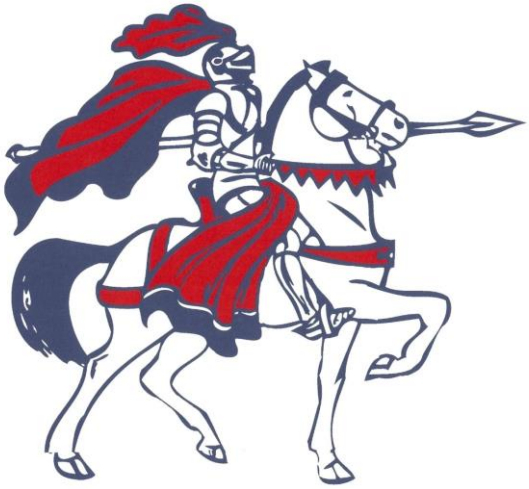
# CARBONDALE AREA JR-SR HIGH SCHOOL

# COURSE SELECTION GUIDE

Academic Year
2023 – 2024



This guide is a resource for students and parents to engage in educational and career planning.

101 Brooklyn Street
Carbondale, PA 18407
1-844-330-2273
www.carbondalearea.org

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Dear Parents and Guardians,

Carbondale Area Jr./Sr. High School is committed to providing your child with the best education possible and that includes challenging every student to reach his or her full potential. Our goal is to ensure that your child will have a strong foundation for future success in whatever College or Career they choose to enter. We will accomplish this through our outstanding educational system where highly effective classroom teachers, using a rich and rigorous curriculum and differentiated instruction will help all students meet the PA academic standards.

This course selection guide provides course descriptions that will assist you and your child in selecting the proper courses to meet their needs and interests. We encourage you to take an active role in developing your child's educational plan as we strive to create high expectations and learning experiences for a successful academic career.

Respectfully,

Joseph W. Farrell
Principal
Carbondale Area Jr./Sr. High School

Respectfully,

Lawrence A. Gabriel III
Assistant Principal
Carbondale Area Jr./Sr. High School

# GUIDANCE DEPARTMENT CONTACT INFORMATION


| | | |
|---|---|---|
| Mrs. Megan Ruggiero | megan.ruggiero@carbondalearea.org | 1-844-330-2273 ext. 1196 |
| Mrs. Keri Warhola | keri.warhola@carbondalearea.org | 1-844-330-2273 ext. 1198 |


# INTRODUCTION TO THE COURSE SELECTION PROCESS

This course selection guide is intended to assist students in grades 8 – 11 select high school courses for grades 9 – 12. School counselors, teachers, and the principal make placement and scheduling recommendations for incoming 7th, as well as 8th grade students, based on the students' academic and standardized test performance and learning needs. This course selection includes course descriptions for all courses offered in grades 7 – 12 in the Carbondale Area School District. Every attempt will be made to accommodate course requests when students meet all eligibility criteria. However, some courses, class periods, schedule options, or suggested class size limitations may not be available based upon scheduling conflicts, number of students, staffing limitations, and other considerations.

# LEVEL RECOMMENDATION GUIDELINES

**Advanced Placement**

This level is for academically talented college preparatory students whose abilities, interests, and demonstrated levels of performance show they can/will meet the demands of difficult college work in high school. Advanced Placement classes assume students already have strong foundations in the specific subject area of the course and are seriously interested in preparing to take the subject area AP exam.

**Honors**

This level is for high achieving students who are capable of higher levels of thinking and demonstrate the ability to perform academically in a highly competent manner. This level requires the student to be responsible, mature, and have well-developed study skills which enable the student to pursue independent learning.

**Academic**

This level is for students who are preparing for post-secondary college and career opportunities. This level requires the student to be responsible, mature, and have well-developed study skills which enable the student to pursue their academic and career goals.

# GRADUATION REQUIREMENTS

Successful completion of 23 or more credits is required for graduation. Students in grades 9-12 are required to enroll in a minimum of 26 credits over four years with at least 6 full credit courses (in 10th through 12th grade) and Physical Education each year. Both Health and Physical Education are required in 12th grade. The minimum credit requirements for each subject area are listed below.

| | |
|---|---|
| English | 4.0 credits |
| Science | 3.0 credits |
| Math | 3.0 credits |
| Social Studies | 3.0 credits |
| Arts/Humanities | 2.0 credits |
| Physical Education | 2.0 credits |
| Health | 0.5 credits |
| Electives | 5.5 credits |
| **TOTAL** | **23 credits** |

# ACT 158 of 2018 – Pathways to Graduation

Act 158 of 2018 was signed into law by Governor Tom Wolf on October 24, 2018. It provides alternatives to Pennsylvania's statewide requirement of attaining proficiency on the three [3] end-of-course Keystone Exams – Algebra I, Literature, and Biology – through which a student may achieve statewide graduation requirements. Effective with the graduating class of 2023, students have the option to demonstrate postsecondary preparedness through one of four additional pathways that more fully illustrate college, career, and community readiness. Keystone Exams will continue as the statewide assessment Pennsylvania uses to comply with accountability requirements set forth in the federal Every Student Succeeds Act (ESSA). Although students will no longer be required to achieve proficiency on the Keystone Exams to meet statewide graduation requirements, students must take the Keystone Exams for purposes of federal accountability. Failure to do so will affect a Local Education Agency (LEA) and school's participation rate.

Detailed information will be provided to students/parents. You can find detailed information at www.pdesas.org

# PENNSYLVANIA PATHWAYS TO GRADUATION (CLASS OF 2023 AND BEYOND)

1. KEYSTONE PROFICIENCY PATHWAY
2. KEYSTONE COMPOSITE PATHWAY
3. CAREER AND TECHNICAL EDUCATION [CTE] CONCENTRATOR
4. ALTERNATIVE ASSESSMENT PATHWAY
5. EVIDENCE-BASED PATHWAY

# 1) KEYSTONE PROFICIENCY PATHWAY

- Score Proficient or Advanced on each Keystone Exam
    - Algebra I
    - Literature
    - Biology

# 2) KEYSTONE COMPOSITE PATHWAY

- At least 1 Keystone Exam scaled score is 1500 or Greater.
- No Keystone Exam score is Below Basic
- The Keystone Exam 3-score composite is 4452 or Greater.

