolic nature of the genre. Science Fiction Literature, while taking readers to new places, be they planets, times, or dimensions, is actually a grounded study of our contemporary culture. Students will examine how pressing issues like the growth of artificial intelligence, the impact of machinery on the workforce, the social and psychological pressure of industrialization and globalization, automation, travel, and our conceptions about space, time, and reality, weigh upon us today. Students will be asked to critically think about the application and implications of textual events to the real world.

**1400 AP LITERATURE AND COMPOSITION (NCAA)****Grade 12****Credit: 1.00**

Students may choose to take this course as their English credit their senior year. It is a college level course that stresses critical reading and extensive literary analysis. Successful completion of this course and the AP examination may lead to college credit. The course stresses critical reading and literary analysis. Works such as Macbeth, Madam Bovary, As I Lay Dying and other works of comparable literary value will be read. Short stories by John Cheever and James Joyce will be studied, as well as poets Keats, Eliot, and Donne. Writing assignments will include book reviews, analysis papers, research papers, and journal entries. Class work will be devoted to discussing the literary works, peer editing of student writing, and striving to improve critical abilities and writing skills.

**1430 ENGLISH 12****Grade 12****Credit: 1.00**

This course represents the culmination of the curriculum, designed to prepare students to enter a vocational school, community college, four-year college, or the workplace including the military. Emphasis is placed upon the skills needed to function in an increasingly complex world. Students will perform various research tasks, read and comprehend a variety of texts, solve problems, write for a variety of purposes, and analyze and make critical judgments. Literature studied typically includes Arthur Miller's Death of a Salesman, William Golding's Lord of the Flies, Macbeth, another short novel, and independent readings. Short stories and poetry are also read. A reader response journal and vocabulary notebook are required.

**SENIOR CP ENGLISH: MUST TAKE COMPOSITION, THEN CHOOSE ONE SEMESTER OF LITERATURE:****1420 COMPOSITION - CP (s) (NCAA)****Grade 12****Credit: 0.50**

This required CP semester course specializes in language and composition. Class work is devoted to language mastery and the critical components of the writing process: planning, drafting, revising and editing. Core writing assignments include extended persuasive, definition, narrative, and descriptive essays, and numerous journal entries. A portfolio will be developed throughout the semester. Critical reading of contemporary essayists including George Orwell, Joan Didion, Ray Bradbury, Maya Angelou, and Annie Dillard is undertaken.

**1421 BRITISH LITERATURE - CP (s) (NCAA)****Grade 12****Credit: 0.50**

This semester course is a survey of major British authors. Poetry, the novel, drama, and short story are studied. Authors that students might encounter include Nadine Gordimer, V.S. Naipaul, Anita Desai, William Shakespeare (Macbeth), John Keats, Charlotte Bronte, James Joyce, T.S. Eliot and George Orwell. Skills emphasized include reading critically and independently, understanding plot structure, using and understanding figurative language, identifying themes in literature, and proofreading.

**1423 MODERN LITERATURE - CP (s) (NCAA)****Grade 12****Credit: 0.50**

This semester course focuses on relevant themes and styles in significant authors' works of the early twentieth century. Writers studied include Hemingway, Faulkner, Camus, Sartre, Joyce, and Miller. The course also emphasizes oral and written analysis. Several short papers and a culminating literary analysis project are undertaken. Skills emphasized include critical and independent reading, understanding plot structure, using and understanding figurative language, identifying themes in literature, and identifying various critical approaches.

**1424 MYTH AND RITUAL IN WORLD LITERATURE (s) (NCAA)****Grade 12****Credit: 0.50**

This course will provide an examination of the universal themes and ideas of mankind. It will take the student on a journey into an exciting and mysterious world where he or she can expect to encounter gods, heroes, monsters, exotic countries, and amazing adventures. Instead of concentrating on the differences that separate cultures across the globe, it examines the similarities and the universal themes of the human experience. It will examine mythological stories from around the world. This course emphasizes oral and written analysis of literature. Several short papers are undertaken that require considerable research. Skills emphasized include reading critically and independently, understanding plot structure, using and understanding figurative language, identifying themes in literature, proofreading, and oral reporting.

**READING/WRITING WORKSHOPS ARE RECOMMENDED FOR STUDENTS IN NEED OF REMEDIATION:****1231 ENGLISH****Grades 10 - 12****Credit: 1.00**

English is the language arts class linked to Reading/Writing Edge. The classes are scheduled together as a double period block and provide students with intensive instruction in reading and writing. The course includes writing development, grammar and the study of American literature. Students will write in response to reading assignments. Students will be placed in this course and Reading/Writing Edge 10 if they scored below the proficient level on the state reading assessment and did not reach the proficient level after 9th grade. For students new to the district, a pre-test will be given to determine eligibility.

**1246 READING/WRITING EDGE****Grades 10 - 11****Credit: 1.00**

This program is designed for students who have been identified as needing additional instruction and guided practice with reading and language arts. Students who score below the proficient level on the state reading assessment and who did not reach the proficient level after completing Reading/Writing Edge 9 will be assigned to Reading/Writing Edge. For students new to the district, a pre-test will be given to determine eligibility. The purpose of the course is to give students an edge in their reading performance to help them meet Pennsylvania Core Standards in reading and writing. Instruction will target vocabulary development, reading comprehension, and writing. Students will also learn reading strategies to improve academic performance with subject area material. Students placed in Reading/Writing Edge will also be scheduled for English. The classes are scheduled together as a double period block and provide students with intensive instruction in reading and writing.

**1340 READING/WRITING WORKSHOP****Grade 12****Credit: 1.00**

This course focuses on the improvement of the student's reading and writing skills through the use of a workshop atmosphere. Critical reading ability is developed. Students are encouraged to choose their own reading and writing topics following a guided choice of materials. Students record their responses to their reading in a reading log. Writing assignments are developed as a result of their reading. Grammar, spelling, and vocabulary are taught in the context of individual writing and reading conferences with the students.

**ENGLISH ELECTIVES: THESE COURSES ARE OFFERED IN ADDITION TO THE DISTRICT REQUIRED ENGLISH COURSES.****1163 COMMUNICATION SKILLS (s)****Grade 9****Credit: 0.50**

This course is designed for students who wish to improve their communication skills. Students will learn skills appropriate for formal speaking situations. Students will be given opportunities to practice different forms of public speaking,

such as oral readings, drama, speeches and debates. Practical experiences will be offered. Reflection and self-evaluation activities will be used to make students aware of their own abilities.

## **1162 INTRODUCTION TO THEATRE**

**Grade 9**

**Credit: 0.50**

“What’s your motivation?”... “Don’t upstage yourself!”... “When you say that line, move down stage right.” This class is an introduction to basic theater terms and acting techniques. Students will practice various relaxation methods and develop physical and vocal warm-ups to get ready to perform. They will play theater games to build community and confidence. Pantomime and improvisation activities lead the way into monologues and scene work. Students will memorize at least one monologue and perform at least one scene. Student must read plays and memorize lines. In addition, they must get up in front of the class and act!

## **1150 INTRODUCTION TO JOURNALISM**

**Grade 9**

**Credit: 1.00**

The Introduction to Journalism course is designed to familiarize the students with the fundamentals of journalism. Topics covered will include interviewing, reporting, writing and copy editing, the history of journalism, thinking critically about the media, ethics and decision making, and libel and First Amendment rights. In relation to the skills of the course, students will be working in a collaborative writing setting where the teacher will act more in a role of facilitator than information provider. Ninth grade students will write articles of interest to them, participate in peer editing and revision scenarios, and develop leadership ability as they acquire responsibility and ownership over many aspects of the online school newspaper.

## **1355 JOURNALISM**

**Grades 10 - 11**

**Credit: 1.00**

Journalism is a course designed for a student who is interested in all aspects of the publications industry. In this course, we will familiarize the student with the role of the journalist in today’s society. Students will discuss the legal aspects of publication. They will develop their interviewing, pre-writing, revising, and copy editing skills. Students will learn how to write effective headlines, cutlines, captions and leads. They will write feature, news, opinion and sports stories. Layout techniques and basic graphic design, using Adobe InDesign, will be taught. While the primary focus of the course for the students is learning the fundamentals, they will be expected to participate in the creation of the newspaper, the Mountaineer. They will produce several portfolios.

## **1415 ADVANCED JOURNALISM: MEDIA AND NEWSPAPER - H**

**Grades 11 - 12**

**Credit: 1.00**

*(Prerequisites: Journalism)*

The Honors Media and Journalism class exposes students to essential journalistic techniques alongside modern digital and print media production and design. Students will receive hands-on experience with newspaper writing, research and communication techniques; layout design through Adobe In-Design and Photoshop; and photography and graphics creation. Students will refine their communication skills through interviewing other students, teachers and other school staff as well as members of the greater Stroudsburg community. Students will then apply these skills to the creation of Stroudsburg High School’s newspaper, the Mountaineer. The course aims not only to satisfy, but to go beyond the publication standards as set by organizations such as the Pennsylvania School Press Association. Students taking this honors course will be expected to think creatively, work both independently and with classmates, accept and provide constructive criticism, put in hours outside of class time, and show initiative.

## **1416 ADVANCED JOURNALISM: YEARBOOK - H**

**Grades 11 - 12**

**Credit: 1.00**

*(Prerequisite: Journalism)*

Students will be taught advanced layout and design techniques for the yearbook. Students will learn how to plan and write copy, captions and headlines. Students

are required to dedicate a significant amount of time outside of the classroom. Using an online program developed by Herff Jones eDesign, students will learn the importance of creating and carrying a theme throughout a publication. Students are responsible for creating a product that costs tens of thousands of dollars to produce.

## **1354 INTRODUCTION TO FILM STUDIES (s)**

**Grades 10 - 12**

**Credit: 0.50**

Here’s your opportunity to be exposed to 100 years of cinematography, from Hollywood blockbusters to quirky, independent films! In this semester course, students will learn to “read” the language of the film, and will study different elements of film, such as the cinematography, mis en scene, movement, editing, and sound. Students discuss these films, as well as their own personal favorites, new and old. Students should come away from this course with literally a list of hundreds of films they may want to add to their own personal queue. Students will gain a better understanding and appreciation for the art of film throughout this course. This course is for serious, open-minded film viewers, interested in broadening their cinematic knowledge. Students will be required to take notes during films, observe the different techniques used and partake in thoughtful class discussions about the films viewed in the class. Students will be expected to read excerpts about film techniques and film history. Sophisticated oral and written analysis of film will be required. Students will be expected to write a series of short analytical papers exploring film techniques based on the films viewed in the class.

## **1356 CREATIVE WRITING (s)**

**Grades 10-12**

**Credit: 0.50**

With the help of the Creative Writing course, students will learn ways to get their creative juices flowing by completing different writing exercises such as magnetic poetry and writing with words cut from magazines. This semester course allows students to grow as writers and as human beings. It also provides an audience of approximately twenty peers, so their work is not judged, but constructively criticized. Students will be expected to read professional examples of writing as well as articles and essays about the craft of writing. Students will be expected to write daily so they can improve their work and so they can culminate a final portfolio that contains a variety of poetry, fiction stories, and perhaps nonfiction stories. Students will also be expected to share their pieces with the class on a regular basis, and will gain helpful feedback through oral presentations and small writing groups. They will also have the opportunity for their own work to be shown in Stroudsburg’s literary magazine, Parallels.

## **1357 PUBLIC SPEAKING, RHETORIC AND DEBATE(s)**

**Grades 10 - 12**

**Credit: 0.50**

This course is designed for the student who wishes to improve his/her oral communication skills. The student will be given practical experience in many different forms of public speaking such as informal discussion, extemporaneous and impromptu speaking, and informative, persuasive and demonstrative presentations. Additionally, students will participate in a debate. Also emphasized will be nonverbal communication and the ethical issues of public communication. Speeches are required and students should expect to be videotaped for class instruction.

## **1358 DRAMA 1 (s)**

**Grades 10 - 12**

**Credit: 0.50**

In this elective course, students will not just read and discuss drama, but become a part of the drama itself. All aspects of this genre will be discussed and explored and many opportunities for practical experiences will be offered. Specific plays encountered include The Glass Menagerie, The Miracle Worker, Brighton Beach Memoirs, Waiting for Godot, Rhinoceros, and Importance of Being Earnest. Writing assignments include journaling and two short writing assignments. A research project and a set or costume design project is also required. Emphasis is placed upon performance and memorization of lines is required.

**1359 DRAMA 2 (s)**  
**Grades 10 - 12**  
**Credit: 0.50**

*(Recommend: Successful completion of Drama 1)*

This elective course will immerse students into the production aspects of the theater. It presents a detailed overview of major trends in directing, casting, auditioning, producing, acting, and publicizing, as well as creating costumes, sets, lighting, and sound designs for the theater. Students will be taught techniques necessary to complete a culminating project where they will select a one act play and go through all the steps involved in directing and producing their vision.

**1810 ENGLISH 1 ESL**  
**Grades 9 - 12**  
**Credit: 1.00**

Entering level students engage in listening, speaking, reading, and writing English through an integrated language arts curriculum using Level 1 core curriculum materials for English Language Acquisition (ELA), literature, and other supplemental materials. Building both on their prior knowledge and on newly introduced material, they prepare to enter academic content classes. They become familiar with the culture and structure of an American high school and the community. Placement is made following assessment by the ESL teacher. This course may be used as one English credit. This course may be repeated.

**1820 ENGLISH 2 ESL**  
**Grades 9 - 12**  
**Credit: 1.00**

Beginning level students continue to engage in listening, speaking, reading, and writing English using Level 2 core curriculum materials for ELA, literature, and other supplemental materials. Using an integrated approach to language study, students increase their vocabulary and understanding of the structure of English. Basic Interpersonal Communication Skills (BICS) are developed and groundwork is laid for Cognitive Academic Language Proficiency (CALP). Placement in this course is made following assessment by the ESL teacher. This course may be used as one English credit. This course may be repeated.

**1830 ENGLISH 3 ESL**  
**Grades 9 - 12**  
**Credit: 1.00**

Developing level students continue to engage in listening, speaking, reading, and writing English using Level 3 core curriculum materials for ELA, literature, and other supplemental materials. Using an integrated approach to language study, students practice their listening and speaking skills and study the structure of the English language. BICS are exercised and instruction in CALPS is expanded. Placement in this course is made following assessment by the ESL teacher. This course may be used as one English credit. This course may be repeated.

**1840 ENGLISH 4 ESL**  
**Grades 9 - 12**  
**Credit: 1.00**

This top-level course is designed for students who are expanding their English language acquisition towards full proficiency. Writing portfolios are created to show proficiency in focus, content development, organization and style. Intense instruction is given in grammar, usage, spelling, and punctuation. Reading selections are modeled after state tests and are assessed through similar comprehension, interpretation, and analysis questions. Practice with multiple choice and open-ended items is included. Placement in this course is made following assessment by the ESL teacher. Students may be recommended for exit from the ESL program after meeting established criteria at the end of this course. This course may be used as one English credit. This course may be repeated.

**1800 ACADEMIC STRATEGIES ESL**  
**Grades 9 - 12**  
**Credit: 1.00**

**1801 ACADEMIC STRATEGIES ESL**  
**Grades 9 - 12**  
**Credit: 0.50**

The program is available to ESL students who have been identified as needing additional instruction and practice with basic reading, language arts skills and study skills. Development of improved study strategies, vocabulary and grammar are stressed. Students may receive help with test prep, content material and assignments. This program is individualized to meet the needs of the student. It is an elective course that does not count as an original English credit.

## Family & Consumer Science

The Family and Consumer Sciences curriculum is a relevant for all students. It links core curriculum knowledge with skills and wisdom to help students make a successful transition to self sufficiency and adulthood. The curriculum addresses skills necessary to enhance the quality of life, to improve individual and family wellness, to evaluate the quality of goods and services in meeting individual needs, and to provide awareness for their roles in influencing public policy.

\* Unless otherwise specified, all courses meet 6/6 days per cycle

**5550 THIS IS YOUR LIFE! (s)**  
**Grade 9**  
**Course meets 3/6 days per cycle**  
**Credit: 0.25**

*(Requires successful completion by all students prior to graduation)*

"This is Your Life!" explores the intertwined issues with which adults must learn to deal, in order to live satisfying and successful lives in the future. Students are provided with opportunities to be in charge of many of the ongoing facets of everyday living. The topics studied are basic to life planning and have been selected based on relevance for positive personal development for each student. Topics include financial and resource management, work and community responsibilities, child development, and the completion of a required presentation or paper using the "Career Cruising" resource.

**6211 DISCOVERING FOOD**  
**Grades 9 - 12**  
**Credit: 1.00**

This course recognizes the widespread need for improving the nutritional well-being of young men and women. It focuses on the relationship of food to health and changing lifestyles, while emphasizing the fundamental areas of nutrition, consumer skills and food preparation. Discovering Food also goes beyond these basics. It broadens students' understanding of the impact food has on their lives, the diet/health link, and career options in the food and nutrition fields. Students should have a good command of reading comprehension, be able to grasp a working understanding of fractions, be a responsible team member, be capable of and willing to function in a safe and sanitary manner, and be capable of and willing to manage time.

**6222 AMERICAN FOODS (s)**  
**Grades 10 - 12**  
**Credit: 0.50**

Students will study traditional influences on the cooking of regional American dishes and analyze those influences through recipe preparations. Students will prepare, serve, and evaluate a wide variety of dishes typical to many regions of the United States. The history of American foods and their preparation will be presented.

**6223 FOREIGN FOODS (s)**  
**Grades 10 - 12**  
**Credit: 0.50**

Foreign Foods is designed to introduce students to various cuisines of the world. The student will prepare, serve, and evaluate a wide variety of dishes characteristic to various cultures or regions of the world while discussing typical foods, ingredients and cooking techniques.

**6224 CHILD STUDY/PARENTING (s)**  
**Grades 10 - 12**  
**Credit: 0.50**

This course is intended to help teenagers understand children's behavior and development, and an adult's role in guiding children. Also included are topics concerning pregnancy management and the birth process. Child Study/Parenting is an excellent course for students who are interested in pursuing a child oriented career or who would like to be parents themselves one day. Students learn infant care by taking home a computerized baby simulator.

**6225 THE WONDER YEARS: EXPLORING EARLY CHILDHOOD EDUCATION (s)**

**Grades 10 - 12**  
**Credit: 0.50**

*(Recommend: Successful completion of Child Study/Parenting)*

Success in working with children requires an understanding of physical, intellectual, social and emotional characteristics of young children. This class will enable students to plan educational activities that are developmentally appropriate. It will provide students with the opportunity to interact with and present their ideas to children in a preschool or classroom setting. They will learn techniques for keeping children safe and healthy and to promote experiences that build children's self esteem and enthusiasm for learning. This course is recommended for anyone considering a career in early childhood or elementary education.

**6226 INTERIOR DESIGN (s)**  
**Grades 10 - 12**  
**Credit: 0.50**

This course introduces fundamental design concepts to the study and practice of Interior Design. Historical connections to modern architecture, reading and drafting floor plans, elements and principles of design, furniture construction and style are selected topics. Students will apply the design process to making the best functional and aesthetic use of space while expressing their own individuality.

## Health & Physical Education

Health Education courses are required in grades nine, eleven and twelve. Students must earn a passing grade to meet graduation requirements. Health Education courses provide a basis of knowledge about health and wellness that leads to the development of skills, attitudes, and behaviors conducive to overall physical, emotional, social and mental well-being. Ultimately, health education promotes responsible decision making that contributes to a healthy lifestyle. Physical education provides a coeducational, comprehensive program of lifetime and team sports, and physical fitness activities. Students must earn a passing grade in Physical Education each year to meet graduation requirements. Fitness tests are mandatory and will be measured according to the Presidential Physical Fitness Program standards.

\* Unless otherwise specified, all courses meet 6/6 days per cycle

**5710 INTRODUCTION TO ALLIED HEALTH**  
**Grades 9 - 12**  
**Credit: 1.00**

This course provides a foundation for students who are interested in Allied Health careers. Career clusters explored include rehabilitation, laboratory science, nursing, medical, dental, animal, mental and social health, imaging, and emergency health. Students will explore a variety of career opportunities, learn about technical skills used in the Allied Health professions, visit local medical clinics, and participate in numerous hands-on activities related to the health field. Upon successful completion of this course, students may choose to pursue advanced courses designed to prepare them for careers in the Allied Health field.

**5001 PHYSICAL EDUCATION 9 (s)**  
**Grade 9**  
**Course meets 3/6 days per cycle**  
**Credit: 0.25**

Physical Education is a comprehensive program that includes lifetime, team, and fitness activities. Physical Education is required every year and a passing grade must be achieved in order to fulfill graduation requirements. The ninth grade course emphasizes personal fitness and growth. Fitness tests are mandatory and will be measured according to the Presidential Physical Fitness Program standards.

**5001 PHYSICAL EDUCATION 10-12 (s)**  
**Grades 10 - 12**  
**Course meets 3/6 days per cycle**  
**Credit: 0.25**

This course includes team and lifetime sports activities emphasizing skill development and application to promote lifetime wellness. Adventure education, a challenge-by-choice component, is used to promote the development of skills through group activities. Lifetime activities include archery, golf, tennis, table tennis, badminton, aerobic fitness, weight training, and low-impact activities such as power walking, aerobics and line dancing. Team options include softball, volleyball, ultimate Frisbee, and court hockey. Health related fitness activities, with emphasis on muscular strength and endurance, flexibility, and cardiovascular fitness, are incorporated in this program. Fitness tests are mandatory and will be measured according to the Presidential Physical Fitness Program standards.

**5002 ADVANCED PHYSICAL EDUCATION 11-12 (s)**  
**Grades 11 - 12**  
**Course meets 3/6 days per cycle**  
**Credit: 0.25**

*(Recommendation necessary from PE department)*

This course is designed for students who possess advanced skill levels. A selection of lifetime and team sports activities is provided in a more competitive environment. Lifetime activities include archery, golf, tennis, table tennis, badminton, weight training, and wall climbing. Team options include softball, volleyball, ultimate Frisbee, court hockey, soccer, flag football, and basketball. A challenge-by-choice strategy is used in the adventure education component. Health related fitness activities, with emphasis on muscular strength and endurance, flexibility, and cardiovascular fitness, are incorporated in this program. Fitness tests are mandatory and will be measured according to the Presidential Physical Fitness Program standards.

**5003 LOW IMPACT PHYSICAL EDUCATION (s)**  
**Grades 10 - 12**  
**Course meets 3/6 days per cycle**  
**Credit: 0.25**

This course combines lifetime activities and health related fitness components emphasizing lifelong wellness. Adventure education, a challenge-by-choice component, is used to promote the development of skills through group activities. Lifetime activities include archery, golf, tennis, table tennis, badminton, aerobics, weight training, power walking, interval training, line dancing and wall climbing. Health related fitness activities, with emphasis on muscular strength and endurance, flexibility, and cardiovascular fitness, are incorporated in this program. Fitness tests are mandatory and will be measured according to the Presidential Physical Fitness Program standards.

**5759 ADVANCED FITNESS (s)**  
**Grades 10 - 12**  
**Credit: 0.50 or 1.00**

*(Recommendation necessary from PE department. This course may be used to fulfill the annual required PE credit.)*

This course is available for any student who has, or will participate, on a Stroudsburg sports team. The Advanced Fitness course will help produce stronger, faster, and leaner student athletes. Day to day exercise, weight training, and cardiovascular development will allow students to maximize their athletic potential. Health related fitness activities, with emphasis on muscular strength and endurance, flexibility,

and cardiovascular fitness, are incorporated in the program. Students will learn the importance of participation in a lifelong sport while achieving the health benefits of physical activity. Fitness tests are mandatory and will be measured according to the Presidential Physical Fitness Program standards.

**5350 HEALTH 11(s)**  
**Grade 11**  
**Course meets 3/6 days per cycle**  
**Credit: 0.25**

This is a mandatory eleventh grade class. Students must earn a passing grade to meet graduation requirements. Health 11 includes the study of mental and emotional health, family and social health, personal health and physical activity, alcohol, tobacco and other drugs.

**5755 FIRST AID/ATHLETIC TRAINING 1(s)**  
**Grades 10 – 12**  
**Credit: 0.50**

This course is designed for students who are interested in learning first aid, anatomy, muscle mechanics, and the prevention and care of athletic injuries to the ankle, knee, shoulder, and neck. Students will complete first aid and CPR/AED instruction and obtain certification in these areas. This course is applicable to students interested in pursuing a career with Allied Health or in the medical field such as physical therapist, nurse, athletic trainer, EMT, etc.

**5756 FIRST AID/ATHLETIC TRAINING 2(s)**  
**Grades 10 - 12**  
**Credit: 0.50**

*(Recommend: Successful completion of First Aid/Athletic Training 1)*

This semester course offers students the opportunity to learn prevention, care and rehabilitation of athletic injuries to the hand, wrist, elbow, thorax, and foot. Human anatomy, exercise physiology, kinesiology, and the principles of strength development are included in the curriculum. Presented in an applied format, students can explore the curriculum in practical laboratory experiences.

**5758 HEALTHY LIFESTYLES**  
**Grades 10 - 12**  
**Credit: 0.50**

This course is designed to improve quality of life through physical fitness and healthy lifestyle choices. It promotes a safe environment that encourages diversity amongst its members. Healthy Lifestyles provides a safe and healthy atmosphere for all students to sample new activities. Students will have the opportunity to engage in healthy behaviors which will enable them to make healthy lifestyle changes.

## Mathematics

The Math department offers a variety of courses to meet the needs of all students. Advanced Placement(AP)/Honors(H) courses are designed for students with exceptional mathematical ability and work ethic. College Preparatory(CP) classes are designed for students who wish to continue their studies beyond high school. The remaining math courses are designed for students whose academic strengths lie in areas other than mathematics with extended time courses being reserved for students who continue to struggle with basic math concepts.

Each student's recommended mathematics course sequence strongly encourages two years of Algebra and a Geometry course prior to his or her senior year. The reasons for this design are many, but the most important is that student success, beyond high school, has been directly linked to a student's successful completion of Algebra I and Algebra II course work. In order to ensure success on the ACT, Algebra I Keystone Exam, ASVAB, SAT and other exams, students need to be as well prepared as possible. The courses offered are aligned to state standards, with a focus on the state anchors/eligible content. It is highly recommended that each student has his/her own scientific calculator to use on a daily basis.

Mathematics is a cumulative discipline within each course as well as from one grade level to the next. Therefore, it is expected that each student, in any mathematics course, complete all work assigned by the teacher. This will include trying to complete all homework assignments which are given almost daily in most courses. It will also include being responsible for making up any missed work due to class absences in a timely fashion.

Starting with the graduating class of 2019, ALL students are required to take the Algebra 1 Keystone Exam and score proficient to graduate. Students not scoring proficient may (at the district's discretion) be scheduled in a remediation course in lieu of an elective course.

\* Unless otherwise specified, all courses meet 6/6 days per cycle

**3140 ALGEBRA 1A (NCAA - .5 credit)**  
**Grade 9**  
**Course meets 9/6 days per cycle.**  
**Credit: 1.50**

**3141 ALGEBRA 1A (NCAA - .5 credit)**  
**Grade 9**  
**Course meets 12/6 days per cycle.**  
**Credit: 2.0**

This course is designed to cover the first half of the Algebra 1 curriculum. This will include working with variable expressions, solving and graphing linear equations and inequalities, and an introduction to polynomials. Integrated throughout the course will be the reinforcement of the fundamental operations of rational numbers. Calculators and computer software will be used at appropriate places in this course of study and a scientific calculator is recommended.

The class will meet everyday per six-day cycle, but as a double period three days per the six-day cycle (3140) or a double period everyday (3141). Students successfully completing one of these courses will be awarded additional credit. 1.0 credit will be used to fulfill the required math course for graduation, and all additional credit(s) will be used to fulfill an elective credit.

**3230 ALGEBRA 1B (NCAA - .5 credit)**  
**Grade 10**  
**Credit: 1.00**

**3240 ALGEBRA 1B (NCAA - .5 credit)**  
**Grade 10**  
**Course meets 9/6 days per cycle.**  
**Credit: 1.50**

*(Prerequisite: Algebra 1A)*

*(All students taking this course will take the Algebra 1 Keystone Exam in the Spring.)*

This course is designed to cover the second half of the Algebra 1 curriculum. This will include work with linear and quadratic expressions, factoring polynomials, solving equations and inequalities in both one and two variables, solving simple quadratic equations, graphing linear equations and systems of simultaneous equations. Related skills, calculator use, and concept development will be integrated throughout the course. A scientific calculator is recommended.

If a student is recommended to complete the 3240 course of Algebra 1B, the class will meet everyday per six-day cycle, but as a double period three days per the six-day cycle. Students successfully completing this course will be awarded 1.50 credits. 1.0 credit will be used to fulfill the required math course for graduation, and .50 credit will be used to fulfill elective credit.

**3450 ALGEBRA 1 Keystone**  
**Grades 10-12**  
**Credit: .25**

This course is designed to provide explicit instruction to students based on an area(s) of deficiency as defined by the student's previous score on the State required Algebra 1 Keystone Exam. Students taking this course have not met the State graduation requirement of proficiency on the Algebra 1 Keystone Exam.

**3120 ALGEBRA 1 – CP (NCAA)**  
**Grade 9**  
**Credit: 1.00**

**33121 ALGEBRA 1 – CP (NCAA)****Grade 9****Course meets 9/6 days per cycle.****Credit: 1.50**

*(Prerequisite: Pre-Algebra. Any student who is not proficient on the PSSAs but is recommended for Algebra 1 CP will be required to take Algebra 1 9/6.)*

*(All students taking this course will take the Algebra 1 Keystone Exam in the Spring.)*

The emphasis of this course is on working with linear and quadratic expressions, factoring polynomials, solving equations and inequalities in both one and two variables, solving simple quadratic equations, graphing linear equations and systems of simultaneous equations, and writing equations given applied descriptions, graphs, or two points. Related skills and concept development will be integrated throughout the course. Calculators and computer software will be used in appropriate places in this course of study and a scientific calculator is highly recommended.

Algebra 1 - CP (3121) will meet everyday per six-day cycle, but as a double period three days per the six-day cycle. Students successfully completing this course will be awarded 1.50 credits. 1.0 credit will be used to fulfill the required math course for graduation, and .50 credit will be used to fulfill elective credit.

**33430 ALGEBRA 2****Grade 11****Credit: 1.00**

*(Prerequisite: Algebra 1B or Algebra 1 CP)*

**33440 ALGEBRA 2****Grade 11****Course meets 9/6 days per cycle****Credit: 1.50**

*(Prerequisite: Algebra 1B and Geometry, or Algebra 1)*

Students will review Algebra I skills, work with linear inequalities and functions, quadratic functions, non-linear relations, systems of equations, and probability and statistics. Use of calculators, computer software and practical applications will be integrated throughout the course and a scientific calculator is recommended.

If a student is recommended to complete the 3440 course of Algebra 2, the class will meet everyday per six-day cycle, but as a double period three days per the six-day cycle. Students successfully completing this course will be awarded 1.50 credits. 1.0 credit will be used to fulfill the required math course for graduation, and .50 credit will be used to fulfill elective credit.

**33220 ALGEBRA 2 – CP (NCAA)****Grade 10****Credit: 1.00**

*(Prerequisite: Algebra 1CP or Algebra 1B with teacher recommendation)*

This course is a continuation of Algebra 1. The emphasis is on the Algebra 1 fundamentals, first degree equations and inequalities in two variables, solving quadratic equations, graphing quadratic functions, complex numbers, working with radical and rational expressions. A scientific calculator is highly recommended.

The final course grade will be a major consideration for placement in Algebra 3, Discrete, or Transition.

**33110 ALGEBRA 2 - H (NCAA)****Grades 9 - 10****Credit: 1.00**

*(Prerequisite: Algebra 1)*

*(NOTE: This is a typical ninth grade honors level course leading an advanced student to AP Calculus AB in his/her senior year.)*

This course is a continuation of Algebra 1. The emphasis is on systems of linear equations and inequalities, equations in three variables, solving quadratic equations by various methods, graphing quadratic functions, complex numbers, working with radical and rational expressions. Additional topics include logarithms, linear programming, graphing conic sections and the use of the graphing calculator. Computer software will be used at appropriate places in this course of study and a scientific calculator is highly recommended.

**3330 GEOMETRY****Grade 12****Credit: 1.00****3340 GEOMETRY****Grade 12****Course meets 9/6 days per cycle.****Credit: 1.50**

*(Prerequisite: Algebra 2)*

Students will learn about lines, planes, and shapes and all their properties. Problems with congruence and similarity of figures, geometric equalities and inequalities, simple logic, measures of segments and angles, area, and volume are the topics that are emphasized. Integrated throughout the course will be work with fundamental operations on whole numbers, fractions, and decimals. The use of calculators and computer software will be used where appropriate and a scientific calculator is recommended.

If a student is recommended to complete the 3340 course of Geometry, the class will meet everyday per six-day cycle, but as a double period three days per the six-day cycle. Students successfully completing this course will be awarded 1.50 credits. 1.0 credit will be used to fulfill the required math course for graduation, and .50 credit will be used to fulfill elective credit.

**3320 GEOMETRY - CP (NCAA)****Grades 11****Credit: 1.00**

*(Prerequisite: Algebra 2)*

This course is an introduction to geometry with an emphasis on definitions, theorems, and postulates dealing with lines and planes. Proofs written in various styles, congruence and similarity of figures, basic triangle trigonometry, geometric equalities and inequalities, simple logic, constructions of geometric figures, and measurement of segments, angles, area, and volume are emphasized. Computer software will be used in appropriate places in this course of study and a scientific calculator is highly recommended.

**3210 GEOMETRY – H (NCAA)****Grades 10 - 11****Credit: 1.00**

*(Prerequisite: Algebra 1 and/or Algebra 2 - depending upon prior course sequence)*

This course is an introduction to Geometry with an emphasis on definitions, theorems, and postulates dealing with lines and planes. Proofs written in various styles, congruence and similarity of figures, basic triangle trigonometry, geometric equalities and inequalities, simple logic, constructions of geometric figures, and measurement of segments, angles, area, and volume are emphasized. Concepts of vectors, dilations, and transformational geometry will also be studied. Computer software will be used at appropriate places in this course of study and a scientific calculator is highly recommended.