# 3) CAREER AND TECHNICAL EDUCATION [CTE] CONCENTRATOR

- Meet locally established, grade-based requirements for Keystone content in which the student is less than Proficient <u>AND . . .</u>
    - Attain an Industry-based competency certification (OR)
    - Demonstrate a high likelihood of success on an approved industry-based competency assessment (OR)
    - Demonstrate readiness for continued engagement in a CTE Concentrator Program of Study

# 4) ALTERNATIVE ASSESSMENT PATHWAY

- Meet locally established, grade-based requirements for each Keystone content area in which the student has no score or a score of less than Proficient and one of the following:
    - Attainment of an established score on an approved Alternative Assessment ACT [21], ASVAB AFQT [31], PSAT/NMSQT [970], or SAT [1010]
    - Attainment of a 3 or higher on an Advanced Placement [AP] Exam[s] in a content area related to each Keystone content area in which a less than Proficient score was attained.
    - Successful completion of dual enrollment course[s] related to each Keystone content area in which a less than Proficient was attained
    - Acceptance into an accredited, non-profit Institution of Higher Education [IHE] 4-year program for college-level coursework
    - Successful completion of a pre-apprenticeship program

# 5) EVIDENCED BASED PATHWAY

- Meet locally established, grade-based requirements for each Keystone content area in which the student has no score or a score of less than Proficient and must provide *three [3]* pieces of evidence, as outlined below, consistent with the student's goals and career plans:

<u>SECTION ONE</u> – At least one piece of evidence required from Section One.

- Attainment of 3 or better on any AP Exam.
- Successful completion of any dual enrollment or postsecondary course.
- Industry-recognized credential.
- Acceptance into an other-than-4-year Institution of Higher Education (I.H.E.) for college-level coursework.

<u>SECTION TWO</u> – No more than TWO (2) pieces of evidence permissible from Section 2.

- Attainment of Proficient or Advanced on any Keystone Exam.
- Successful completion of a service-learning project.
- Letter guaranteeing full-time employment or military enlistment.
- Completion of an internship, externship, or cooperative education program.
- Compliance with NCAA Division 2 Academic Requirements.

# CLASS RANK/ GRADING SYSTEM/WEIGHTED GRADES

Class rank is cumulative, weighted, and is based upon all full credit courses taken in grades 9 – 12. Advanced Placement courses in Chemistry, English, Math, and American History, AP Biology, AP Computer Science Principles, Physics, and all Honors courses are weighted by a factor of +4. Rank is available after every marking period. All students except Foreign Exchange students are ranked. A student who transfers to Carbondale Area School District will be assigned a class rank after being enrolled for at least two (2) semesters. A student transferring as a senior will not be ranked. A student must be enrolled in the high school for four (4) full consecutive years (Grades 9 – 12) to be considered Valedictorian, Salutatorian, or Class Poet. In addition to meeting all other graduation requirements he/she must also complete two (2) years of a foreign language and complete three (3) Advanced Placement courses.

Letter and grade point average conversions are listed below:

| | | |
|---|---|---|
| 99-100 | A+ | 3.9-4.0 |
| 95-98 | A | 3.5-3.8 |
| 93-94 | A- | 3.3-3.4 |
| 91-92 | B+ | 3.1-3.2 |
| 87-90 | B | 2.7-3.0 |
| 85-86 | B- | 2.5-2.6 |
| 83-84 | C+ | 2.3-2.4 |
| 77-82 | C | 1.7-2.2 |
| 75-76 | C- | 1.5-1.6 |
| 70-74 | D | 1.0-1.4 |
| 00-69 | F | 0 |

# HONOR ROLL

Students who have attained an overall average of 93-100 in all major subjects are designated as having achieved Distinguished Academic Honors. Students who have attained an overall average of 87-92 in all major subject areas are designated as having achieved Second Honors. A failing grade or an incomplete grade in any subject disqualifies a student from the Honor Roll regardless of his/her overall average.

# NATIONAL HONOR SOCIETY
# NATIONAL JUNIOR HONOR SOCIETY

Selection to the National Honor Society and National Junior Honor Society is based on scholarship, character, leadership, and service. To be eligible for the membership consideration, a student must have a cumulative average of 90 or above for six consecutive quarters.

The National Honor Society and National Junior Honor Society are national organizations that recognize outstanding students who demonstrate high levels of scholarship, leadership, service, and character, with the additional attribute of citizenship for NJHS. To qualify for and maintain

membership in the Carbondale Area Chapters of NHS or NJHS, students must meet the following criteria.

7th grade students must maintain a 90 average for the first two quarters, and then apply for membership by writing an application essay and seeking teacher recommendations. 8th and 9th grade students who were not previously inducted can also apply if they maintained a 90 overall for the previous school year and a 90 for the first two quarters of their current school year. To maintain membership, students must perform 10 hours of community service throughout the year and not have more than two marking periods where their overall average falls below 90 percent.

10th grade students must maintain a 90 average for the first two quarters, plus have had an overall average of 90 or better in 9th grade, and then apply for membership by writing an application essay and seeking teacher recommendations. 11th and 12th grade students who were not previously inducted can also apply if they maintained a 90 overall for the previous school year and a 90 for the first two quarters of their current school year. To maintain membership, students must perform 15 hours of community service throughout the year and not have more than two marking periods where their overall average falls below 90 percent.

# CAREER TECHNOLOGY CENTER

The Career Technology Center of Lackawanna County (CTCLC) offers 16 career areas to 8 local school districts in addition to non-public and other non-participating districts when requested.

Programs are designed to be three years in length, beginning in sophomore year.

**CTCLC Program Areas Include:**
Automated Manufacturing Technology
Automotive Technology
Building Mechanics Trades
Carpentry
Child Development
Collision Repair
Cosmetology
Creative Communications, Digital Communications
Creative Communications, Illustration and Design
Creative Communications, Print Production and Technology
Culinary Arts
Electrical Construction & Maintenance
Health Occupations
Heating, Ventilation, and Air Conditioning (HVAC)
Information Systems Technology, Computer Networking Infrastructure
Information Systems Technology, Cyber Security
Masonry
Plumbing & Heating
Protective Services
Service Occupations
Welding Technology

# COURSE OFFERINGS AND DESCRIPTIONS

## DUAL ENROLLMENT

Students in grades 11 and 12 may qualify and earn college and high school credit concurrently through dual enrollment in Carbondale Area School District. Dual enrollment allows students the opportunity to earn college credit through courses at Carbondale Area that are taught by certified adjunct faculty at Lackawanna College and Keystone College. These courses are: U.S. History I (CAHS-AP History); Principles of Accounting (CAHS-Accounting); College Algebra (CAHS-Trigonometry/Pre-Calculus); Introduction to Statistics and Data Analysis (CAHS-Probability and Statistics); Introduction to Literature (CAHS-English 12/AP English); College Writing (CAHS-Advanced Composition); General Chemistry I (CAHS-Chemistry); General Chemistry I Lab (CAHS-Chemistry Lab), Anatomy & Physiology (CAHS-Honors Anatomy & Physiology), Pre-Calculus (CAHS Honors Pre-Calc/Trig), Calculus I (CAHS AP Math), Elementary Spanish I (CAHS Spanish 3), Elementary Spanish II (CAHS Spanish 4), Intro to Information Technology (CAHS AP Computer Science Principles).