**3423 FUNDAMENTALS OF MATHEMATICS****Grade 12****Credit: 1.00**

**(This course is intended ONLY for a student where the sequence of courses prevents them from doubling up in math in grades 11 or 12 and no other course is available to them. This course may be used to fulfill the math graduation requirement only if the student has already enrolled in a geometry or algebra course. Guidance/administration recommendation required.) A scientific calculator is required.**

This course reviews basic math concepts with fractions, decimals and percents that will focus on calculator skills. Pre-Algebra, basic Algebra and basic Geometry concepts will be studied throughout the year.

**3422 TRANSITION TO COLLEGE MATHEMATICS – CP (NCAA)****Grade 12****Credit: 1.00**

*(Prerequisites: Algebra 1, Algebra 2, Geometry and teacher/guidance/administrative recommendation are required. A scientific calculator is required)*

This is a senior only course which reviews Algebra and calculator basics, including



fractions and exponential notation, as well as ratio, proportions and percents as they relate to solving percent word problems. Other topics include: measurement and problem solving with two and three dimensional geometric objects; applications of percent, including simple and compound interest, credit card usage, formulas for purchasing a home, etc.; sets and logic; probability and statistics; review of solving systems of linear equations and inequalities by various methods; geometry review, including right triangle and introductory trigonometry.

**3421 DISCRETE MATHEMATICS & TRIGONOMETRY – CP (NCAA)**

**Grade 12**  
**Credit: 1.00**

*(Prerequisites: Algebra 1, Geometry and Algebra 2. A scientific calculator is required.)*

This course emphasizes solving systems of equations in two and three variables, linear programming, matrix operations, and arithmetic and geometric sequences and series. Probability and statistics, right triangle trigonometry, trigonometric functions, and trigonometric identities will also be studied. Calculators will be used throughout the course.

**3420 ALGEBRA 3 & TRIGONOMETRY – CP (NCAA)**

**Grades 12**  
**Credit: 1.00**

*(Prerequisites: Algebra 2-CP and Geometry-CP. A scientific calculator is required.)*

This is a continuation of Algebra 2 (and Geometry), requiring a strong Algebra 2 background, and emphasizes advanced algebra and graphing skills with polynomial functions, exponential, logarithmic, and trigonometric functions. Nearly one half of the year will be spent on Trigonometry. Use of graphing calculators and computer software will be integrated throughout the course.

**3310 PRE-CALCULUS – H (NCAA)**

**Grades 11 - 12**  
**Credit: 1.00**

*(Prerequisites: Algebra 2 H or Algebra 3 & Trigonometry and Geometry-H. A scientific calculator is required, but a graphing calculator is preferred)*

This is a continuation of Algebra 2H and Geometry H emphasizing advanced Algebra skills, exponential, polynomial, rational, logarithmic functions, and conic sections. Nearly one half of the year will be spent on Trigonometry. An introduction to Calculus concepts will be studied appropriately. Solving equations in three variables with matrix methods will be included in this course. Use of graphing calculators and computer software will be integrated throughout the course. As a preparatory course for AP Calculus AB, students should expect to spend a minimum of 30-45 minutes per day on homework. Students should be highly dedicated and self-motivated.

**3410 STATISTICS & PROBABILITY - H (NCAA)**

**Grade 12**  
**Credit: 1.00**

*(Prerequisite: Pre-Calculus-H; a TI graphing calculator is required.)*

This course will emphasize an introduction to statistics and introduce students to the methods of both descriptive and inferential statistics. Topics will include methods of population sampling, an introduction to probability and the study of both discrete and continuous random variables, especially the Normal distribution and the ideas of the Central Limit Theorem. Both numeric and graphical presentations of data and correlation and regression analysis for descriptive statistics will be practiced. The methods of inferential statistics studied will introduce the concepts of confidence intervals and hypotheses testing. The use of TI83/84 graphing calculator and computer software such as EXCEL will be integrated throughout the course.

**3400 AP CALCULUS AB (NCAA)**

**Grade 12**  
**Credit: 1.00**

*(Prerequisite: Pre-Calculus-H)*

This course will include fundamental calculus skills needed for the AP Calculus AB Exam given in May. Topics will include differential calculus rules, along with applied problems on related rates and curve sketching, integration rules, finding the area under a curve, applied problems of integration, finding volumes of solids

of revolution, and other integration rules and techniques. Graphing calculators and computer software, when available, will be integrated throughout the course. A scientific calculator is required, but a graphing calculator is preferred. This course requires the student to have a solid background in Pre-Calculus. Students should expect to spend a minimum of 45-60 minutes per day on homework. Discussion and demonstration of the solutions of assigned problems are expected regularly for this course.

**3401 AP CALCULUS BC (NCAA)**

**Grade 12**  
**Credit: 1.00**

*(Prerequisite: AP Calculus AB)*

This course is a continuation of AP Calculus AB and is only offered to the most exceptional student who has very successfully completed AP Calculus AB during their junior year. The course will include fundamental calculus skills needed for the AP Calculus BC Exam given in May. Topics will include review of derivative and integral formulas, exploring integral applications and working with parametric equations and polar coordinates, sequences and infinite series, vector functions and elementary differential equations. A graphing calculator is required.

## Music

The Music Department offers full academic credit for Concert Band, Concert Choir, and String Orchestra. Semester credit is available for Beginning Music Theory and Piano/Guitar. In addition, honors credit is available to recommended seniors participating in Concert Band 2, Orchestra 2, Concert Choir as well as recommended juniors and seniors taking Advanced Placement Music Theory. Any of these courses will help fulfill the arts/humanities requirements for graduation.

\* Unless otherwise specified, all courses meet 6/6 days per cycle

**6309 9TH GRADE BAND**

**Grade 9**  
**Credit: 1.00**

*(Recommend: 4 years of ensemble experience or the equivalent and recommendation of the Band Director(s))*

Membership in the 9th Grade Band is obtained through audition by interested musicians having fifth through eighth grade band experience, or the equivalent, as a prerequisite. In addition, membership in 9th Grade Band is maintained by recommendation of the band director, based on the level of performance of required fundamentals and music. Participation in this course during grades 9 is a necessary eligibility requirement in order to be considered for Honors Concert Band during your senior year.

**6310 CONCERT BAND 1**

**Grades 10**  
**Credit: 1.00**

*(Recommend: 4 years of ensemble experience or the equivalent and recommendation of the Band Director(s))*

Membership in Concert Band 1 is obtained through audition by interested musicians having fifth through ninth grade band experience, or the equivalent, as a prerequisite. In addition, membership in Concert Band 1 is maintained by recommendation of the band director(s), based on the level of performance of required fundamentals and music. Participation in this course during grade 10 is a necessary eligibility requirement in order to be considered for Honors Concert Band during your senior year.

**6311 CONCERT BAND 2**

**Grades 11 - 12**  
**Credit: 1.00**

*(Recommend: Concert Band 1 and recommendation of the Band Director(s))*

Membership in Concert Band 2 is obtained through audition by interested musicians having fifth through tenth grade band experience, or the equivalent, as a prerequisite. In addition, membership in Concert Band 2 is maintained by

recommendation of the band director(s), based on the level of performance of required fundamentals and music. Concert Band 2 is the culmination of the Band Program for the District and requires students to perform at the highest level. Participation in this course during grade 11 is a necessary eligibility requirement in order to be considered for Honors Concert Band during your senior year.

**6312 CONCERT BAND 2 – H**

**Grade 12**

**Credit: 1.00**

Honors credit for Concert Band 2 provides an enrichment program for students. This enrichment program will include preparation and performance of solo and small ensemble literature, successful preparation and performance at district band auditions, performance of an end of year honors recital along with an end of year self-directed project.

**6330 9TH GRADE ORCHESTRA**

**Grades 9**

**Credit: 1.00**

*(Recommend: 4 years of ensemble experience or the equivalent and recommendation of the Orchestra Director)*

Membership in the 9th Grade Orchestra will be determined by audition and/or recommendation of the Orchestra Director. As a member of the Orchestra, each student will receive one lesson and attend six ensemble rehearsals during the six-day cycle. There will be a musical performance evaluation for all Orchestra members at the end of each quarter and/or semester. Participation in this course during Grade 9 is a necessary eligibility requirement in order to be considered for Honors Orchestra during your senior year.

**6331 ORCHESTRA 1**

**Grade 10**

**Credit: 1.00**

*(Recommend: 5 years of ensemble experience or the equivalent and recommendation of the Orchestra Director)*

Membership in Orchestra 1 is obtained through audition by interested musicians having fifth through ninth grade orchestra experience, or the equivalent, as a recommendation. In addition, membership in Orchestra 1 is maintained by recommendation of the orchestra director, based on the level of performance of required fundamentals and music. Participation in this course during grade 10 is a necessary eligibility requirement in order to be considered for Honors Orchestra during your senior year.

**6332 ORCHESTRA 2**

**Grades 11 - 12**

**Credit: 1.00**

*(Recommend: Orchestra 1 and recommendation of the Orchestra Director)*

Membership in Orchestra 2 is obtained upon successful completion of the requirements of Orchestra 1, or the equivalent, and also by recommendation of the Orchestra Director. In addition, membership in Orchestra 2 is maintained by recommendation of the Orchestra Director, based on the level of performance of required fundamentals and music. Participation in this course during grade 11 is a necessary eligibility requirement in order to be considered for Honors Orchestra during your senior year.

**6333 ORCHESTRA 2 - H**

**Grade 12**

**Credit: 1.00**

*(Recommend: 6 years of ensemble experience or the equivalent, recommendation of the Orchestra Director, completion of the process of PMEA District Orchestra Audition.)*

Honors credit for Orchestra 2 provides an enrichment program for students who have enrolled in Orchestra 2. This enrichment program will include preparation and performance of solo and small ensemble literature, successful preparation and performance at PMEA district orchestra auditions and performance at an end-of-year honors recital and an end of year self-directed project.

**6320 9TH GRADE CONCERT CHOIR**

**Grade 9**

**Credit: 1.00**

9th Grade Concert Choir is open to all students who enjoy singing and would like to

develop both their singing skills and their musicianship. A variety of music will be learned as well as techniques of vocal production and music reading. This ensemble will present three concerts during the year. Members are eligible to audition for several extracurricular ensembles and activities, including Show Choir, Small Group, Select Choir, and the district musical. Advanced singers are also eligible to audition for PMEA District 10 Chorus. Students should see the director for more information. Participation in this course is required for Honors Chorus eligibility in 12th grade.

**6321 CONCERT CHOIR**

**Grades 10 - 12**

**Credit: 1.00**

*(Recommend: A minimum of two years choral ensemble experience in a choral program, or approval of the choir director)*

Concert Choir will be a multi-graded choral experience. Students should have a minimum of two years of choral ensemble experience to participate in this choir. A variety of music will be learned along with techniques of vocal production and music reading. This ensemble will present three to four concerts each year. There will be additional opportunities for community performances and small ensemble experiences. Advanced singers are eligible for participation in district, regional and state festivals. The Chorale and Show Choir provide extra-curricular opportunities for members of the Concert Choir who are selected by audition in the spring of each year. Students should see the choir director for more information. Participation in this course during grades 10-11 is a requirement to be considered for Honors Concert Choir during the senior year.

**6322 CONCERT CHOIR (s)**

**Grades 10 - 12**

**Credit: 0.50**

*(Prerequisite: A minimum of two years choral ensemble experience in a choral program, or approval of the choir director)*

This semester course is designed for students with no room in their schedule for full-year Concert Choir. Students will meet with the regular full-year Concert Choir and will participate in all choral activities during the scheduled semester.

**6323 CONCERT CHOIR – H**

**Grade 12**

**Credit: 1.00**

Honors credit provides an enrichment program for students who are enrolled in Concert Choir. This enrichment program includes successful preparation and performance of the PMEA District 10 Chorus audition piece, preparation and written analysis of solo vocal repertoire, research in the area of vocal health, and preparation of an appropriate vocal solo for performance in the annual Music Department Honors Recital.

**6341 BEGINNING PIANO KEYBOARD, ACOUSTIC GUITAR (s)**

**Grades 10 - 12**

**Credit: 0.50**

This music course is designed for the student interested in current musical trends. A great emphasis is placed on learning to play piano keyboards, and acoustic guitar. No previous musical experience is required for this class, but a level of music reading will be accomplished by the end of the semester.

**6340 BEGINNING MUSIC THEORY - CP (s)**

**Grades 10 - 12**

**Credit: 0.50**

This music course is intended for the student who would like to be able to read music better, understand key signatures, chords, rhythm reading, and other aspects of music theory and apply it to the student's own instrument. Students will also be exposed to a number of sight reading experiences to strengthen their musical ability.

**6350 AP MUSIC THEORY**

**Grades 10 - 12**

**Credit: 1.00**

This one year course is designed expressly for the serious student who wishes to pursue music or musical performance on the college or professional level. The course content includes history, theory, analysis, composition, conducting,

performance techniques and career orientation. Heavy emphasis in this advanced placement curriculum focuses on music theory and ear training (aural skills).

## Science

The Science Department strongly encourages students to take more than one science course per year in grades 9 through 12. A variety of science classes and electives allows students to customize their science program depending on their intended course of study in college.

The goal of the science department at Stroudsburg Senior High School is to give every student the opportunity to gain background knowledge in both the biological and physical sciences. This will allow students to succeed at the collegiate level or chosen career path, gain a broad understanding of the world around them, and become citizens able to make well informed decisions about societal and technological issues.

Starting with the graduating class of 2019, ALL students are required to take the Biology Keystone Exam and score proficient to graduate. Students not scoring proficient may (at the district's discretion) be scheduled in a remediation course in lieu of an elective course.

Note: All students taking Advanced Placement or Honors courses may be expected to complete required summer work. See course instructor for details.

\* Unless otherwise specified, all courses meet 6/6 days per cycle

### **4110 INTRO TO PHYSICAL SCIENCE 9 - H (NCAA)** **Grade 9** **Credit: 1.00**

This course is designed to serve as a solid foundation for the study of the Physical Sciences. Topics to be investigated are phases of matter, force and motion, work, simple machines, conservation and transformation of energy, and electricity. General chemistry concepts include states of matter, the Periodic Table, chemical reactions, balancing chemical equations, and the Law of Conservation of mass.

The role of the student in this course is to develop inquiry and problem solving skills within the context of scientific investigation. Students will apply what they learn to everyday situations by conducting investigations and formulating and testing their own hypotheses. Recommendation: Math placement - Algebra1-CP or better (may be taken concurrently).

### **4120 INTRO TO PHYSICAL SCIENCE 9 - CP (NCAA)** **Grade 9** **Credit: 1.00**

This course explores the physical world around us. The interaction of matter and energy in the physical world is the foundation for this hands-on, discovery-based course. Extensive lab work, student centered activities, and real life applications will be the focus throughout this course. This course is designed to prepare students with fundamental skills such as measuring, data collection and manipulation, observing, and application of the scientific method. Students will explore the how and why of general science with the emphasis that science is a process, not just learned facts. Recommendation: Math placement - Algebra 1-CP or better (may be taken concurrently).

### **4130 KEYSTONE CELL BIOLOGY & ECOSYSTEMS** **Grade: 9 (10-11 as needed)** **Credit: 1.00**

As part one of two sequential Biology courses, curriculum for Keystone Cell Biology & Ecosystems meets or exceeds state standards, with focus on the PA Keystone exam standards and eligible content. Students will understand the goals of science and the importance of studying life. A study of the interactions of life within ecosystems, populations, resources and human interactions will be a major focus of the course. Students will learn about the chemical basis of life, cell structure and function, and homeostasis. Lab work and the use of technology are presented to reinforce concepts taught in class.

### **4150 INTRODUCTION TO ECOLOGY** **Grade 9** **Credit: 0.50**

This course will cover some of the major topics in the field of ecology and environmental science. Students learning will be centered on information dealing with the biosphere, ecosystems and communities, populations and humans in the biosphere. The course is designed to fulfill biology standards not covered in the biology curriculum in Stroudsburg and is aimed at ensuring proficiency on the Keystone exam in biology while at the same time introducing concepts that will be covered in a more detailed elective course at the high school.

### **4154 MARINE SCIENCE (s)** **Grade 9** **Credit: 0.50**

This class examines the diversity of marine organisms from plankton to predatory sharks to the largest whales, from the deepest trench to the shore. Students will explore the special adaptations that allow organisms to thrive and create the complex web of ocean life. Topics include animal characteristics, plankton, sponges, cnidarians, flatworms, roundworms, arthropods, annelids, mollusks, echinoderms, the three classes of fish, and marine mammals. Students will perform many laboratory activities such as utilization of microscopes, dissections of various marine organisms, and identification of preserved specimens.

### **5651 SURVEY OF ECOLOGICAL ISSUES (s)** **Grade 10** **Course meets 3/6 days per cycle** **Credit: 0.25**

This course prepares students to make informed decisions about resources and systems in the natural world. Topics include watersheds and wetlands, renewable and nonrenewable resources, environmental health, agriculture and society, ecosystems and their interactions, endangered species, and humans and the environment.