In addition, students may qualify and earn college and high school credit concurrently through dual enrollment in Carbondale Area School District through already existing courses at Lackawanna College and Johnson College. Courses may be in person (on campus) or online.

Although there are costs associated with dual enrollment courses (tuition, books, and fees), it would be advantageous for the student to enroll because tuition costs are offered at a reduced rate.

# 7TH GRADE – CURRICULUM GUIDE

1. English Language Arts – every day
2. Reading – every day
3. Math – every day
4. American Cultures I – every day
5. General Science 7 – every day
6. Art 7 – 3 days per cycle
7. Phys. Ed. – 3 days per cycle
8. Music Elective – 3 days per cycle (Music, Band, or Chorus)
9. Library Science – 1 day per cycle

## ENGLISH LANGUAGE ARTS 7 (ELA 7) – COURSE #170

This course is designed to engage students in the writing process through distinct mode-specific writing and examination of grammatical concepts in the context of their own compositions. In alignment with the Pennsylvania Core Standards, students will write arguments to support claims with clear reasons and relevant evidence, write informational texts to examine topics and convey ideas, and write narratives to develop real or imagined experiences or events. Students will also acquire enhanced strategies to write evidence-based analysis of literary and informational texts. Course writing assignments will provide the foundation for students to refine and demonstrate a command of standard English grammar and writing conventions.

## ENGLISH LANGUAGE ARTS 7A (ELA 7A) – COURSE #171

This course is designed to engage students in the writing process through distinct mode-specific writing and examination of grammatical concepts in the context of their own compositions. In alignment with the Pennsylvania Core Standards, students will write arguments to support claims with clear reasons and relevant evidence, write informational texts to examine topics and convey ideas, and write narratives to develop real or imagined experiences or events. Students will also acquire enhanced strategies to write evidence-based analysis of literary and informational texts. Course writing assignments will provide the foundation for students to refine and demonstrate a command of standard English grammar and writing conventions. Remediation for the general level is addressed in daily lessons and assignments as needed.

## READING 7 – COURSE #5017

The purpose of this course is to provide instruction that enables students to accelerate the development of reading and analyzing literary fiction and informational texts. In alignment with the Pennsylvania Core Standards, instruction will emphasize reading comprehension, evidence-based writing, and vocabulary study using a variety of literary and informational texts encompassing a broad range of text structures, genres, and levels of complexity. This differentiated reading course incorporates guided practice and modeling of reading strategies that will enable students to improve their overall reading performance. Enrollment in this course is based on teacher recommendation.

## READING II 7 – COURSE #5057

The purpose of this course is to provide instruction that enables students to accelerate the development of reading and analyzing literary fiction and informational texts. In alignment with the Pennsylvania Core Standards, instruction will emphasize reading comprehension, evidence-based writing, and vocabulary study using a variety of literary and informational texts encompassing a broad range of text structures, genres, and levels of complexity. This differentiated reading course incorporates whole group, small group, one on one instruction with intensive guided practice and modeling of reading strategies that will enable students to improve their overall reading performance. Enrollment in this course is based on teacher recommendation.

## MATH 7 – COURSE #471

The Math 7 course is a highly rigorous course that includes the arithmetic of, as well as converting between, all types of rational numbers – whole numbers, fractions, mixed numbers, terminating decimals, repeating decimals, percentages, and signed numbers. Proportional relationships are explored through the use of ratios, unit rates, and constant of proportionality, simple interest, tax, tips, fees, commission, markup/markdown, and percent of increase/decrease. In addition to signed numbers, the pre-algebra concepts of variables; generating and creating equivalent expressions; and writing, solving, and graphing equations and inequalities are introduced. Also integrated are a variety of geometry topics such as scale drawings, triangle properties, triangle inequality theorem, slicing three-dimensional figures, angle relationships, circumference, area, surface area, and volume. Lastly addressed are the concepts of statistics and probability which include random sampling, drawing inferences about populations, measures of central tendency, variability, simple/compound probability, and likelihood of events occurring.

Incorporated throughout the covered topics is calculator/technology use and multi-step applications/word problems that relate mathematical concepts to real life problem solving. The course curriculum, content, objectives, instruction, activities, and assessments are aligned with and prepare students to meet the Pennsylvania 7th Grade Common Core Standards for Mathematics.

**GENERAL MATH 7 – COURSE #472**

The General Math 7 course includes the arithmetic of, as well as converting between, all types of rational numbers – whole numbers, fractions, mixed numbers, terminating decimals, repeating decimals, percentages, and signed numbers. Proportional relationships are explored through the use of ratios, unit rates, and constant of proportionality, simple interest, tax, tips, fees, commission, markup/markdown, and percent of increase/decrease. In addition to signed numbers, the pre-algebra concepts of variables; generating and creating equivalent expressions; and writing, solving, and graphing equations and inequalities are introduced. Also integrated are a variety of geometry topics such as scale drawings, triangle properties, triangle inequality theorem, slicing three-dimensional figures, angle relationships, circumference, area, surface area, and volume. Lastly addressed are the concepts of statistics and probability which include random sampling, drawing inferences about populations, measures of central tendency, variability, simple/compound probability, and likelihood of events occurring. Incorporated throughout the covered topics is calculator/technology use and multi-step applications/word problems that relate mathematical ideas to real life problem solving. The course curriculum, content, objectives, instruction, activities, and assessments are aligned with and prepare students to meet the Pennsylvania 7th Grade Common Core Standards for Mathematics.