### **4210 BIOLOGY - H (NCAA)** **Grades 9 - 10** **Credit: 1.50** **Course meets 9/6 days per cycle**

*(Recommend: Physical Science (if not taken concurrently).)*

*(All students taking this course will take the Biology Keystone Exam in the Spring.)*

The honors biology curriculum parallels the course description for biology as listed below, with several exceptions. Student taking the honors curriculum should expect a more rigorous and in-depth approach to biology to help prepare them for more advanced classes in biology such as Honors Anatomy and Physiology or AP Biology. Several lab activities not found in the general biology curriculum are performed. A research paper or project may be required.

### **4220 BIOLOGY - CP (NCAA)** **Grade 10** **Credit: 1.50** **Course meets 9/6 days per cycle**

*(Recommend: Physical Science (if not taken concurrently).)*

The 10th grade biology curriculum meets or exceeds state-mandated standards as dictated by the Keystone Exam for biology. Students will be introduced to the characteristics all life has. Study will continue with biochemistry and an in-depth study of the cell, homeostasis, and cell division. Cellular respiration and photosynthesis are compared and contrasted as important cell activities. Current cutting edge topics and bioethical issues such as stem cells, cloning, and cancer will be touched upon. Studies will continue with a detailed understanding of DNA, basic genetics, human genetics, and biotechnology and its impact on society. These units lead into a study of evolution where natural selection and the theory of evolution are introduced. Lab work is presented to reinforce concepts taught in class. Review and preparation for the Keystone Biology exam will be reinforced through the entire class and directly before the test.

**4230 KEYSTONE BIOLOGY & UNITY OF LIFE****Grade 10 (11-12 as needed)****Credit: 1.00**

(Recommend: Successful completion of Keystone Cell Biology and Ecosystems)  
 (All students taking this course will take the Biology Keystone Exam in the Spring.)  
 Students will review biochemistry and cells as in the Keystone Cell Biology and Ecosystems course. New material will begin by focusing on homeostasis and cell division. Cellular respiration and photosynthesis are compared and contrasted as important cell activities. Current cutting edge topics and bioethical issues such as stem cells, cloning, and cancer will be touched upon. Studies will continue with a detailed understanding of DNA, basic genetics, human genetics, and biotechnology and its impact on society. These units lead into a study of evolution where natural selection and the theory of evolution are introduced. Lab work is presented to reinforce concepts taught in class. Review and preparation for the Keystone Biology exam will be reinforced through the entire class and directly before the test.

**4250 BIOLOGY KEYSTONE****Grades 10-12****Credit: .25**

This course is designed to provide explicit instruction to students based on an area(s) of deficiency as defined by the student's previous score on the State required Biology Keystone Exam. Students taking this course have not met the State graduation requirement of proficiency on the Biology Keystone Exam.

**4310 CHEMISTRY 1 - H (L) (NCAA)****Grades 10 - 12****Course meets 7/6 days per cycle****Credit: 1.167**

(Recommend: Successful completion of Physical Science and Biology or taking Honors Biology concurrently. In place of Algebra 2 CP, students may take Algebra 2 H concurrently with this course.)

The Chemistry I Honors course is designed to be the first half of the Advanced Placement Chemistry curriculum as set forth by the College Board. This is a college level chemistry course and is designed for those students who plan on majoring in science or a related area. This serves as a prerequisite for AP Chemistry. The curriculum includes in-depth study of the following topics: matter, classification and description, measurement, mathematical concepts applicable to chemistry, atomic theory and structure, chemical formulas and nomenclature, mass and energy relationships in reactions, reactions in aqueous media, gases, thermochemistry, quantum theory, and periodic relationships of the elements. This course places extra emphasis on rigorous mathematical and chemical applications. Laboratory sections meet once per cycle for two consecutive periods

**4320 CHEMISTRY 1 - CP (NCAA)****Grades 10 - 12****Credit: 1.00**

(Recommend: Successful completion of Physical Science and Biology or Biology concurrent with Chemistry 1 CP, Algebra 1 CP, or taking Algebra 2 CP concurrently.)

Chemistry I is a college preparatory course that introduces chemical theories including atomic structure, quantum theory of atomic structure, chemical bonding, chemical reactions, mass and energy relationships in a chemical reaction, physical and chemical properties of gases, liquids, solids, and aqueous solution chemistry. Lab techniques and report writing skills, mathematical calculations, analysis of data, and discussion of results are emphasized. This course is designed and recommended for students planning to attend a four-year college or university. Students enrolled in this course are eligible to take Chemistry 2 CP; enrolling in AP Chemistry after this course is not recommended. Students desiring AP Chemistry should enroll in Chemistry 1 Honors.

**4330 CHEMISTRY 1****Grades 10 - 12****Credit: 1.00**

(Recommend: Successful completion Biology)

Chemistry involves the study of matter; in this course, students will examine the structure, organization, and behavior of matter as well as interactions between and changes in matter in order to better understand the physical world and the role of chemistry in everyday life.

Students will learn about major concepts in chemistry by studying atomic theory, physical and chemical properties of gases, liquids, solids, the Periodic Table, the behavior of gases, chemical bonding, aqueous solutions, and chemical reactions. Students will participate in a variety of learning activities that may include working in cooperative learning groups, completing hands-on laboratory investigations and activities, and doing research for presentations.

**4420 PHYSICS 1 – CP (L) (NCAA)****Grades 10 - 12****Course meets 7/6 days per cycle****Credit: 1.167**

(Recommend: Successful completion of Biology, Chemistry 1 (if not taken concurrently), Algebra 2-CP and taking or have taken Geometry)

This course deals with the fundamental features of the world such as time, space, motion, matter, light, electricity and radiation. Although physics is not the only science that deals with these features, all other sciences rely upon physics for their own foundation. Through laboratory experiences and classroom discussions, the student is led toward an understanding of the physical world. The classroom setting is informal and students are encouraged to discuss problems and laboratory work in small groups. Laboratory classes meet once per cycle for a double period.

**4400 PHYSICS 1 - H (L) (NCAA)****Grades 10 - 12****Course meets 7/6 days per cycle****Credit: 1.167**

(Prerequisite: Geometry, Biology, Chemistry 1 (if not taken concurrently)).

This course is similar in scope and sequence to Physics 1 CP but requires a greater proficiency in mathematics. Laboratory classes meet once per cycle for a double period. This course is designed to be the first half of the Advanced Placement Physics BC curriculum as set forth by the College Board. This is a college level physics course.

**4401 AP PHYSICS BC (L) (NCAA)****Electricity & Magnetism and Mechanics****Grade 12****Course meets 8/6 days per cycle****Credit: 1.333**

(Prerequisite: Physics 1-H, completion of calculus (may take concurrently)).

This course is structured to prepare the student to take the Physics B or C - Advanced Placement exam. It is a college level course that normally forms the first part of the college sequence and serves as the foundation in physics for students majoring in the physical sciences or engineering. The methods of calculus are used wherever appropriate in formulation of physical principles and applying them to physical problems. Strong emphasis is placed on solving a variety of challenging problems, and analysis in the laboratory as well as the classroom. Roughly the first half of the year is devoted to classical mechanics and the second half to electricity and magnetism. Special relativity and quantum topics are interspersed throughout the course.

**4315 ANATOMY AND PHYSIOLOGY - H (L) (NCAA)****Grades 10 - 12****Course meets 8/6 days per cycle****Credit: 1.333**

(Recommend: Physical Science and Biology.)

This course is designed for seniors and underclassmen who are interested in entering the fields of nursing, medicine, and biology. Class work involves the study of topics such as biochemistry, cytology, histology, and anatomy and physiology of the human body. Students should have mastery knowledge in biochemistry (including but not limited to carbohydrates, lipids, proteins and nucleic acids) and cell biology (including but not limited to functions of cellular organelles, cellular transport and protein synthesis). Laboratory work includes the use of the microscope in the study of cells and tissues, experiments in biochemistry, and dissection of the cat and of various sheep organs. Seniors will receive priority in scheduling for this course.

**4325 ANATOMY AND PHYSIOLOGY - CP (NCAA)****Grades 10 - 12****Credit: 1.00***(Recommend: Physical Science and Biology.)*

This course is open to students who have an interest in anatomy and physiology. Class work involves the study of biochemistry, cytology (cells), histology (tissues), and anatomy and physiology of the human body. Laboratory work includes the use of the microscope, study of cells and tissues, experiments in biochemistry and through mammalian dissection of the cat and various sheep organs. Seniors will receive priority in scheduling for the course.

**4326 HUMAN ANATOMY & PHYSIOLOGY****Grades 10 - 12****Credit: 1.00***(Prerequisite: Physical Science and Biology-can be taken concurrently)*

The course provides a strong background in the structural and functional components of the human body. Presented in an applied format, the course will afford the opportunity to explore the dynamics of the working body through practical and/or virtual laboratory experiences.

**4415 AP BIOLOGY (L) (NCAA)****Grades 11 - 12****Course meets 8/6 days per cycle****Credit: 1.333***(Prerequisite: Biology-H, Chemistry 1. Recommend: Successful completion of Anatomy & Physiology before or concurrently)*

The AP Biology course is designed to be the equivalent of a college introductory biology course usually taken by biology majors during their first year. This course is to be taken by students after successful completion of a first course in biology and one in chemistry as well. It aims to provide the conceptual framework, factual knowledge, and analytical skills necessary to deal critically with the rapidly changing science of biology. Topics to be covered include: molecules and cells, chemistry of life, cells, cellular energetics, heredity and evolution, and organisms and populations. These topics will be explored within the conceptual framework of science as a process, evolution, energy transfer, continuity and change, relationship of structure to function, regulation, interdependence in nature and science, technology and society. At the completion of this course, students will be prepared to take the Biology AP exam.

**4405 AP CHEMISTRY (L) (NCAA)****Grades 11 - 12****Course meets 8/6 days per cycle****Credit: 1.333***(Prerequisite: Chemistry 1-H)*

The topics of this course include: chemical bonding, molecular geometry, valence bond theory, molecular orbital theory, intermolecular forces, equilibria, solution chemistry, kinetics, acids and bases, entropy, free energy, electrochemistry, coordination chemistry, nuclear and organic chemistry. This course is a continuation of the Chemistry 1 Honors (college-level) course, with emphasis on laboratory practices and procedures. Students in this course require a high level of mathematical proficiency and should anticipate a challenging workload. Laboratory classes meet two times during each cycle for double periods.

**4327 CHEMISTRY 2 - CP (L) (NCAA)****Grades 11 - 12****Course meets 8/6 days per cycle****Credit: 1.333***(Recommend: Successful completion of Chemistry 1-CP and Algebra 2)*

Chemistry 2 CP is a continuation of Chemistry 1 CP. It is intended to further the knowledge of the basic chemical concepts as well as introduce more college level material. The course is very laboratory intensive (with double-period lab classes meeting twice during each cycle). The lab experience provides the opportunity to use advanced techniques and tools commonly used in chemical and physical methods of data collection. The main topics of the course are: equilibrium, solubility equilibrium, acids and bases, oxidation-reduction reactions, electrochemistry, kinetics, and organic chemistry. This course is better suited

for Chemistry 1 CP students since Chemistry 1 Honors uses a different text and covers different material.

**4316 AP ENVIRONMENTAL SCIENCE (NCAA)****Grade 11-12****Credit: 1.00***(Prerequisite: Biology 1 and Chemistry 1)*

The AP Environmental Science course is designed to be the equivalent to an introductory, one semester, environmental college course. The course is designed to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving and/or preventing them. The topics covered include: energy flow in ecosystems, human disturbances, environmental problems and their cultural/social context, the earth as an interconnected system, and achieving sustainable resource use. At the completion of this course, students will be prepared to take the Environmental Science AP exam.

**4326 PRINCIPLES OF ECOLOGY & FIELD BIOLOGY - CP (NCAA)****Grades 11 - 12****Credit: 1.00***(Recommend: Successful completion of Chemistry)*

This course explores the general concepts of ecology. Included are ecosystems, habitats, communities and niches, abiotic and biotic factors, food chains, webs and pyramids, population dynamics, interspecies and intraspecies relationships, animal behavior, animal adaptation and evolution. Ecology uses basic science knowledge gained in earlier courses to explain how living things are affected by the world around us and how organisms affect one another.

**4336 PRINCIPLES OF ECOLOGY****Grade 12****Credit: 1.00***(Recommend: Successful completion of Chemistry)*

This course explores the general concepts of ecology. Included are ecosystems, habitats, communities and niches, abiotic and biotic factors, food chains, webs and pyramids, population dynamics, interspecies and intraspecies relationships, animal behavior, animal adaptation and evolution. Ecology uses basic science knowledge gained in earlier courses to explain how living things are affected by the world around us and how organisms affect one another.

**4350 ENVIRONMENTAL ISSUES/BIOETHICS****Grades 11 - 12****Credit: 1.00***(Recommend: Successful completion of Biology)*

This course is designed to allow students to explore and discuss some of the more intensely debated scientific issues in modern society. Units covered include animals, environment and health, land use, natural resources, and biotechnology. Students will obtain information about a topic; determine the sides of the issue; and, using methods including debate, role-play, projects, speakers, and multimedia formulate and express their opinions about each issue.

**4351 INTRODUCTION TO FORENSIC SCIENCE (NCAA)****Grades 11 - 12****Credit: 1.00***(Prerequisites: biology, chemistry (concurrent))*

This course will give the students an overview of the crime scene investigation process and the issues involved in presenting forensic evidence in court. Students will learn about the identification, documentation, and collection of various forms of physical evidence. The impact of television and other media on forensic science will also be discussed. This course is designed to provide a basic foundation in the field of forensics to students who are interested in the use of science to solve crimes.

**4352 PENNSYLVANIA'S WILD NATURAL RESOURCES****Grades 11 - 12****Credit: 1.00**

This course is designed to give students an introduction to the world of nature in the Keystone State. Our Commonwealth holds many natural treasures, including state parks, forests, game lands, national recreation areas and wildlife refuges. Various communities, such as bogs, forests, streams, and lakes will be explored as well as the wildlife species, their history and importance, which call PA home.

## Social Studies

All students will be required to complete 3.0 credits in the Social Studies curriculum as part of the graduation requirements. Students are required to take the specified courses in Grades 9 and 10 and an additional credit from the list of electives.

\* Unless otherwise specified, all courses meet 6/6 days per cycle

**SPECIFIED COURSES:****2110 CIVICS, GOVERNMENT & 19TH CENTURY HISTORY - H****Grade 9****Credit: 1.00**

This course provides a study of history (American and world) from 1800 to 1900. The history portion of the course will focus on fulfilling the PA State and Core History, Economics and Geography standards through a study of the major events, concepts and thought patterns of the 19th century that have helped to shape our nation and world into the places they are today. The foundations of research methodologies and the products that reflect that research will be emphasized.

The ninth grade honors curriculum requires intensive study and high expectations. Students are expected to demonstrate exceptional critical thinking and problem solving skills, as well as strong public speaking abilities. A strong emphasis is placed on research and the writing process. This course is intended for independent, highly motivated students who intend on competing for admission to highly competitive colleges.

**2120 CIVICS, GOVERNMENT & 19TH CENTURY HISTORY - CP****Grade 9****Credit: 1.00**

This course provides a study of history (American and world) from 1800 to 1900. The history portion of the course will focus on fulfilling the PA State and Core History, Economics and Geography standards through a study of the major events, concepts and thought patterns of the 19th century that have helped to shape our nation and world into the places they are today. The foundations of research methodologies and the products that reflect that research will be emphasized.

The ninth grade college-prep curriculum requires advanced study and above average expectations. Students are expected to demonstrate critical thinking and problem solving skills, as well as developmental public speaking abilities. An emphasis is placed on research and the writing process. This course is intended for motivated students who intend to move on to post-secondary education.

**2130 CIVICS, GOVERNMENT & 19TH CENTURY HISTORY****Grade 9****Credit: 1.00**

This course provides a study of history (American and world) from 1800 to 1900. The history portion of the course will focus on fulfilling the PA State and Core History, Economics and Geography standards through a study of the major events, concepts and thought patterns of the 19th century that have helped to shape our nation and world into the places they are today. The root elements of research methodologies and the products that reflect that research will be emphasized.

The ninth grade curriculum requires basic study and developmental expectations. Students are expected to demonstrate developmental critical thinking and problem solving skills, as well as preliminary public speaking abilities. Basic skills for research and the writing process will be developed. This course is intended for students who are considering moving on to post-secondary education.

**2210 20TH & 21ST CENTURY GLOBALIZATION - H****Grade 10****Credit: 1.00**

This course provides a study of history (American and world) from 1900 to the present. The course will focus on fulfilling the PA State and Core History, Economics and Geography standards through a study of the major events, concepts and thought patterns of the 20th and 21st centuries that have helped to shape our nation and world into the places they are today. The use of research methodologies and the products that reflect that research will be emphasized.

The tenth grade honors curriculum requires intensive study and high expectations. Students are expected to demonstrate exceptional critical thinking and problem solving skills, as well as strong public speaking abilities. An advanced emphasis is placed on research and the writing process. This course is intended for independent, highly motivated students who intend on competing for admission to highly competitive colleges.

**2220 20TH & 21ST CENTURY GLOBALIZATION - CP****Grade 10****Credit: 1.00**

This course provides a study of history (American and world) from 1900 to the present. The course will focus on fulfilling the PA State and Core History, Economics and Geography standards through a study of the major events, concepts and thought patterns of the 20th and 21st centuries that have helped to shape our nation and world into the places they are today. The use of research methodologies and the products that reflect that research will be emphasized.

The tenth grade college-prep curriculum requires advanced study and above average expectations. Students are expected to demonstrate strong critical thinking and problem solving skills, as well as above average public speaking abilities. A strong emphasis is placed on research and the writing process. This course is intended for motivated students who intend to move on to post-secondary education.

**2230 20TH & 21ST CENTURY GLOBALIZATION****Grade 10****Credit: 1.00**

This course provides a study of history (American and world) from 1900 to the present. The course will focus on fulfilling the PA State and Core History, Economics and Geography standards through a study of the major events, concepts and thought patterns of the 20th and 21st centuries that have helped to shape our nation and world into the places they are today. The root elements of research methodologies and the products that reflect that research will be emphasized.

The tenth grade curriculum requires basic study and developmental expectations. Students are expected to demonstrate developmental critical thinking and problem solving skills, as well as developmental public speaking abilities. Basic skills for research and the writing process will be developed. This course is intended for students who are considering moving on to post-secondary education.

**ELECTIVE COURSES:****2258 CURRENT AMERICAN ISSUES (s)****Grade 9****Credit: 0.50**

In this course, students will research and debate current American issues through the use of various forms of media, including, but not limited to: newspapers, magazines, and online databases. Students will study the implications of geography, history, cultures and economics on contemporary issues. Students will cover units that examine the citizens' role in their community, local government, state government, and international policies. Students are required to attend one civic meeting per marking period while enrolled in this class. This includes school board, borough council, township supervisor, or county commissioner meetings.

**2259 MODEL CONGRESS (s)****Grade 9****Credit: 0.50**

In this course, students will research and debate policies on a local, state, national, and international level. Students will research, write, discuss, and debate proposed bills. They will debate these issues using the principles of Parliamentary

procedure. Students will cover units in which they look at the U.S. Congress, parties and politics, voting and elections, public opinion and interest groups, and financing our government. Students are required to attend one civic meeting per marking period while enrolled in this class. This includes school board, borough council, township supervisor, or county commissioner meetings.

**2305 AP UNITED STATES HISTORY (NCAA)**

**Grades 11 - 12**

**Credit: 1.00**

*(This course counts as credit toward graduation and is recommended to any student applying to a military academy.)*

AP United States History is a college level course that stresses critical thinking and advanced research and writing skills. Offered in a seminar-style setting, the course gives students with a genuine interest in our country's past, present and future an opportunity to share ideas with their peers. Successful completion of this class and the AP exam may lead to college credit. **This course has a summer work requirement.**

**2306 AP EUROPEAN HISTORY (NCAA)**

**Grades 11 - 12**

**Credit: 1.00**

*(This course counts as credit toward graduation.)*

AP European History is a college level course that stresses critical thinking and advanced research and writing skills. Offered in a seminar style setting, the course gives students with a genuine interest in European history an opportunity to share ideas with their peers. Successful completion of this class and the AP exam may lead to college credit. **This course has a summer work requirement.**

**2316 PSYCHOLOGY - CP (NCAA)**

**Grades 10 - 12**

**Credit: 1.00**

Psychology is the science of human and animal behavior. This introductory course in psychology surveys several topics, such as: scientific methods of psychology, growth and development, influences of heredity and environment, understanding personality, measuring intellectual ability, learning, remembering and forgetting, motivation and emotions, frustration, conflict and stress, psychological disturbances, therapy for psychological disturbances, social influence and interaction. Psychology has evolved into a discipline with various approaches to psychological thought. This evolution is an ongoing challenge, which is reflected in current psychological literature. Course requirement: students shall be responsible for submitting a requirement such as a book report, research paper or psychological experiment which has been approved by the instructor. Students should be capable of reading a college-level text.

**2308 AP AMERICAN GOVERNMENT AND POLITICS (NCAA)**

**Grades 11 - 12**

**Credit: 1.00**

*(This course counts as credit toward graduation.)*

AP American Government and Politics is a college level course that stresses critical thinking and advanced research and writing skills. Offered in a seminar-style setting, the course gives students with a genuine interest in American government and politics an opportunity to share their ideas with their peers. Successful completion of this class and the AP exam may lead to college credit.

**2256 CONTEMPORARY ISSUES AND THE LAW (NCAA) (s)**

**Grades 11 - 12**

**Credit: 0.50**

This course has two main areas of focus: contemporary issues and the law. Students will be encouraged to formulate their own ideas about American government and politics based on thoughtful reflection and knowledge. The mission will be to open minds of students and encourage students to go beyond rote memorization and to reflect upon politics, the governmental process and the law. The focus of the course is on the analysis of public issues. Students will use analytical skills to make reflective, rational decisions about the problems facing society or about the individuals who deal with those problems. Through "open" class discussions on the issues, a positive political attitude will be developed.

**2257 GLOBAL ISSUES (NCAA) (s)**

**Grades 10 - 12**

**Credit: 0.50**

Global Issues offers students the opportunity to study the contemporary world through current events. It is designed to be informative as well as provide experience in reading, research, and writing. Students will develop a sense that, as time passes, we will become more intertwined with the "global community," and that these issues will affect us all. Some topics will include: environmental issues, global conflict, population issues, and human rights.

**2450 MINORITIES IN AMERICA (s)**

**Grades 10 - 12**

**Credit: 0.50**

An in-depth study of the role of individual and group minority movements that have shaped and impacted the development of America. Individuals and group efforts will be identified and analyzed as to their short term and long term impact on the American experience from the creation of the country until present day.

**2460 AMERICAN POP CULTURE (s)**

**Grades 10 - 12**

**Credit: 0.50**

This course will study popular trends, hobbies, fads and fashions in America throughout its history and how these preferences both reflected and shaped Americans. Students will be invited to research and identify American behavior and relate that behavior to historical events.

**2470 METHODS OF RESEARCH (s)**

**Grades 10 - 12**

**Credit: 0.50**

Methods of Research offers students the opportunity to immerse themselves in the research process to unlock strategies for not only doing research, but also developing presentations that accompany that research. Students will analyze the process, discover and utilize tools, and develop a variety of strategies for research and presentation through projects of their own design. Along the way, they will further develop the skills of inquiry, analysis, synthesis and associative thinking.

**2480 ECONOMICS (s)**

**Grades 10 - 12**

**Credit: 0.50**

This introductory course defines basic economic principles and economic systems through the examination of traditional, command, market and mixed economies. The role of individual consumers, businesses and government in economics will be studied through the economic development of the United States by examining the evolution of fiscal and monetary policy. International trade and globalization will be studied through absolute and comparative advantage, US trade policy, global institutions, free trade agreements, labor markets and outsourcing. Students will evaluate economic systems and analyze international trade and globalization as it relates to the US economy.



## Special Education

The Stroudsburg Area School District either directly, or through contract with other education agencies, provides special education programs and services that are required to meet the needs of students with disabilities. An Individualized Education Program (IEP) is developed for those students meeting eligibility for special education services on a yearly basis. The IEP team provides the building level team with program and course recommendations to meet the specific and individual needs of the student. Both regular education and special education classes are available to students with disabilities, as needed to address needs outlined within the IEP.

### Gifted Support:

The Stroudsburg Area School District offers a variety of learning options to meet the needs and interests of students who have been found eligible for gifted programming and services in grades 9 through 12. A Gifted Individualized Education Plan (GIEP) is developed yearly by building level teams. The GIEP team determines the specially designed instructions necessary to enrich and/or advance a student in their identified area(s) of giftedness.

## Technology Education

The high school Technology Education program is an individualized and specialized activity-based program that is concerned with understanding the evolution, application, and significance of technology. In-depth study is provided in the technical components of Manufacturing, Construction, Energy and Transportation sectors. Emphasis is given to the application of Science, Technology, engineering Arts and Math (STeAM) principles. Courses in Technology Education are open to students in all program sequences. ALL students must successfully complete one course in Technology Education to meet the SASD graduation requirements.

### 6410 EXPLORING TECHNOLOGY

**Grade 9**  
**Credit: 1.00**

This course is designed to provide the ninth grade student with a sampling of technology subjects that are offered in the Senior High School Technology Education sequence. Power, materials and communication technologies are presented to the students to develop an understanding of and an ability to use and apply these technologies in our global society. Students will also explore potential careers in the STeAM (Science Technology engineering Arts and Math) fields, as well as other related fields of study.

### 6411 EMERGING ENERGY TECHNOLOGIES (s)

**Grade 9**  
**Credit: 0.50**

This course is designed to study the past, present and future of all forms of energy that our society has become dependent on. Students will investigate and complete projects in areas including electricity, combustion engines, alternative energy and transportation systems. Students will also explore potential careers in the STeAM (Science Technology engineering Arts and Math) fields, as well as other related fields of study.

### 6412 INTRODUCTION TO ENGINEERING & DESIGN (s)

**Grade 9**  
**Credit: 0.50**

Throughout this course, students will develop a basic understanding of the engineering and design process. Students will use a variety of hand and power tools to complete a variety of assignments while applying STEaM skills and practices. Students will also explore potential careers in the STeAM (Science Technology engineering Arts and Math) fields, as well as other related fields of study.

### 6420 MATERIALS PRODUCTION 1 (s)

**Grades 10 - 12**  
**Credit: 0.50**

This course is designed to teach the student the proper and safe use of all power woodworking machinery. This knowledge will be used to complete a required project. It is recommended that this course be paired with Introduction to CADD. Students will also explore potential careers in the STeAM (Science Technology engineering Arts and Math) fields, as well as other related fields of study.

### 6430 MATERIALS PRODUCTION 2 (s)

**Grades 10 - 12**  
**Credit: 0.50**

This course provides the student with exposure in the manufacturing processes used in industry. Of major importance will be the manufacturing process, design, industrial materials and the proper and safe operation of all power woodworking machinery. It is recommended that this course be paired with Computer-Aided Drafting and Design (CADD). Students will also explore potential careers in the STeAM (Science Technology engineering Arts and Math) fields, as well as other related fields of study.

### 6421 MATERIALS PRODUCTION 3: CONSTRUCTION TECHNOLOGIES (s)

**Grades 10 - 12**  
**Credit: 0.50**

Students will develop a basic understanding of the design and behavior of structures. Through laboratory activities, students will learn how structures are designed, why certain materials are used, how structures withstand loads, and the impacts of structures on societal, biological, and technological systems. It is recommended that this course be paired with Architectural CADD. Students will also explore potential careers in the STeAM (Science Technology engineering Arts and Math) fields, as well as other related fields of study.

### 5650 ENGINEERING & TECHNOLOGY CONCEPTS (s)

**Grades 10-12**  
**Course meets 3/6 days per cycle**  
**Credit: 0.25**

Throughout this course, students will develop a basic understanding of the engineering and design process. Students will use a variety of hand and power tools to complete a variety of assignments while applying STEaM skills and practices. Students will also explore potential careers in the STeAM (Science Technology engineering Arts and Math) fields, as well as other related fields of study.

### 6435 ROBOTICS 1 (s)

**Grades 10 - 12**  
**Credit: 0.50**

Automation and Control – Students will learn the principles of automation used to operate and control industrial machinery and robots. Students will experience Computer Numerical Control (CNC) Lathe and Milling operations and various methods for programming and controlling industrial type robots. Students will also explore potential careers in the STeAM (Science Technology engineering Arts and Math) fields, as well as other related fields of study.

### 6436 ROBOTICS 2 (s)

**Grades 10 - 12**  
**Credit: 0.50**

(Recommend Robotics 1)

Mechatronics – The Principles of Mechanics, Electronics, and Computing  
Students will learn applications of robotics principles through the use of VEX robotics hardware and software. Students will complete individual and group activities, culminating in an end of course robotics competition. Students will also explore potential careers in the STeAM (Science Technology engineering Arts and Math) fields, as well as other related fields of study.



**6440 CADD 1: INTRODUCTION TO CADD (s)**  
**Grades 10 - 12**  
**Credit: 0.50**

This course is appropriate for every student who desires to increase his/her technical knowledge beyond word processing and spreadsheet software. Projects are completed on a PC running a variety of Computer Aided Drafting and Design (CADD) software. Students will be introduced to: orthographic projections, sections, auxiliary drawings, pictorials and developments. Students will also explore potential careers in the STeAM (Science Technology engineering Arts and Math) fields, as well as other related fields of study.

**6442 COMPUTER-AIDED DRAFTING AND DESIGN - CADD**  
**Grades 10 - 12**  
**Credit: 1.00**

This course is appropriate for every student who desires to increase his/her technical knowledge through the use of computers. The course will involve an in-depth study of the following: orthographic projections, sections, auxiliary drawings, pictorials and developments. Work is performed on a PC running a variety of CADD software. This course is highly recommended for any student considering a career in engineering and other STEaM disciplines. Students will also explore potential careers in the STeAM (Science Technology engineering Arts and Math) fields, as well as other related fields of study.

**6445 ARCHITECTURAL DESIGN TECHNOLOGY**  
**Grades 10 - 12**  
**Credit: 1.00**

Students will design and create the necessary drawings for a residential construction, including a floor plan, basement plan, wall section, elevations, stair detail, fireplace detail, plot plan, and a pictorial rendering. Work is performed on a PC running CADD software. Also, with time permitting, each student will build an architectural model of his/her individual design. Students will also explore potential careers in the STeAM (Science Technology engineering Arts and Math) fields, as well as other related fields of study.

**6446 ADVANCED COMPUTER-AIDED DRAFTING**  
**Grades 10 - 12**  
**Credit: 1.00**

This is an advanced computer course dealing with technical problem solving in mechanical drawing. Additional types of drawings will be included such as working drawings, structural drawings, and schematic drawings. Students will also explore potential careers in the STeAM (Science Technology engineering Arts and Math) fields, as well as other related fields of study.



## World Language

The World Language curriculum is a college preparatory and honors level program designed to prepare students for life in a global society. Oral proficiency is stressed along with listening, reading, and writing skills. The study of culture, in an effort to promote understanding, is also an integral part of each course and is introduced through readings, recordings, and a video component.

\* Unless otherwise specified, all courses meet 6/6 days per cycle

**6011 FRENCH 1 - CP (NCAA)**  
**Grades 9 - 12**  
**Credit: 1.00**

French 1 is a College Preparatory course that familiarizes the beginning student with the French sound system, basic grammar, basic vocabulary and introduces French culture. There is an emphasis on participation to promote speaking skills. Written work includes homework, dialogues, and brief paragraphs. It is strongly recommended that only students enrolled in a College Preparatory or Honors level English consider this course.

**6012 FRENCH 2 - CP (NCAA)**  
**Grades 9 - 12**  
**Credit: 1.00**

*(Recommend: Successful completion of French 1)*

French 2 is a College Preparatory course that reinforces the study of the French sound system and continues the study of basic grammar, vocabulary and French culture. Listening, speaking, reading and writing abilities are developed. It is strongly recommended that only students enrolled in a College Preparatory or Honors level English consider this course.

**6013 FRENCH 3 - H (NCAA)**  
**Grades 10 - 12**  
**Credit: 1.00**

*(Recommend: Successful completion of French 1 and 2)*

French 3-H continues the study of basic grammar and increases the vocabulary range of the student. The study of French culture is also continued. More emphasis is placed on speaking to develop proficiency. French literature is introduced. This course is conducted primarily in French and students are expected to participate in French.

**6014 FRENCH 4 - H (NCAA)**  
**Grades 11 - 12**  
**Credit: 1.00**

*(Recommend: Successful completion of French 3-H)*

French 4-H completes the study of basic grammar. Speaking, reading, listening and writing skills are further developed through spontaneous and prepared talks. French literature is read and discussed. The study of French culture continues. This course is conducted primarily in French and students are expected to participate in French.

**6015 FRENCH 5 - H (NCAA)**  
**Grades 12**  
**Credit: 1.00**

*(Recommend: Successful completion of French 4-H)*

French 5 Honors approximates the intensive listening, speaking, reading and writing atmosphere of a third year, college level course. This course is conducted mainly in French and students are expected to participate fully in developing their speaking and listening skills. French Literature, history, advanced grammar and culture will be further studied. Additionally, contemporary and classic French films will be examined.

**6021 GERMAN 1 - CP (NCAA)**  
**Grades 9 - 12**  
**Credit: 1.00**

*(Tentative course offering for School Year 2016-2017)*

German 1 is a College Preparatory course that familiarizes the beginning student with the German sound system, basic grammar, basic vocabulary and introduces

the culture of German speaking countries. Speaking German in class is necessary in order to develop proficiency. Written work includes homework, dialogues, and brief paragraphs. It is strongly recommended that only students enrolled in a College Preparatory or Honors level English consider this course.

**6022 GERMAN 2 - CP (NCAA)**  
**Grades 9 - 12**  
**Credit: 1.00**

*(Recommend: Successful completion of German 1)*

German 2 is a College Preparatory course that reinforces the study of the German sound system and continues the study of basic grammar, vocabulary and German culture. Understanding, reading and writing abilities as well as speaking proficiency are developed. Speaking of German and written work continue to be emphasized. It is strongly recommended that only students enrolled in a College Preparatory or Honors level English consider this course.