**GENERAL SCIENCE 7 – COURSE #370**

In this course students are engaged in a comprehensive study of all living things and their environment. Students learn how energy, change over time and stability play a major role in how things function. Students are involved in a variety of activities that will lead to a greater understanding of the world around them. Students begin the year by learning about the scientific method and scientific processes. Students then move on to cell, learning about its composition and functions. The second half of the year focuses on an overview of the organisms that make up this planet. The students end the year by focusing on the human body and its systems.

**AMERICAN CULTURES I – COURSE #272**

American Cultures I is a survey of the social, political, economic, cultural, and intellectual history of the United States from the pre-colonial era to the Civil War. American Cultures I examine colonization, the American Revolution, establishment of the Constitution, immigration and expansion of the nation, the War of 1812, and the events leading up to and during the Civil War. Themes that are covered in American Cultures I include: American culture, civil and political rights, technological change, economic change, immigration and migration, the formation and growth of the federal government, and the study of U.S. foreign and domestic policy throughout the period up to and including the Civil War.

**GENERAL MUSIC 7 – COURSE #727**

General Music 7 is a study of basic music and music appreciation. The students will learn the history of the Star-Spangled Banner, music of the Armed Forces, Carbondale Area's Alma Mater, copyright, music theory and composition, musical careers, and music in the

cinema. Units and course work are focused on music in everyday life. Challenging course work will include writing a song parody, writing an original composition, and a research project on musical careers and dramatic work of cinematic music.

**BEGINNING BAND – COURSE #731**

Beginning band is designed to provide students with an introductory experience on band instruments. Students will begin their study of instrumental music and standard performance practices on woodwind, brass, and percussion instruments. Instruction areas include ensemble rehearsal and performance techniques, musicianship, tone production, festival performance, self-critique techniques and music literacy. Beginning Band is open to all 7th and 9th grade students who are required to take a music class whether band, chorus or general music. Student lessons will be available during the day and will be graded on attendance. Students are expected and encouraged to practice their instrument at home and must be available for evening concerts and performances, as it is part of the student's grade. Dress rehearsals will be held before each concert, which are also part of the student's grade. Pre-requisite: Prior instrumental music experience is not required.

**JUNIOR HIGH CHORUS – COURSE #722**

Chorus provides an opportunity for participating students to become acquainted with two, three, and four-part harmony, solo performance, group participation, community involvement, organizational skills, public performance and self-esteem. Students will also become familiar with conventional musical selections, world songs, foreign pieces and more unconventional texts and pieces (including holiday, classical, show tunes, standards, etc.). Students will also learn to work as a "team" and to work with each other's talents and excitement for the art of singing.

**ART 7 – COURSE #717**

Art 7, is a discipline-based art curriculum with its balance of content from four foundational art disciplines, art production, art history, art criticism, and aesthetics. It is a four-quarter course, which meets, three times in a six-day cycle. This course is designed to build upon and increase the student's knowledge of the elements and principles of design through work with a variety of media and techniques. Art 7 allows students to develop their abilities, to make critical judgments about art and to understand and appreciate the influences of art from other times and cultures.

**PHYSICAL EDUCATION – COURSE #978**

The Physical Education Program is designed to provide students with the knowledge and ability needed to maintain an active, healthy lifestyle. Participation in the physical activities offered in this course will be geared to meet the following goals: 1.) to help all students develop into physically educated individuals, 2.) to improve physical fitness levels, sports knowledge, and sports skills, and 3.) to help develop good sportsmanship, a sense of fair play, self-control, and cooperation. Successful completion of Physical Education in each grade level is required for graduation.

**LIBRARY SCIENCE I – COURSE #507**

This course provides seventh grade students with a thorough introduction to the school library and a full understanding as to utilizing this or other library facilities to their greatest potential. The foundation of library skills is provided through topics such as the general arrangement of the

library, types of library resources, and knowledge of OPAC searches. To encourage students' independent navigation of library resources, they learn to distinguish shelf arrangement of fiction and nonfiction books by related call numbers and Dewey Decimal Classifications; likewise, to encourage the responsible use of information, students learn about plagiarism and standard MLA documentation to credit the sources available for their research. This course further provides students with basic information skills that help them to evaluate and select appropriate print and electronic resources to complete content area assignments and to utilize text features to locate and understand information most effectively.

# 8TH GRADE – CURRICULUM GUIDE

1. English Language Arts – every day
2. Math – every day
3. American Cultures II – every day
4. General Science 8 – every day
5. Phys. Ed. – 3 days per cycle
6. Health – 3 days per cycle
7. Introduction to STEM – 3 days per cycle
8. Applied Computer Science – 3 days per cycle
9. Study Skills – 3 days per cycle

**ENGLISH LANGUAGE ARTS 8 (ELA 8) – COURSE #180**

This course is a continuation of the literary foundation provided in previous English-Language Arts classes, and in alignment with the Pennsylvania Core Standards, it prepares students for the requirements of high school English courses. The course enables students to strengthen their independent reading and comprehension skills through a wide range of increasingly complex informational and literary texts, including content-area readings. Students will work both independently and in small group settings to improve reading comprehension and critical analysis by engaging in close reading and other active reading strategies, examining literary elements and their modern connections, refining discussion skills, and formulating evidence-based responses orally and in writing. Students are provided with opportunities to engage in the writing process, whereby they build upon prior knowledge of mode-specific writing skills, as well as examine and practice grammatical concepts in the context of their own written compositions.

**ENGLISH LANGUAGE ARTS 8A (ELA 8A) – COURSE #181**

This course is a continuation of the literary foundation provided in previous English-Language Arts classes, and in alignment with the Pennsylvania Core Standards, it prepares students for the requirements of high school English courses. The course enables students to strengthen their independent reading and comprehension skills through a wide range of increasingly complex informational and literary texts, including content-area readings. Students will work both independently and in small group settings to improve reading comprehension and critical analysis by engaging in close reading and other active reading strategies, examining literary elements and their modern connections, refining discussion skills, and formulating evidence-

based responses orally and in writing. Students are provided with opportunities to engage in the writing process, whereby they build upon prior knowledge of mode-specific writing skills, as well as examine and practice grammatical concepts in the context of their own written compositions. Remediation for the general level is addressed in daily lessons as needed.

**HONORS ALGEBRA I – COURSE #480**

This course includes further study of solving linear equations, including those with extraneous solutions, properties of real numbers, proportional relationships, probability, inequalities, estimation, greatest common factor, and least common multiple. The course extends the study of volume to include cones, cylinders, and spheres. The course introduces students to systems of linear equations and inequalities in two variables, in addition to exponent equations. Students will learn how to simplify exponent expressions, find equations and identify properties of functions, and perform operations in and apply scientific notation. Students will learn how to use the Pythagorean Theorem and about the properties of the Objects of Transformation. Students will learn how to construct and interpret scatter plots and two-way tables when given a set of data. The students will learn how to interpret data using measures of central tendency. Students will learn how to simplify expressions involving roots, absolute value symbols, and exponents. Students will be introduced to polynomial operations and factoring. Emphasis will be placed on real world application problems and higher level thinking word problems. Calculators are incorporated per the PA Common Core Standards. The course curriculum, instruction, and assessment are aligned with the Pennsylvania Common Core Standards for Mathematics. The course's objectives, content, and activities prepare students to meet both the 8th Grade and Algebra I Common Core Standards.

**PRE-ALGEBRA – COURSE #481**

This course includes further study of solving linear equations, including those with extraneous solutions, properties of real numbers, and proportional relationships. The course extends the study of volume to include cones, cylinders, and spheres. The course introduces students to systems of linear equations in two variables, in addition to exponent equations. Students will learn how to simplify exponent expressions, find equations and identify properties of functions, and perform operations in and apply scientific notation. Students will learn how to use the Pythagorean Theorem and about the properties of the Objects of Transformation. Students will learn how to construct and interpret scatter plots and two-way tables when given a set of data. The students will learn how to interpret data using measures of central tendency. Emphasis will be placed on real world application problems and higher level thinking word problems. Calculators are incorporated per the PA Common Core Standards. The course curriculum, instruction, and assessment are aligned with the Pennsylvania Common Core Standards for Mathematics. The course's objectives, content, and activities prepare students to meet the 8th Grade Common Core Standards.

**MATH 8 – COURSE #482**

This course is very similar to the Pre-Algebra course; however, it allows for further review of basic math concepts in addition to the introduction of new concepts. Math 8 includes further study of solving linear equations, including those with extraneous solutions, properties of real numbers, and proportional relationships. The course extends the study of volume to include cones, cylinders, and spheres. The course introduces students to systems of linear equations in

two variables, in addition to exponent equations. Students will learn how to simplify exponent expressions, find equations and identify properties of functions, and perform operations in and apply scientific notation. Students will learn how to use the Pythagorean Theorem and about the properties of the Objects of Transformation. Students will learn how to construct and interpret scatter plots and two-way tables when given a set of data. The students will learn how to interpret data using measures of central tendency. Although real world application problems and higher level thinking word problems are covered, oftentimes the breadth and depth of those questions are on a lower level than in Pre-Algebra. Calculators are incorporated per the PA Common Core Standards. The course curriculum, instruction, and assessment are aligned with the Pennsylvania Common Core Standards for Mathematics. The course's objectives, content, and activities prepare students to meet the 8th Grade Common Core Standards.

**AMERICAN CULTURES II – COURSE #282**

American Cultures II surveys of the social, political, economic, cultural, and intellectual history of the United States from the Reconstruction era to the present. American Cultures II examines industrialization, immigration, world wars, the Great Depression, the Vietnam conflict, the Cold War and post-Cold War eras. Themes that are covered in American Cultures II include: American culture, civil and human rights, technological change, economic change, immigration and migration, urbanization and suburbanization, the expansion of the federal government, and the study of U.S. foreign policy throughout the years of 1865 - present.

**GENERAL SCIENCE 8 – COURSE #380**

General Science 8 is a comprehensive course that focuses on exploring the individual science disciplines of Chemistry, Physics, and Earth Science. Students review the principles of the Scientific Method as well as Chemistry content, such as Matter and its Properties, heat transfer. Students learn a combination of Chemistry and Physics topics including the Periodic Table, Chemical Reactions/Bonds, Acids and Bases, and Newton's Laws of Motion. Students also focus on both Physics and Earth Science including topics of Pressure, Energy, Simple Machines, Electricity, Weathering, and Erosion. Earth Science topics will include Soil Formation, the Fossil Record, the Rock Cycle, Plate Tectonics, and Volcanism. Throughout the school year students also spend time exploring the links between each of these types of science and real world applications.

**PHYSICAL EDUCATION – COURSE #978**

The Physical Education Program is designed to provide students with the knowledge and ability needed to maintain an active, healthy lifestyle. Participation in the physical activities offered in this course will be geared to meet the following goals: 1.) to help all students develop into physically educated individuals, 2.) to improve physical fitness levels, sports knowledge, and sports skills, and 3.) to help develop good sportsmanship, a sense of fair play, self-control, and cooperation. Successful completion of Physical Education in each grade level is required for graduation.

**HEALTH 8 – COURSE #983**

The 8th grade Health Education program provides students with the information to take a positive action regarding their health. The students learn that good health habits can improve the way they look, the way they perform in school and sports, the way they interact with others, and the way they feel about themselves. Topics covered include Self-Image, Attitudes and Values,

Decision Making, Conflict Resolution, Stress Management, Communication Skills, Alcohol, Tobacco and Other Drugs, Eating Disorders, Nutrition and Fitness, Sexually Transmitted Diseases and HIV/AIDS Prevention. A Life Skills Training program is incorporated, focusing on teaching the life skills necessary for succeeding in a complex and challenging world and providing the opportunity to use these skills to better prepare the student for the challenges of life.

**APPLIED COMPUTER SCIENCE – COURSE #403**

This course is designed for students to build on their current computer-literacy levels, learning basic computer operations, computer use in common software programs, hardware basics, internet, and social media safety. Microsoft application skills developed include word processing, PowerPoint presentation software, Excel spreadsheets as well as internet applications. Students will combine text and graphics in a variety of formats to create publications. They will use critical thinking skills to plan projects, solve problems, and make informed decisions using appropriate tools and resources.

**INTRODUCTION TO STEM – COURSE #308**

Introduction to STEM Lab introduces the engineering design process. Students begin the year by learning to think like an engineer. Students are posed with several problems and then must work through all steps of the process to come to a solution. Students' main goal in Intro to STEM Lab is the designing and building of a model tiny house. Students will learn about alternative energy sources and determine which sources best fit their needs. Students will collaborate to go through several iterations of blueprints, from basic bubble blueprints to hand drawn, scaled, and computer-generated designs. Students will incorporate mathematics as they use scale and proportion to determine the size their models will be. Once plans are finalized, students will use equipment in the Maker Space to build scaled models of their homes. The course concludes with students creating marketing plans for their homes which are evaluated by local real estate professionals.