**6023 GERMAN 3 - H (NCAA)**  
**Grades 10 - 12**  
**Credit: 1.00**

*(Recommend: Successful completion of German 1 and 2)*

German 3-H continues the study of basic grammar and increases the vocabulary range of the student. More emphasis is placed on creative self-expression through speaking and writing assignments. Brief authentic texts are read. Homework, writing assignments, and a project are required. This course is conducted primarily in German and students are expected to participate in German.

**6024 GERMAN 4 - H (NCAA)**  
**Grades 11 - 12**  
**Credit: 1.00**

*(Recommend: Successful completion of German 3-H)*

German 4-H students build on the information and skills learned in levels 1 through 3-H. Speaking proficiency is developed through discussions. Writing ability is developed through story and essay writing. German short stories are read and discussed. Basic grammar is reviewed as needed and the finer points of grammar are studied in order to develop writing proficiency. Homework and essays are required. This course is conducted primarily in German and students are expected to participate in German.

**6025 GERMAN 5 - H (NCAA)**  
**Grade 12**  
**Credit: 1.00**

*(Recommend: Successful completion of German 4-H)*

German 5 Honors approximates the intensive listening, speaking, reading and writing atmosphere of a third year, college level course. These skills are given special attention through a sampling of German literature, and grammar review. Contemporary German films are viewed and discussed. This course is conducted primarily in German and students are expected to participate.

**6031 SPANISH 1 - CP (NCAA)**  
**Grades 9 - 12**  
**Credit: 1.00**

Spanish 1 is a College Preparatory course that familiarizes the beginning student with the Spanish sound system, basic grammar, basic vocabulary and introduces the culture of Spanish speaking countries. Speaking of Spanish is necessary in order to develop proficiency. Written work includes homework, dialogues, and brief paragraphs. It is strongly recommended that only students enrolled in a College Preparatory or Honors level English consider this course.

**6032 SPANISH 2 - CP (NCAA)**  
**Grades 9 - 12**  
**Credit: 1.00**

*(Recommend: Successful completion of Spanish 1)*

Spanish 2 is a College Preparatory course that reinforces the study of the Spanish sound system and continues the study of basic grammar, vocabulary and Hispanic culture. Understanding, reading and writing abilities as well as speaking proficiency are developed. Speaking of Spanish continues to be emphasized. It is recommended that only students enrolled in a College Preparatory or Honors level English consider this course.

**6033 SPANISH 3 - H (NCAA)**  
**Grades 10 - 12**  
**Credit: 1.00**

*(Recommend: Successful completion of Spanish 1 and 2)*

Spanish 3-H continues the study of basic grammar and increases the vocabulary range of the student. More emphasis is placed on creative self expression and proficiency, both speaking and written. The study of Hispanic history and culture is continued and there are also various written and speaking projects assigned. This course is conducted primarily in Spanish and students are expected to participate in Spanish.

**6034 SPANISH 4 - H (NCAA)**  
**Grades 11 - 12**  
**Credit: 1.00**

*(Recommend: Successful completion of Spanish 3-H)*

Spanish 4-H students build on the information and skills learned in levels 1 through 3-H. Speaking proficiency is developed through class discussions. Writing ability is developed through composition and essay writing. Basic grammar is reviewed and finer points of grammar are studied in order to develop writing proficiency. This course is conducted primarily in Spanish and students are expected to participate in Spanish.

**6035 SPANISH 5 - H (NCAA)**  
**Grade 12**  
**Credit: 1.00**

*(Recommend: Successful completion of Spanish 4-H)*

Spanish 5 Honors approximates the intensive listening, speaking, reading and writing atmosphere of a third year, college level course. Special attention is given to these skills through a series of lectures, short stories, plays and essays. There is also a varied study of Hispanic culture. The class is conducted primarily in Spanish and students are expected to participate in Spanish.



# Monroe Career & Technical Institute

570-629-2001  
www.monroecti.org

The Monroe Career & Technical Institute (MCTI) offers students a wide range of educational opportunities in trades areas, a student/teacher ratio of approximately 20 to 1, many partnerships with local business and industry, and a qualified and caring staff.

Registration – All present ninth grade students who wish to attend the Monroe Career & Technical Institute as a sophomore must complete an MCTI application.. Applications will be distributed to all interested ninth grade students, along with an MCTI course catalog. Parents/guardians and students may refer to this program of studies for a brief description of each of the courses available to students. Any student who successfully passes ninth grade (and earns 6.0 credits) is eligible to attend MCTI as a sophomore. Acceptance to some programs of study may require that the applicant has successfully completed certain academic courses prior to entry. Please review the following information for course descriptions.

Current sophomores and juniors may also apply for any one of the programs at MCTI. Students need to see their high school guidance counselor for an application. Unless otherwise specified, all courses meet everyday for half the school day.

All Programs consist of a list of PDE required tasks and additional local or value added tasks.

## Construction

**8027A/8027P**  
**CARPENTRY**  
**Grades 10 - 12**  
**Credit: 4.00**

The Carpentry Program is an instructional program that prepares individuals to apply technical knowledge and skills to lay out, 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. The program is designed to provide students with a combination of classroom theory and hands-on building experience in residential, commercial, and industrial construction trades.

**8207A/8207P**  
**ELECTRICAL TECHNOLOGY**  
**Grades 10 - 12**  
**Credit: 4.00**

The Electrical Technology Program is 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.

Students are also given the opportunity to pursue advanced training in motor control circuits and power technology applications. Students are also afforded the opportunity to study home automation by using the Smart Home Technology. Students receive practical experience by completing many projects.

**8032A/8032P**  
**HEATING, VENTILATION, AND AIR CONDITIONING**  
**Grades 10 - 12**  
**Credit: 4.00**

The Heating, Ventilation & Air Conditioning (HVAC) Program is an instructional program that combines classroom and practical learning experiences. This Program prepares individuals to apply technical knowledge and skills to install, repair and

maintain commercial and domestic heating, air conditioning and refrigeration systems. Instruction includes theory and application of basic principles involved in conditioning of air (cooling and heating); filtering and controlling humidity; operating characteristics of various units and parts; blueprint reading; use of technical reference manuals; the diagnosis of malfunctions; overhaul, repair and adjustment of units and parts such as pumps, compressors, valves, springs and connections; and repair of electric/electronic and pneumatic control systems. This Program is certified by the National Center for Construction Education and Research.

**8030A/8030P**  
**MASONRY**  
**Grades 10 - 12**  
**Credit: 4.00**

The Masonry Program is 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. The masonry curriculum combines classroom and practical learning experience including hands-on projects.

**8033A/8033P**  
**PLUMBING**  
**Grades 10 - 12**  
**Credit: 4.00**

Plumbing is an instructional program that that prepares individuals to practice as licensed plumbers by applying technical knowledge, safety and skills to lay out, 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. The Program 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.

The Program combines classroom and practical learning experiences. Students also become involved with many community service projects related to their program of study. This Program is certified by the National Center for Construction Education and Research.

## Health Science & Human Services

**8085A/8085P**  
**COSMETOLOGY**  
**Grades 10 - 12**  
**Credit: 4.00**

The Cosmetology Program is an instructional program that prepares individuals to apply technical knowledge and skills related to experiences in a variety of beauty treatments including the care of the hair, skin and nails. Instruction includes training in giving shampoos, rinses and scalp treatments; hair styling, setting, cutting, coloring, tinting and lightening; permanent waving; facials; manicuring; and hand and arm massaging. The program also includes instruction in bacteriology, anatomy, hygiene, sanitation, salon management including record keeping and customer relations. Instruction is designed to qualify pupils for the licensing examination upon successfully completing 1,250 hours of instruction.

**8502A/8502P**  
**CULINARY ARTS**  
**Grades 10 - 12**  
**Credit: 4.00**

The Culinary Arts Program is 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 of skills is provided to individuals desiring to become employed in all areas of the food service industry at entry level. The Program is certified by the American Culinary Federation.

**8385A/8385P****HEALTH PROFESSIONS****Grades 10 - 12****Credit: 4.00**

The Health Professions Program is designed to prepare individuals to apply knowledge and skills in the health occupations. Instruction is provided in the basic skills in a variety of areas associated with health occupations such as health and medical services, pharmaceutical and medical instruments and supplies. Instruction includes, but is not limited to, foundations of health (medical terminology); anatomy and physiology; legal, ethical and economic aspects of health care; clinical laboratory procedures; basic health occupational skills; aseptic techniques; OSHA regulations; and infection control. Clinical education is an integral part of the program. Science and math taught by certificated science and math teachers will be coordinated and deemed essential for students to successfully reach their career objectives.

Leadership is an integral part of the entire program through participation in HOSA (Health Science Technology Student Organization). A mandatory clinical assignment is integrated into the curriculum. Seniors will take the Nurse Aid course and certification test.

**8505A/8505P****HOTEL, RESORT, & TOURISM MANAGEMENT****Grades 10 - 12****Credit: 4.00**

The Hotel, Resort, and Tourism Management Program (HTMP) is an instructional program that prepares individuals to perform marketing and management functions in operational responsibilities associated with a wide variety of careers within the hospitality and tourism industry. Students will be instructed in the areas of personal development, communications, leadership, guest services, sales, financial processes, front office operations, housekeeping, food and beverage service, facilities management, property safety/security, resort management and other occupational preparation activities that will develop the student in the necessary competencies for employment in the hotel/motel industry.

The Program has been designed by the American Hotel & Lodging Association – Educational Institute with active industry involvement and approval. Through HTMP, partnerships are established with local hotels to provide student internships, field trips, and job shadowing.

**8404A****APPLIED HORTICULTURE (Floriculture)****Grades 10 - 12****Credit: 4.00****8405P****HORTICULTURE OPERATIONS (Landscaping)****Grades 10 - 12****Credit: 4.00**

The Horticulture Program is an instructional program having a combination of organized subject matter and practical experiences that generally prepares individuals to produce, process, and market plants, shrubs and trees used principally for ornamental, recreational, and aesthetic purposes and to establish, maintain and manage horticultural enterprises. Instruction emphasizes knowledge, understanding and application important to establishing, maintaining and managing horticultural enterprises such as arboriculture, floriculture, greenhouse operation and management landscaping, nursery operation and management and turf management.

**8512A/8512P****CRIMINAL JUSTICE****Grades 10 - 12****Credit: 4.00**

The Criminal Justice Program is an instructional program that prepares individuals to apply technical knowledge and skills that relate to performing entry-level duties as a patrolman, corrections officer, juvenile officer, security officer and probation officer. The course stresses patrol and related duties such as traffic and crowd control, the American legal system, techniques used in the police laboratory and training in emergency and disaster situations. Also stressed is physical development with a strong emphasis on self-defense and the building of self-confidence. Investigatory techniques such as interviewing and evidence gathering, report writing, a study of juvenile law and procedure, the techniques of crime prevention, the criminal process from arrest through conviction and procedural matters affecting law enforcement such as arrest, search and seizure and legal principles developed in information lessons are utilized in supervised simulated situations.

**8800A/8800P****MARKETING****Grades 10 - 12****Credit: 4.00**

The Marketing Program is 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, technological 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.

This program does not include warehousing/logistics functions.

## Information Technology

**8218A/8218P****COMPUTER NETWORKING and SECURITY****Grades 10 - 12****Credit: 4.00**

The Computer Networking and Security Program is an instructional program that focuses on the design, implementation and management of linked systems of computers, peripherals and associated software and prepares individuals with the technical skills required to support networks and network users. This program includes instruction in network technologies and standards: system design, architecture, operating systems, security, communications protocols, client support, messaging services, network management, trouble-shooting and server optimization. Those completing the program may be employed as a network administrator, network specialist, network technician, webmaster, client services analyst (end user) or network operator.



The core content of this course is focused on nationally recognized certifications. Computer Networking and Security is a college prep program. Upon completion of the program, students may be eligible to obtain up to 30 credits advanced standing at a post-secondary institution based on their career track.

**8062A/8062P**                      **GRAPHIC COMMUNICATIONS**  
**Grades 10 - 12**  
**Credit: 4.00**

Graphic Communications is an instructional program that generally prepares individuals to apply technical knowledge and skills to plan, prepare and execute commercial and industrial visual image and print products using mechanical, electronic and digital graphic and printing equipment. Students learn desktop publishing, layout, composition, presswork and bindery as well as photography, and several graphic arts techniques. Emphasis is on typographical layout and design using computer graphics, photo typesetting, platemaking, offset preparation and operation, paper cutting, ink and color preparation and dynamics and airbrush and screen printing production.

Concentration in the area of graphic arts will permit the student to work in computer design, digital prepress, press work, sign making/vehicle graphics, screen printing, sandblasting, and more. In addition, the students will be instructed in various finishing operations.

## Manufacturing Programs

**8042A/8042P**                      **DRAFTING TECHNOLOGY**  
**Grades 10 - 12**  
**Credit: 4.00**

Drafting and Design is an instructional program that generally prepares individuals to apply technical knowledge and skills as each relates to gathering and translating of data or specifications including basic aspects of planning, preparing and interpreting mechanical, architectural, chemical, structural, civil, electrical/electronic, topographical and other drawings and sketches used in various engineering fields. Instruction is designed to provide experiences in drawing and CAD; the use of reproduction materials, equipment and processes; the preparation of reports and data sheets for writing specifications; the development of plan and process charts indicating dimensions, tolerances, fasteners, joint requirements and other engineering data; the development of models; and drafting multiple view assembly and sub-assembly drawings as required for manufacture, construction and repair of mechanisms.

Students who successfully complete the program will have the opportunity to work as entry level CAD-Technicians with mechanical, architectural, and civil drafting professionals. Students may also work in many related careers such as surveying, construction estimating, and specification writing.

**8208A/8208P**                      **ELECTRONICS**  
**Grades 10 - 12**  
**Credit: 4.00**

Electronics Technology is an instructional program that prepares individuals to apply basic electronic principles and technical skills to the production, calibration, estimation, testing, assembling, installation and maintenance of electronic equipment. Emphasis is on passive components and solid-state devices; digital circuits; optoelectronic devices; operational amplifiers; audio and RF amplifiers; oscillators; power supplies; and AM, FM and PCM modulators. Knowledge is acquired through theoretical instruction, experimentation and hands-on activities. Instruction will develop basic levels of knowledge, understanding and associated skills essential for entry-level employment in communications, industrial electronics, digital processing, robotics, avionics, biomedical technology and other electronics occupations. Through collaborative curriculum planning with colleges and trade schools, students who participate in this program are eligible to obtain up to 12 credits advanced standing in a post-secondary program. This Program participates in the Electronics Technicians Association and International Student Certification Program.

**8071A/8071P**                      **PRECISION MACHINING**  
**Grades 10 - 12**  
**Credit: 4.00**

The Computerized Machine Technology Program is an instructional program designed to give individuals technical knowledge and skills in all aspects of shaping metal parts for industrial application. Instruction involves making computations relating to work dimensions, tooling and feeds and speeds of machining. Emphasis is placed upon bench work and the operation of lathes, power saws, milling machines, grinders, drill presses, 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.

The Program provides both practical skills and related theory in machine tool operation, CAD drawings along with the technical mathematics, science, and communication skills essential to a career in manufacturing. The Program is certified by the National Institute for Metalworking Skills, Inc.(NIMS) and students can receive credentials from NIMS.

**8075A/8075P**                      **WELDING TECHNOLOGY**  
**Grades 10 - 12**  
**Credit: 4.00**

The Welding Technology Program is an instructional program that prepares individuals to apply technical knowledge and skills in gas, arc, shielded and non-shielded metal arc, brazing, flame cutting and plastic welding. Hand, semi-automatic and automatic welding processes are also included in the instruction. Students learn safety practices and types and uses of electrodes and welding rods; 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; positioning and clamping; and welding standards established by the American Welding Society (AWS), American Society of Mechanical Engineers and American Bureau of Ships. The Program is certified by the American Welding Society.

## Transportation Programs

**8008A/8008P**                      **AUTO COLLISION REPAIR**  
**Grades 10 - 12**  
**Credit: 4.00**

The Auto Collision Repair Program is 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 seat 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; straighten 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 surfaces by painting with primer and finish coat.

**8009A/8009P**                      **AUTOMOTIVE TECHNOLOGY**  
**Grades 10 - 12**  
**Credit: 4.00**

Students enrolled in the Automotive Technology Program are prepared 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 drive train and suspension systems. Instruction is also given in the adjustment and repair of individual components and systems such as cooling systems, drive trains, fuel system components and air conditioning and includes the use of technical repair information and the state inspection procedures.

This Program is certified by the National Automotive Technicians Education Foundation (NATEF) and is designed for students who would like to work in the automotive service

industry. Automotive technicians need knowledge of electronics, emission control, electricity, mechanics, and hydraulics.

The need for skilled technicians is rapidly increasing. Expanded use of electronics, new government requirements on safety and pollution control, and more extensive warranties on new vehicles require the work of highly skilled technicians and diagnosticians.

**8067A/8067P**                      **OUTDOOR POWER EQUIPMENT TECHNOLOGIES**  
**Grades 10 - 12**  
**Credit: 4.00**

The Power Equipment Technologies Program is an instructional program that prepares individuals to apply technical knowledge and skills to repair, service, maintain and diagnose problems on a variety of small internal-combustion gasoline engines and related systems used on portable power equipment such as lawn and garden equipment, chain saws, outboard motors, rottilers, snowmobiles, lawn mowers, motorcycles, personal watercraft and pumps and generators. This Program includes instruction in the principles of the internal-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.