This project-based course requires students to think abstractly and collaborate in order to accomplish a task. Students are introduced to several state-of-the-art design websites and become proficient in CAD software throughout the course.

**STUDY SKILLS – COURSE #5088**

Using SOAR Learning and Soft Skills, students will learn to become more independent, learn the value of developing a strategy for learning, and learn "career-ready skills." The course objective is for students to learn new skills and information, to comprehend information, to write clearly, communicate effectively, manage time, and meet deadlines. Through the use of these skills, students should expect to earn better grades, build confidence, and learn simple skills to use in school and in the workplace.

# 9TH GRADE – CURRICULUM GUIDE

1. English Language Arts – every day
2. Math – every day
3. Civics – every day
4. General Science 9 – every day
5. **One Elective Choice – every day**
6. Phys. Ed. – 3 days per cycle
7. Personal Finance – 3 days per cycle
8. Music Elective – 3 days per cycle; or every day for Advanced Band or Advanced Chorus.

## ENGLISH LANGUAGE ARTS 9 (ELA 9) – COURSE #191

This course is an introduction to World Literature and is arranged instructionally through reading and studying various genres, which include fiction, nonfiction, short stories, mythology, the epic, poetry, drama, and the memoir. Each genre is presented in a comparative structure to previously read texts to distinguish between several types of writings and the characteristics of each. In addition, each new text selection is introduced with the historical context to discover the influence of the time period and its reflection within the writing. All texts are read and examined closely to further discover timeless themes and their relevance to the present. Students are provided opportunities to improve and expand their skills in the overall process of writing to strengthen their organizational and analytical skills, as well as encourage proper grammar, vocabulary, and composition. Writing assignments are aligned in accordance with the Pennsylvania Core Standards as seen in the various modes, including narrative writing, persuasive writing, informative writing, and a research paper.

## ENGLISH LANGUAGE ARTS 9A (ELA 9A) – COURSE #192

This course is an introduction to World Literature and is arranged instructionally through reading and studying various genres, which include fiction, nonfiction, short stories, mythology, the epic, poetry, drama, and the memoir. Each genre is presented in a comparative structure to previously read texts to distinguish between several types of writings and the characteristics of each. In addition, each new text selection is introduced with the historical context to discover the influence of the time period and its reflection within the writing. All texts are read and examined closely to further discover timeless themes and their relevance to the present. Students are provided opportunities to improve and expand their skills in the overall process of writing to strengthen their organizational and analytical skills, as well as encourage proper grammar, vocabulary, and composition. Writing assignments are aligned in accordance with the Pennsylvania Core Standards as seen in the various modes, including narrative writing, persuasive writing, informative writing, and a research paper. Remediation for the general level is addressed in daily lessons and assignments as needed.

## HONORS GEOMETRY – COURSE #490

The course involves: the concepts of point, line and plane; angles and triangles; postulates and theorems; parallel lines and planes; quadrilaterals; logical statements; congruence and similarity; Pythagorean Theorem; right triangles and trigonometric ratios; angles and lines related to circles; perimeters, areas and volumes including similar figures; and circumferences, arc lengths and area of sectors. The traditional theorem/proof approach to geometry is enhanced using numerical and

algebraic applications. Lessons, activities and assignments are structured to challenge above average ability students. Scientific calculators are incorporated using Pennsylvania Geometry standards. Above average ability in mathematics as determined by recommendation of the Honors Algebra I mathematics teacher and guidance data required for admission. The course curriculum, instruction and assessment are aligned with the Pennsylvania Academic Standards for Mathematics as mandated by PA Education Code 22, Chapter 4 Regulations. Prerequisites: Students must complete Honors Algebra I and Honors Algebra II.

**ALGEBRA I – COURSE #491**

The course involves: the study of variables; expressions and formulas; signed numbers; rational and irrational numbers; polynomials and operations; first degree equations; word problem applications; factoring; monomial and polynomial operations; solution of quadratic equations; algebraic fractions; linear equations in two variables; the Cartesian Coordinate System; linear equations and systems; powers, roots and radicals; and inequalities. Lessons, activities and assignments in Academic Algebra I are structured toward average ability students. Scientific calculators and computer aides are incorporated using Pennsylvania Keystone Algebra I standards. The course curriculum, instruction and assessment are aligned with the Pennsylvania Academic Standards for Mathematics as mandated by PA Education Code 22, Chapter 4 Regulations.

**CONCEPTS OF ALGEBRA 1A – COURSE #452**

The course contains the following mathematical topics: connections to algebra - variables, expressions and formulas; real 44 numbers - signed numbers, rational and irrational numbers; solving and graphing linear equations, inequalities and functions; writing linear equations; solving systems of linear equations, and inequalities; polynomial operations and factoring; rational expressions and equations; radicals; exponents and exponentials; quadratic equations; and word problem applications. Lessons, activities and assignments are structured toward basic ability students and aimed at success in algebra. Scientific calculators and computer aides are incorporated using Pennsylvania Keystone Algebra I standards. The course curriculum, instruction and assessment are aligned with the Pennsylvania Academic Standards for Mathematics as mandated by PA Education Code 22, Chapter 4 Regulations. The course's objectives, content, and activities prepare students to meet the PA Academic Standards for Mathematics.

**GENERAL SCIENCE 9 – COURSE #390**

In this course, students investigate the core of Earth and explore far away planets in a real world comprehensive format. Coursework includes the exploration of the four key content areas that focus on the study of Earth and its place in the universe. The four content areas include geology which is the study of solid Earth including the origin, structure, and processes shaping Earth. The second content area is oceanography which is the study of the Earth's oceans. The third content area is meteorology which is the study of Earth's atmosphere and the fourth content area is astronomy which is the study of the universe beyond Earth. During the year, students learn how this content relates to their lives and real world applications.

**HONORS CIVICS – COURSE #2921**

Placement in this course is based upon student request, course and cumulative averages, as well as Teacher Recommendation.

This class is designed to acquaint students with the origins, concepts, organizations, and policies of the United States government and political system. This course is an introduction to the basic concepts of American government, the American political process and the rights and responsibilities associated with United States citizenship. Students explore and examine the following: Founding Documents and the Origins of Unites States Government; Political Parties, Elections, and Voting; The Legislative and Executive Branches of Government; State and Local Government; and the American Legal System.