**8041A/8041P**                      **DIESEL TECHNOLOGY**  
**Grades 10 - 12**  
**Credit: 4.00**

The Diesel Technology Program is designed to prepare individuals to apply technical knowledge and skills to the specialized maintenance and repair of trucks, buses, and other commercial and industrial vehicles. This Program includes instruction in diesel engine mechanics, suspension and steering, brake systems, electrical and electronic systems, preventive maintenance inspections, drive trains, HVAC systems, and auxiliary equipment installation and repair.

The Diesel Technology Program includes safety, theory, and general practice. Diesel technicians must like to work with machines and be able to use both hand and power tools. This Program is certified by the National Automotive Technicians Education Foundation (NATEF).

**MATHEMATICS**

Specialized courses are offered to meet the unique requirements of our students. These include Medical Math and Elementary Statistics for students in the Allied Health program.

**School-to-Work Programs:**

These guidelines apply to Capstone Cooperative Education and Diversified Occupations. Please read these carefully before enrolling in either course of study.

**Rules and Regulations**

\* It is the responsibility of the student-learner to obtain the signatures of all parties involved on the training agreement. The training agreement must be returned to the Diversified Occupations instructor. The date the Diversified Occupations instructor signs the training agreement will be considered the employment start date of the student.

\* The student-learner is required to attend all regularly scheduled Diversified Occupations classes where he or she will receive instruction on general related theory. Missing class and reporting to work is not acceptable and will affect the student's grade.

\* If there is a temporary layoff or suspension of work, the student will report back to the Diversified Occupations instructor immediately.

\* The student will report promptly to the employer any absence from work caused by sickness or other legal excuses.

\* The student will submit a written excuse signed by his or her parent(s) for any days absent from school and work within three (3) days of his or her return to school.

\* The student will operate his/her vehicle in a safe and legal manner to and from the job. At no time should other students be riding in the Diversified Occupations student's vehicle without prior approval.

\* The student may not change training stations without prior approval from the Diversified Occupations instructor.

\* The student may not terminate his or her employment without the advanced approval of the Diversified Occupations instructor.

\* The student must be dressed appropriately for his or her job. This includes safety equipment!

\* The student must have employment to be part of the Diversified Occupations Program.

Note: Failure to comply with the rules and regulations of the vocational school or the home school could result in the termination of Diversified Occupations Program enrollment.

**8900C**                              **CAPSTONE COOPERATIVE EDUCATION**  
**Grade 12**  
**Credit: 4.00**

Cooperative education (Co-op) is a method of instruction that effectively brings about what is best for students. The use of the work environment is a plan of education that enables the students of Monroe Career & Technical Institute to gain practical experience in their chosen career track. Students are accredited for becoming employed, typically a half day, within their trade area.

Pennsylvania continues to be a leader in this effort through cooperative education. Cooperative education has been a part of both the secondary and post-secondary school programs in Pennsylvania for more than 50 years, having its genesis around the turn of the century.

**DIVERSIFIED OCCUPATIONS (Stroudsburg High School Program Option)**

**8606A**                              **D.O. Class**  
**Grade 12**  
**Course meets 2/6 days per cycle**  
**Credit: 1.00**

**8606B**                              **D.O. On-Site**  
**Grade 12**  
**Course meets 6/6 days per cycle**  
**Credit: 1.00**

**8606C**                              **D.O. On-Site**  
**Grade 12**  
**Course meets 6/6 days per cycle**  
**Credit: 2.00**

**8606T**                              **D.O. Class (s)**  
**Grade 12**  
**Course meets 2/6 days per cycle**  
**Credit: 0.50**

**8606U**                              **D.O. On-Site (s)**  
**Grade 12**  
**Course meets 6/6 days per cycle**  
**Credit: 0.50**

**8606V**                              **D.O. On-Site (s)**  
  
**Grade 12**  
**Course meets 6/6 days per cycle**  
**Credit: 1.00**

The Diversified Occupations Program (DO) is an instructional program that operates as an integral part of vocational education to provide a cooperative arrangement between the school and employers whereby the student receives general education instruction in the school and on-the-job training through part-time employment in business/industry. The area of training may be in any vocational education area where there are needs for trained persons and must relate to the student's career objective.

The DO Program is a partnership between MCTI, the sending district, the student and the student's parents, and the employer. This training program is designed

to help the student to transition from school to the world of work while gaining valuable life and work experience. Students are responsible for finding part-time employment with a local employer which is directly related to the career field they wish to pursue after graduating from high school. This Program is conducted at the student's district high school campus.

## MCTI's 9th Grade Vocational Program

The Monroe Career & Technical Institute's Ninth Grade. Program, F.A.C.E which stands for Freshman Academy Career Exploration is designed to give students who are at or above grade level standards the opportunity to attend the Monroe Career and Technical Institute during their freshman year. This is a career exploration opportunity that will rotate students through a minimum of sixteen career areas during half of their school day. By the end of the year the students should have a clear indication of what their potential career goals will be and what path at the secondary level will get them there. The FACE Rotation Students will attend a different program area during the AM or PM session for four consecutive days and on the fifth day participate in career research activities.

Students enrolled in the FACE Program will attend their core academic subjects (Math, Science, English, & Civics) in the opposite session (AM or PM) of their career rotations. Our freshman team of academic teachers utilize the latest in technology to integrate their subject areas with the career and technical programs at MCTI. Each student will be assigned a Chromebook to utilize while in their academic classes which will enable them to become proficient in the use of Google, Google Docs/Forms/Sites/Calendar, and Google Blogs.



The general goals of the Ninth Grade Program are to help students to:

- Achieve academically
- Demonstrate a positive self concept
- Communicate effectively
- Develop positive social relationships with teachers and students
- Improve study habits
- Develop career awareness
- Improve attendance
- Improve student achievement in academic areas
- Reduce student drop out rate
- Demonstrate critical thinking skills

Students failing one or more academic classes may not return to MCTI the following year unless documentation is provided showing that they passed summer school. Any 8th grade student who is interested in attending must complete an application. All applications will be reviewed. Final approval for admission to the Ninth Grade F.A.C.E Program will be a collaborative decision between the MCTI, the sending school and guidance counselor - Participation in the program is strictly voluntary. A final decision for program admission will be made following orientation and is contingent upon parental and student agreement to all terms and conditions associated with the program.

8001 English/Composition 9/MCTI  
 8002 Civics 9/MCTI  
 8003 Algebra 1/MCTI  
 8003A Algebra 1A/MCTI  
 8003G Geometry/MCTI  
 8004 Physical Science/MCTI  
 8000 Freshman Academy for Career Exploration F.A.C.E

## 8th Grade Curricular Offerings

### ACADEMIC AREAS

Students receive instruction in the five core academic areas of Reading, Language Arts, Social Studies, Science and Mathematics. Eligible students may begin their study of World Languages in lieu of Reading. Students are evaluated and placed homogeneously in the Advanced and Workshop Programs based on multiple criteria. The advanced courses cover the basic curriculum but with higher expectations and greater demands; they include enrichment activities and assignments which are covered in more depth that accelerate the pace of the course. The Workshop Program is designed for students, who in order to meet success in their curricular offerings, are provided with an alternate approach to meet academic standards. These courses provide students with guidance and assistance as needed, encouraging them to assume increasing responsibility for managing their own learning.

Based on the scores on the state reading and math assessment (PSSA), students may be assigned to Reading/Writing Edge, or the Math class that will best meet their academic needs. These courses may be required instead of study hall, and/or in some cases, Band, Orchestra or Chorus.

Eligible eighth grade students who meet the criterion may have the opportunity to earn a maximum of two (2) high school credits toward graduation; if taken, they may derive those credits from Algebra 1, Algebra 2 and a World Language (for additional information, please see the Student Handbook).

### LANGUAGE ARTS

#### Advanced Language Arts - 9180

Advanced Language Arts is a rigorous course of study. Students must complete the core requirements of the eighth grade curriculum. All eighth graders will study a variety of short stories, a play, and a novel. All eighth graders will also demonstrate their writing skills in the following genres: descriptive, expository, narrative and persuasive. The advanced student must also complete additional assignments geared toward developing

and enhancing higher level critical thinking skills. These assignments require strenuous attention to detail in areas such as analysis, interpretation, and evaluation of literature as well as of their own writing. An extensive research paper is mandatory for all advanced students. For placement in Advanced Language Arts it is recommended that a student has scored Advanced in Reading on the PSSAs in 6th grade, 7th grade or on a 7th grade CDT. Academic and classroom performance will also be reviewed and considered.

### **Language Arts - 9181**

Language Arts is an integrated program which incorporates the skills of reading, writing, speaking, listening, thinking and technology using a variety of materials, media and methodologies. All students will study a variety of short stories, poems, a play and a novel. Writing abilities will be reinforced through the following genres: descriptive, expository, narrative and persuasive. Specific conventions and mechanics will be used to enhance the overall understanding of this integrated approach.

### **Language Arts Workshop - 9182**

This Language Arts Workshop emphasizes the integration of reading and writing. Students will write in response to a variety of reading assignments, including short stories, at least one novel, and drama. The reading and writing process will be highlighted within the context of each assignment. Vocabulary, spelling, and language usage and mechanics will be integrated into instruction. Students will be enrolled in Reading/Writing Edge B in conjunction with this course. Student placement in Language Arts Workshop and Reading/Writing Edge B (9684) will be based on PSSA scores and the CDT's. Eligibility is determined through a recommendation by the reading specialists, school counselors and administration.

### **Challenge Language Arts – 9179**

This Challenge Program is an accelerated Language Arts class for students who have been identified as mentally gifted and talented. The Challenge curriculum is based on the eighth grade curriculum with supplemental materials and activities designed to enrich and extend the curriculum in order to meet the needs of the highly motivated gifted learner. In addition to reading various materials in the eighth grade Prentice Hall literature anthology, students may also be required to read supplemental texts. Also, students will engage in an extensive vocabulary program as well as a comprehensive grammar program. Modes of writing and speaking in the course cover a variety of genres including descriptive, persuasive, informative and narrative. In order to tailor the program to individual interests and capitalize on the gifted student's personal thirst for knowledge, students will write a research paper on a teacher-approved topic of choice. The research unit is a comprehensive project intended to exercise critical thinking skills through the development of a thesis statement to the final paper defending a position.

## **SOCIAL STUDIES**

### **Advanced Civics, Government, and 18th Century History - 9280**

#### **Grade 8**

#### **Credit: 1.00**

This course provides a study of history (American and world) during the 18th century, as well as a one quarter seminar which focuses on the PA State and Core standards that govern Civics and Government at the state and local levels. The history portion of the course will focus on fulfilling the PA State and Core History, Economics and Geography standards through a study of the major events, concepts and thought patterns of the 18th century that have helped to shape our nation and world into the places they are today. The foundations of research methodologies, the use of technology tools to facilitate that research, and the products that reflect that research will be emphasized. The eighth grade curriculum requires advanced study and above average expectations. Students are expected to demonstrate critical thinking and problem solving skills, as well as developmental public speaking abilities. An emphasis is placed on research and the writing process. For placement in Advanced Language Arts it is recommended that a student has scored Advanced in Reading on the PSSAs in 6th grade, 7th grade or on a 7th grade CDT. Academic and classroom performance will also be reviewed and considered.

### **Civics, Government, and 18th Century History - 9281**

#### **Grade 8**

#### **Credit: 1.00**

This course provides a study of history (American and world) during the 18th century, as well as a one quarter seminar which focuses on the PA State and Core standards that

govern Civics and Government at the state and local levels. The history portion of the course will focus on fulfilling the PA State and Core History, Economics and Geography standards through a study of the major events, concepts and thought patterns of the 18th century that have helped to shape our nation and world into the places they are today. The root elements of research methodologies, the use of technology tools to facilitate that research, and the products that reflect that research will be emphasized. The eighth grade curriculum requires basic study and developmental expectations. Students are expected to demonstrate developmental critical thinking and problem solving skills, as well as preliminary public speaking abilities. Basic skills for research and the writing process will be developed.

## **SCIENCE**

### **Advanced Earth and Space Science - 9380**

This course is a general survey of earth and space sciences with topics covered in greater depth than the basic curriculum. Meteorology topics include variables of weather, severe weather and weather maps. Geology topics include characteristics of rocks and minerals, development of plate tectonics theory, earthquakes and volcanoes. The curriculum also focuses on oceans and shorelines, surface and ground water systems, the earth and moon as a system, as well as comparative planetary astronomy. Hands-on activities, student research, critical thinking skills, graphing, mapping are included. This course requires a greater proficiency in math and writing skills than the basic curriculum. For placement in Advanced Science it is recommended that a student has scored Advanced in Math and Advanced in Reading on the PSSAs in 6th grade, 7th grade or on a 7th grade CDT exam. Academic and classroom performance will also be reviewed and considered.

### **Earth and Space Science - 9381**

This course is a general survey of earth and space sciences. Meteorology topics include variables of weather, severe weather and weather maps. Geology topics include characteristics of rocks and minerals, development of plate tectonics theory, earthquakes and volcanoes. The curriculum also focuses on oceans and shorelines, surface and ground water systems, the earth and moon as a system, as well as comparative planetary astronomy. Hands-on activities and student research are included.

## **MATHEMATICS**

### **Algebra 2 H – 3110 (NCAA)**

(Prerequisite: 7th Grade Algebra 1)

(NOTE: This is a typical ninth grade honors level course leading an advanced student to AP Calculus AB in his/her senior year.)

This course is a continuation of Algebra 1. The emphasis is on systems of linear equations and inequalities, equations in three variables, solving quadratic equations by various methods, graphing quadratic functions, complex numbers, working with radical and rational expressions. Additional topics include logarithms, linear programming, graphing conic sections and the use of the graphing calculator. Computer software will be used at appropriate places in this course of study and a scientific calculator is highly recommended.

### **Algebra 2 CP – 3220 (NCAA)**

(Prerequisite: 7th Grade Algebra 1)

This course is a continuation of Algebra 1. The emphasis is on the Algebra 1 fundamentals, first degree equations and inequalities in two variables, solving quadratic equations, graphing quadratic functions, complex numbers, working with radical and rational expressions. A scientific calculator is highly recommended. The final course grade will be a major consideration for placement in Algebra 3, Discrete, or Transition.

### **Algebra 1 – 9580 (NCAA)**

(All students taking this course will take the Algebra 1 Keystone Exam in the Spring.)

This course is designed as a rigorous introduction to Algebra skills and concepts. Candidates for this course must possess excellent Pre Algebra skills including rational number skill, distributive property, combining like terms, solving multi-step equations and inequalities including variables on both sides, basic concept of slope,



and graphing a line given an equation in slope intercept form. The emphasis of the course is on working with linear and quadratic expressions, factoring polynomials, solving simple quadratic equations, graphing linear equations and systems of simultaneous equations, writing equations given applied descriptions or graphs, and writing equations given applied descriptions, graphs, or two points. Related skills and concept development will be integrated throughout the course. Calculators and computer software will be used at appropriate places in this course of study. A unit of high school credit is earned for all students who successfully complete Algebra 1 in their eighth grade year. This course grade will appear on the student's high school transcript and will be included in their GPA, cumulative GPA and class rank.

For placement in Algebra 1 it is recommended that a student have teacher recommendation and an Advanced score on the PSSAs. A score of 84% on the end of the year final Algebra Readiness Assessment is also strongly recommended.

#### **Pre-Algebra 6/6 - 9581**

#### **Pre-Algebra 9/6 - 9583**

#### **Pre-Algebra 12/6 – 9583CT**

This course is designed to provide smooth transition from elementary arithmetic skills and concepts to Algebra 1 in a single year. While students strengthen arithmetic skills, the focus of the course will be on solving linear equations involving rational numbers through an algebraic approach. Students will also solve problems involving applications of these skills. Calculators and computer software will be used at appropriate places in this course of study.

Pre-Algebra 6/6 is recommended for a student who has scored Proficient/Advanced on their PSSAs. This course is recommended for any student who is not eligible for Algebra 1 and needs to refine and improve their pre-algebra skills.

Pre-Algebra 9/6 is recommended for a student who has scored Basic or Proficient on their PSSAs. These students will require more time in pre-algebra class in order to acquire the skills necessary to move on to Algebra 1. This class will meet everyday in a six day cycle, but as a double period three days per the six day cycle.

Pre-Algebra 12/6 is recommended for a student who has scored Basic/Below Basic on their PSSAs. These students will require more time in pre algebra in order to acquire the skills necessary to move on to Algebra 1 or Algebra 1A. This class will meet everyday in a six day cycle, but as a double period three days per the six day cycle.

## **READING**

#### **Advanced Reading (8) - 9680**

#### **Reading (8) - 9681**

#### **Reading Workshop (8) - 9682**

This reading course is for students who need world-class reading skills. The eighth grade reading course is designed to develop independent, strategic readers who are capable of engaging in a variety of literacy tasks. Instruction will target comprehension strategies. Because of the demands on reading skills of Middle Level/Junior High students, strategies for reading content material will be developed. The comprehension strategies will be applied to content area materials. Reading selections will be leveled to match the achievement level of the students. To help students self-assess their reading performances, they will learn to use checklists based on the academic standards and the Pennsylvania Reading Rubric. This course will also encourage students to read more. The Standards set the goal for students to read 25 books per year. This course will encourage students to read 25 books. This course will be offered to all students with the exception of those students who begin their study of World Languages in eighth grade. For placement in Advanced Reading, it is recommended that a student has scored Advanced in Reading on the PSSAs in 6th grade, 7th grade or on a 7th grade CDT. Academic and classroom performance will also be considered. For placement in Reading Workshop, a student must have scored Basic/Below Basic on the PSSAs in 6th grade, 7th grade or on a 7th grade CDT exam. Grades, teacher or school counselor recommendation will also be considered.

#### **Reading/Writing Edge A (8) - 9683**

#### **Reading/Writing Edge B (8) - 9684**

This program is designed for students who have been identified as needing additional instruction with reading and/or writing. Students will be assigned to Reading/Writing Edge 8 based on their scores on the state reading or writing assessment. Placement of new students to the district will be determined by the PSSA or assessment scores from the previous school. If a student does not have a state assessment score, a pre-test will be given to determine eligibility. Students will be placed in Reading/Writing Edge 9683 or 9684 depending on the degree of support needed.

This course will be required instead of study hall or in some cases Band, Orchestra, or Chorus. The major purpose of the course is to give students an edge in their reading and writing performance to help them meet Pennsylvania Academic Standards in reading and writing. Students will also learn strategies to improve their academic performance in all subject areas. A standardized test will be given during the course to check student progress. The program is designed to meet the individual needs and does not count as the original eighth grade Reading or Language Arts credit. This course is offered three days out of a six-day cycle throughout the school year.

## **WORLD LANGUAGES**

A World Language class will be available to current 8th graders who meet the following requirements:

- \* In order to be considered for this program, an eighth grade World Language Application must be completed.
- \* Advanced grade average (Quarters 1 through 3) in 7th Grade Reading (90% average grade or higher)
- \* Advanced grade average (Quarters 1 through 3) in 7th Grade Language Arts (90% average grade or higher)
- \* Advanced Performance shown on Reading Assessments (Advanced on 6th Grade PSSA Reading. A student scoring Proficient on the 6th grade PSSA, may still be eligible if he/she scored at the Advanced level on one or more of the CDT Reading assessments during the 7th grade year.)

Parents may appeal the decision if the student scores Advanced on the 7th grade PSSA Reading.

By beginning the World Language program in eighth grade, students will have the opportunity to complete the five year World Language Program while at Stroudsburg High School. If a student is not eligible for the eighth (8th) grade World Language Program, a language class becomes available as an elective to students when they enter the ninth (9th) grade. It is essential to understand that this program is a college preparatory and honors level class, and if taken, the student will have the opportunity to complete four (4) years of a World Language at Stroudsburg High School.

A unit of high school credit is earned for all students who pass World Language in their eighth grade year. The course and final grade will appear on the student's high school transcript and will be included in their GPA, cumulative GPA and class rank.

#### **French 1 CP – 6011 (NCAA)**

French 1 is a college preparatory course that familiarizes the beginning student with the French sound system, basic grammar, basic vocabulary and introduces French culture. There is an emphasis on participation to promote speaking proficiency. In order to be considered for this program, an eighth grade World Language Application must be completed.

#### **German 1 CP – 6021 (NCAA)**

*(Tentative course offering for School Year 2016-2017)*

German 1 is a college preparatory course that familiarizes the beginning student with the German sound system, basic grammar, basic vocabulary and introduces German culture. Speaking of German is necessary in order to develop proficiency. Written work includes homework, dialogues and brief paragraphs. In order to be considered for this program, an eighth grade World Language Application must be completed.

**Spanish 1 CP – 6031 (NCAA)**

Spanish 1 is a college preparatory course that familiarizes the beginning student with the Spanish sound system, basic grammar, basic vocabulary and introduces Hispanic culture. Speaking of Spanish is necessary in order to develop proficiency. In order to be considered for this program, an eighth grade World Language Application must be completed.

**PHYSICAL EDUCATION / HEALTH / CAREERS / COMPUTER SKILLS ROTATION****Physical Education - 9780**

This course includes a comprehensive program of team sports, lifetime activities, and fitness exercises with an emphasis on personal fitness and growth. Physical education is taught in an atmosphere which provides the opportunity to grow physically, emotionally and socially in a supportive and cooperative environment. Fitness tests are mandatory each year. This course meets 3 days per 6 day cycle through a semester.

**Career Awareness - 9781**

This course, a component of the district's career development graduation project, provides opportunities for students to gather information about career choices in which they are interested. Career decisions are significant decisions which should not be entered into haphazardly. The students will develop a career plan of their choice which will in turn aid them in selecting their four year program sequence in grades nine through twelve. This course meets 3 days per 6 day cycle through a semester.

**Health – 9782**

This course provides a basic knowledge of health and wellness leading to the development of skills, attitudes, and behaviors conducive to mental, physical, emotional and social well-being. Health education promotes the practice related to the development of a healthy lifestyle. This course must be taken in grade 8 and includes the following health content areas: mental and emotional health, nutrition, alcohol, tobacco, and other drugs, and communicable and chronic diseases. This course meets 3 days per 6 day cycle through a semester.

**Computer Skills – 9783**

This course begins with a review of keyboarding skills and techniques. Students will extend their introductory skills learned in seventh grade in word processing, spreadsheet, presentation and desktop publishing concepts. This course meets 3 days per 6 day cycle through a semester.

**ART / FAMILY & CONSUMER SCIENCE / TECHNOLOGY EDUCATION ELECTIVES****Intro to 2D Design – 9785A (45 days)**

This course is an introductory course in the visual arts, as related to two-dimensional art. Students will learn basic design skills while experiencing a variety of media and techniques. Students will have the opportunity to use creative thinking and problem solving skill while designing projects. Students will also explore the potential careers in the STeAM (Science Technology Engineering Arts and Math) fields, as well as other related fields of study. This course meets 3 days per 6 day cycle through a semester.

**Art through the Years – 9785B (45 days)**

This course will explore art from different periods in time. Students will create their own art inspired by some of the great masters, but adding their own unique twist to their creations. Students will also explore the potential careers in the STeAM (Science Technology Engineering Arts and Math) fields, as well as other related fields of study. This course meets 3 days per 6 day cycle through a semester.

**Art from Many Hands – 9785C (45 days)**

Students will have the chance to explore art from many cultures all over the world. Their own works will be inspired by art from different countries, as well as our own. A variety of media will be used to create their own original works. Students will also explore the potential careers in the STeAM (Science Technology Engineering Arts and Math) fields, as well as other related fields of study. This course meets 3 days per 6 day cycle through a semester.

**Art and Architecture – 9785D (45 days)**

In this course, students will create their own art based on some of the architectural styles used throughout the ages. Student artwork may be inspired by architectural features such as: columns, arches, and stained glass window designs. Students will also explore the potential careers in the STeAM (Science Technology Engineering Arts and Math) fields, as well as other related fields of study. This course meets 3 days per 6 day cycle through a semester.

**The World of Baking – 9786A (45 days)**

Students will participate in activities that will focus on baking. They will learn to work with leavening agents to prepare baked items such as muffins, breads, cookies, and cakes. The skills of applied math and science will be used in the production of items that lead to self sufficiency and to marketability. Students will calculate and examine factors that influence the difference between cost of production and the cost of retail thus resulting in profit margin. Students will examine the financial and environmental impact of the decision to produce or to buy. This class is based on the Science, Technology, Engineering, and Math (STeAM) philosophy of teaching across the curriculum and core standards. This course meets 3 days per 6 day cycle through a semester.

**Cooking for Life – 9786B (45 days)**

Students will participate in activities that will focus on cooking. They will learn to make main courses and side dishes. The skills of applied math and science will be used in the production of items that lead to self-sufficiency and to marketability. Students will calculate and examine factors that influence the difference between cost of production and the cost of retail thus resulting in profit margin. Students will examine the financial and environmental impact of the decision to produce or to buy. This class is based on the Science, Technology, Engineering, and Math (STeAM) philosophy of teaching across the curriculum and core standards. This course meets 3 days per 6 day cycle through a semester.

**Textiles & Sewing: Make and Take – 9786C (45 days)**

Students will participate in activities that will focus on textiles and sewing skills. Items made during this class may be kept by the student. Students will learn to interpret pattern directions and markings. They will learn to use sewing tools. Students will learn to hand sew and to operate and effectively use a sewing machine. The skills of applied math and science will be used in the production of items that lead to self-sufficiency and to marketability. Students will calculate and examine factors that influence the difference between cost of production and the cost of retail thus resulting in profit margin. Students will examine the financial and environmental impact of the decision to produce, redesign, reuse, repurpose, or buy new. It is based on the Science, Technology, Engineering, and Math (STeAM) philosophy of teaching across the curriculum and core standards. This course meets 3 days per 6 day cycle through a semester.

**Textiles and Sewing: Community Service – 9786D (45 days)**

Students will participate in activities that will focus on textile and sewing skills for community service. The items made in this class will be donated to community organizations such as AWSOME, Animals Can't Talk, The American Red Cross and Shelters. The skills of applied math and science will be used in the production of items that lead to self-sufficiency and to marketability. Students will calculate and examine factors that influence the difference between cost of production and the cost of retail thus resulting in profit margin. Students will examine the financial and environmental impact of the decision to produce, redesign, reuse, repurpose, or buy new. It is based on the Science, Technology, Engineering, and Math (STeAM) philosophy of teaching across the curriculum and core standards. This course meets 3 days per 6 day cycle through a semester.

**SeaPerch – 9787A (45 days)**

Experience the world of underwater robotics. Students will design and build an underwater remotely operated vehicle (ROV). This program teaches students how to build an underwater robot, build a propulsion system, develop a controller, and investigate weight and buoyancy. Students will also explore the potential careers in the STeAM (Science Technology Engineering Arts and Math) fields, as well as other related fields of study. This course meets 3 days per 6 day cycle through a semester.

### **Manufacturing and Construction – 9787B (45 days)**

Experience the world of manufacturing and construction. This program teaches students how to use basic hand and power tools as they design and build projects using wood and/or metal and/or plastic. Students will learn about manufacturing and construction principles used in the respective fields. Students will also explore the potential careers in the STeAM (Science Technology Engineering Arts and Math) fields, as well as other related fields of study. This course meets 3 days per 6 day cycle through a semester.

### **Aerospace and Flight – 9787C (45 days)**

Experience the world of flight and rocketry. Students will design and build anything from kites to rockets. This program will teach the students about the principles and history of flight and propulsion systems through a series of design it and build it assignments. Students will also explore the potential careers in the STeAM (Science Technology Engineering Arts and Math) fields, as well as other related fields of study. This course meets 3 days per 6 day cycle through a semester.

### **Green Energy – 9787D (45 days)**

Experience the world of sustainable energy. Students will design, build and test solar collectors, windmills and other green energy producing systems. Students will learn about the production and delivery of electrical energy for residential use. Students will also explore the potential careers in the STeAM (Science Technology Engineering Arts and Math) fields, as well as other related fields of study. This course meets 3 days per 6 day cycle through a semester.

## **MUSIC ELECTIVES**

### **Concert Band - 9980**

This full year course is open to all eighth grade students with previous concert band experience. No audition is necessary; however, recommendation from the seventh grade band director may be used. As a member of the Concert Band, each student will receive one group lesson, and attend three ensemble rehearsals during the six-day cycle. There will be a required music performance evaluation for all concert band members at the end of each semester. The students will develop a repertoire of instrumental music in a variety of styles, develop rehearsal and practice techniques, and be introduced to beginning sight-reading. Opportunities will also be given for extra-curricular activities such as Marching Band and Jazz Band. This course is offered three days out of a six-day cycle. This course is meets three days out of a six-day cycle throughout the school year.

### **Orchestra - 9982**

Membership in the eighth grade Orchestra will be determined by audition and/or recommendation of the Orchestra Directors. As a member of the Orchestra, each student will receive one lesson, and attend three ensemble rehearsals during the six-day cycle. There will be a musical performance evaluation for all Orchestra members at the end of each marking period. Prerequisite: three years ensemble experience or the equivalent and recommendation of the Orchestra Director. This course meets three days out of a six-day cycle throughout the school year.

### **Chorus - 9985**

This full year course is open to all eighth grade students interested in singing. The student will develop a repertoire of vocal music in a variety of styles and languages, develop rehearsal and vocal techniques, be introduced to beginning sight singing, and will present a number of public performances. No audition is necessary; however, a recommendation from the seventh grade Choral Director may be used. Students will be eligible to audition for the District X Songfest. Opportunities will also be given for extra-curricular activities such as small ensembles, show choir and musical productions. These groups will be auditioned. This course meets three days out of a six-day cycle throughout the school year.

## **SPECIAL EDUCATION**

The Stroudsburg Area School District either directly, or through contract with other education agencies, provides special education programs and services that are required to meet the needs of students with disabilities. An Individualized Education Program (IEP) is developed for those students meeting eligibility for special education services on a yearly basis. The IEP team provides the building level team with program and course recommendations to meet the specific and individual needs of the student. Both regular education and special education

classes are available to students with disabilities, as needed to address needs outlined within the IEP. If a student with an IEP has a need for a course or program that is not listed in this Program of Studies, that course or program may be added to the student's schedule through the IEP process.

## **ENGLISH AS A SECOND LANGUAGE**

The ESL Program is offered to any student whose primary language is something other than English. The primary objective of the ESL Program is to promote the acceleration of English skills. Emphasis is placed on developing oral and written language skills. Students will be identified for this program by fluency level (beginning, intermediate, and advanced) and will receive instruction accordingly. Based upon an English language proficiency evaluation, students will receive one to five ESL periods of instruction per day.

### **ESL Support 8 FY – 9126**

### **ESL Support 8 3/6 - 9127**

The program is available to ESL students who have been identified as needing additional instruction and practice with basic reading, language art skills and study skills. Development of improved study strategies is stressed. Students receive help with content material and assignments. This program is individualized to meet the needs of the student and does not count as original language arts credits. This course meets three days out of a six-day cycle or 6 days out of a 6 day cycle throughout the school year.

### **Language Arts 1 ESL – 9121**

### **Language Arts 2 ESL – 9122**

### **Language Arts 3 ESL - 9123**

### **Language Arts 4 ESL - 9124**

Students engage in listening, speaking, reading and writing English through an integrated language arts curriculum using materials for English language acquisition, literature and other supplemental materials. Building both on their prior knowledge and on newly introduced material, they prepare to enter academic content classes. They become familiar with the culture and structure of an American school and the community. Placement is made following assessment by the ESL teacher.



# Course Planning Chart

This course planning chart is being provided to help you outline your past, present and future course selections from grades 9 through 12 in preparation for meeting the graduation requirements. Completing this chart will assist students and their parents in understanding the sequence of courses needed to accomplish their academic and career planning goals. Students may earn up to 8.0 credits per year. Be sure to check the credit value of every course when making your decisions.

	Grade 9	Grade 10	Grade 11	Grade 12
<b>English</b>				
<b>Social Studies</b>				X
<b>Mathematics</b>				
<b>Science</b>				
<b>Physical Education</b>	.25 Credit Phys. Ed.	.25 Credit Phys. Ed.	.25 Credit Phys. Ed.	.25 Credit Phys. Ed.
Quarter Credit Requirements	X	Survey of Ecological Issues	Health	X
Quarter Credit Requirements	X	Engineering & Technology Concepts	X	X
Quarter Credit Requirements	This is Your Life!	Career Planning	X	X
<b>Arts/ Humanities</b>			X	X
<b>Electives</b> (Need a minimum of 4.0 credits)				
<b>Electives</b>				
<b>Electives</b>				

## Below are listed some guidelines for completing this planning chart:

**English:** Each student must include 1.0 credit of English each year of High School. Based on teacher and counselor recommendations, you and your parents decide which level English class you will take to fulfill these requirements. Students may not use elective classes to substitute for the required English courses.

**Social Studies:** Each student must include 3.0 credits in Social Studies over three years of High School\*. Based on teacher and counselor recommendations, you and your parents decide which level Social Studies class you will take to fulfill these requirements. Students may not use elective classes (except for AP courses) to substitute for the required Social Studies courses.

**Mathematics:** Each student must complete 4.0 credits in Mathematics. Based on teacher and counselor recommendations, you and your parents decide which level Mathematics class you will take to fulfill these requirements.

**Science:** Each student must complete 4.0 credits in Science\*. Based on teacher and counselor recommendations, you and your parents decide which level Science class you will take to fulfill these requirements. Students may not use elective courses to substitute for the required Science courses. The fourth required science credit may be fulfilled using any other science course. Students are welcome to take more than one science course per year.

**Required Quarter-credit Courses:** Each student must take Phys. Ed. each year of High School. Health is required in grade 11. This is Your Life is required in grade 9. Ecological Issues, Career Planning, and one Technology Education course are required for graduation.

**Arts & Humanities:** Students are required to take at least 2.0 credits in elective courses from any department except Math, Science, Business and Health & PE to fulfill this requirement.

**Electives:** Students must have a minimum of four electives in order to meet graduation requirements. Students are encouraged to elect classes that will meet their future post secondary educational goals, or occupational goals.

\* Students who attend MCTI for three years are waived from taking a science elective.