**CIVICS – COURSE #292**

This class is designed to acquaint students with the origins, concepts, organizations, and policies of the United States government and political system. This course is an introduction to the basic concepts of American government, the American political process and the rights and responsibilities associated with United States citizenship. Students explore and examine the following: Founding Documents and the Origins of Unites States Government; Political Parties, Elections, and Voting; The Legislative and Executive Branches of Government; State and Local Government; and the American Legal System.

**PERSONAL FINANCE – COURSE #652**

This course is designed to introduce students to various personal finance and practical life skills. Through numerous practical applications students gain knowledge of financial fundamentals; long and short term funding sources; banking institutions; school loans; credit and financial charges; real estate mortgages; car loans; taxes and insurance; health insurance; understanding stocks and the stock market; and saving for the future.

**PHYSICAL EDUCATION – COURSE# 9110**

The Physical Education Program is designed to provide students with the knowledge and ability needed to maintain an active, healthy lifestyle. Participation in the physical activities offered in this course will be geared to meet the following goals: 1.) to help all students develop into physically educated individuals, 2.) to improve physical fitness levels, sports knowledge, and sports skills, and 3.) to help develop good sportsmanship, a sense of fair play, self-control, and cooperation. Successful completion of Physical Education in each grade level is required for graduation.

**GENERAL MUSIC 9 – COURSE #729**

General Music 9 is a study of the art of music and music appreciation. Along with historical and theoretical studies, there will also be a focus on music technology. This focus includes computer music labs and a variety of challenging work that will integrate the music art form with 21st century learning.

**SENIOR HIGH CHORUS – COURSE #723**

Chorus provides an opportunity for participating students to become acquainted with two, three, and four-part harmony, solo performance, group participation, community involvement, organizational skill, public performance and self-esteem. Students will also become familiar with conventional musical selections, familiar with world songs, foreign pieces and more unconventional texts and pieces (including holiday, classical, show tunes, standards, etc.). Students will also learn to work as a "team" and to work with each other's talents and excitement

for the art of singing.

**BEGINNING BAND - COURSE #731**

Beginning Band is designed to provide students with an introductory experience on band instruments. Students will begin their study of instrumental music and standard performance practices on woodwind, brass, and percussion instruments. Instruction areas include ensemble rehearsal and performance techniques, musicianship, tone production, festival performance, self-critique techniques and music literacy. Beginning Band is open to all 7th and 9th grade students who are required to take a music class whether band, chorus, or general music. Student lessons will be available during the day and will be graded on attendance. Students are expected and encouraged to practice their instrument at home and must be available for evening concerts and performances, as it is part of the student's grade. Dress rehearsals will be held before each concert, which are also part of the student's grade. Pre-requisite: Prior instrumental music experience is not required.

# 10TH GRADE – CURRICULUM GUIDE

1. English Language Arts – every day
2. Math – every day
3. World Cultures I – every day
4. Biology – every day
5. **TWO Elective Choices – every day**
6. Phys. Ed. – 3 days per cycle
7. Library Science – 1 day per cycle

**ENGLISH LANGUAGE ARTS 10 (ELA 10) – COURSE #122**

This course is a study of World Literature as well as composition. A survey of significant global authors and genres are presented within a framework of ancient literature through 20th Century works. Students analyze literary selections within their historical and social contexts, evaluate the influences each has on the writing of its time, and examine various literary concepts demonstrated through these selections. The course also provides opportunities for students to enhance reading comprehension and analysis of nonfiction texts. In addition, the integration of composition emphasizes the writing process with a focus on students recognizing and revising grammar, usage, agreement, and sentence structure within their own writing. In accordance with the Pennsylvania Core Standards, writing assignments provide practice of informative and argumentative modes, as well as analysis of class readings and literary concepts demonstrated in those works.

**ENGLISH LANGUAGE ARTS 10A (ELA 10A) – COURSE #121**

This course is a study of World Literature as well as composition. A survey of significant global authors and genres are presented within a framework of ancient literature through 20th Century works. Students analyze literary selections within their historical and social contexts, evaluate the influences each has on the writing of its time, and examine various literary concepts demonstrated through these selections. The course also provides opportunities for students to enhance reading comprehension and analysis of nonfiction texts. In addition, the integration of

composition emphasizes the writing process with a focus on students recognizing and revising grammar, usage, agreement, and sentence structure within their own writing. In accordance with the Pennsylvania Core Standards, writing assignments provide practice of informative and argumentative modes, as well as analysis of class readings and literary concepts demonstrated in those works. Remediation for the general level is addressed in daily lessons as needed.

**HONORS ALGEBRA II – COURSE #420**

The course content, objectives, and activities prepare students to meet standards of the Algebra I and Algebra II curriculum outlined in the PA Academic Standards for Mathematics. This course will also give students background knowledge for SATs and college entrance exams in mathematics. The topics covered include the following: Properties of Real Numbers, Evaluating Algebraic Expressions, Solving Linear Equations, Using Problem Solving Strategies and Verbal Models, Solving Linear Inequalities (including Compound Inequalities), Solving Absolute Value Equations and Inequalities, Relations and Functions, Finding Slope and Rate of Change, Graphing Equations of Lines, Writing Equations of Lines, Modeling Direct Variation, Drawing Scatter Plots and Determining Lines of Best Fit, Graphing Linear Inequalities in 2 Variables, Solving Linear Systems by Graphing, Solving Linear Systems using Substitution, Solving Linear Systems using Elimination (Linear Combination), Use the Exponent Properties (Rules), Add, Subtract, and Multiply Polynomials, Factoring (6 Patterns), Using Factoring to Solve Equations, Graphing Quadratic Equations using 3 Forms (Standard, Vertex, and Intercept), Solving Quadratic Equations using Square Roots, Evaluating $n^{th}$ roots using Rational Exponents, Applying Properties of Rational Exponents, Perform Basic Operations on Functions (Add, Subtract, Multiply, and Divide), Perform Composition of Functions, Model Direct, Inverse, and Joint Variation, Multiply and Divide Rational Expressions, Add and Subtract Rational Expressions, Solve Rational Equations, Apply the Distance and Midpoint Formulas, Apply the Counting Principles, Perform Permutations and Combinations, Define and Use Probability, Find Probabilities of Disjoint and Overlapping Events, Find Probabilities of Independent and Dependent Events, Find Measures of Central Tendency (Mean, Median, Mode, Range, Quartiles, Inter-Quartile Range, Box and Whisker Plots, and Stem and Leaf Plots), Define and Use Sequences, Analyze Arithmetic Sequences, Analyze Geometric Sequences, Perform Operations with Complex Numbers, Use Completing the Square to Solve Quadratic Equations, Use the Quadratic Formula to Solve Quadratic Equations, Find the Discriminant of a Quadratic Equation, Graph and Solve Quadratic Inequalities, and Write Quadratic Functions and Models. The main difference between Algebra II and Honors Algebra II is more in depth problems with the Honors Algebra II.

**GEOMETRY – COURSE #422**

The course involves: the concepts of point, line and plane; angles and triangles; postulates and theorems; parallel lines and planes; quadrilaterals; logical statements; congruence and similarity; Pythagorean Theorem; right triangles and trigonometric ratios; angles and lines related to circles; perimeters, areas and volumes including similar figures; and circumferences, arc lengths and area of sectors. The traditional theorem/proof approach to geometry is enhanced using numerical and algebraic applications. Lessons, activities and assignments are structured toward average ability students. Scientific calculators are incorporated using Pennsylvania Geometry standards. The course curriculum, instruction and assessment are aligned with the Pennsylvania Academic Standards for Mathematics as mandated by PA Education Code 22, Chapter 4 Regulations.

Prerequisites: Students must complete Algebra I and Algebra II or have a teacher recommendation after Algebra I.

## CONCEPTS OF ALGEBRA 1B – COURSE #453

It is expected that a student previously has passed Concepts of Algebra 1A. Concepts of Algebra 1B is an extension of the Concepts of Algebra 1A curriculum. Topics that were first introduced in Concepts of Algebra 1A will be built upon and applied to problems that require higher order thinking skills. Additional topics will also be introduced in a variety of methods, including self-discovery activities, group project and presentations, and teacher led class discussions. Fundamental skills of mathematics will be applied to such topics as functions, equations and inequalities, probability and statistics, logarithmic and exponential relationships, quadratic and polynomial equations, and matrices. Technology will be used to introduce and expand upon the areas of study listed above. Use of computers and calculators will be incorporated into each unit. The course curriculum, instruction and assessment are aligned with the Pennsylvania Academic Standards for Mathematics as mandated by the Pennsylvania Education Code 22, Chapter 4 regulations. The course's objectives, content, and activities prepare students to meet the PA Academic Standards for Mathematics.

## HONORS WORLD CULTURES I – COURSE #221

Placement in this course is based upon student request, course and cumulative averages, as well as Teacher Recommendation.

World Cultures I course covers history from pre-history to 1500 A.D. and is designed to introduce the student to the concepts of culture in human experience and the concepts of geography. What culture is, how it develops, how it changes, and how it is transferred in time and space, its power to influence our lives and events, are some of the main topics examined. Because of the substantial influence of religion on human cultures and history, understanding major world religions will also be a focus of the course. Also, such topics as the role of family, language, art, political ideologies, government types, gender roles, work, status and war, are also examined.

## WORLD CULTURES I – COURSE #220

World Cultures I course covers history from pre-history to 1500 A.D. and is designed to introduce the student to the concepts of culture in human experience and the concepts of geography. What culture is, how it develops, how it changes, and how it is transferred in time and space, its power to influence our lives and events, are some of the main topics examined. Because of the substantial influence of religion on human cultures and history, understanding major world religions will also be a focus of the course. Also, such topics as the role of family, language, art, political ideologies, government types, gender roles, work, status and war, are also examined.

## BIOLOGY – COURSE #320

Biology is a comprehensive course that focuses on the study of life by examining the fundamentals and concepts of Basic Biological Principles, Chemistry of Life, Homeostasis and Transport, Bioenergetics, Cell Growth and Reproduction, Genetics, Ecology, and Evolution.

The scientific process and laboratory skills are emphasized along with Biology's connection to other scientific disciplines.

**PHYSICAL EDUCATION – COURSE #9910**

The Physical Education Program is designed to provide students with the knowledge and ability needed to maintain an active, healthy lifestyle. Participation in the physical activities offered in this course will be geared to meet the following goals: 1.) to help all students develop into physically educated individuals, 2.) to improve physical fitness levels, sports knowledge, and sports skills, and 3.) to help develop good sportsmanship, a sense of fair play, self-control, and cooperation. Successful completion of Physical Education in each grade level is required for graduation.

**LIBRARY SCIENCE II – COURSE #508**

This course offers tenth grade students the opportunity to learn in detail the necessary steps involved in writing a coherent, well-planned research paper. Students initially review the primary print and electronic resources available for library research and build a foundation of skills in appropriate source selection, website evaluation, and the prevention of plagiarism through note-taking strategies and the most current MLA documentation style. Following the Big6 Skills for Information Problem Solving, students are then guided through the stages of the research process to compile an independently written research report.

# 11TH GRADE – CURRICULUM GUIDE

1. English Language Arts – every day
2. Math – every day
3. World Cultures II – every day
4. Chemistry or Science elective – every day
5. **TWO Elective Choices – every day**
6. Phys. Ed. – 3 days per cycle

**ENGLISH LANGUAGE ARTS 11 (ELA 11) – COURSE # 132**

This course is a study of American Literature as well as composition. A survey of significant American authors and their works are presented chronologically from the Age of Exploration to the present time. Students examine major literary movements and analyze selections within those historical contexts to understand how American Literature has evolved. Various literary concepts and key vocabulary will also be demonstrated through these representative readings of non-fiction, short story, poem and drama. In addition, the composition component of this course emphasizes writing as a process with a grammar focus on usage, agreement, sentence structure, and punctuation in the context of the student's writings. In accordance with the Pennsylvania Core Standards, writing assignments provide practice of informative and argumentative modes, as well as analysis of class readings and literary concepts demonstrated by those works. Students will also create a résumé and complete their Senior Project Research Reports toward fulfillment of their graduation requirement.

## ENGLISH LANGUAGE ARTS 11 (ELA 11A) – COURSE #131

This course is a study of American Literature as well as composition. A survey of significant American authors and their works are presented chronologically from the Age of Exploration to the present time. Students examine major literary movements and analyze selections within those historical contexts to understand how American Literature has evolved. Various literary concepts and key vocabulary will also be demonstrated through these representative readings of non-fiction, short story, poem and drama. In addition, the composition component of this course emphasizes writing as a process with a grammar focus on usage, agreement, sentence structure, and punctuation in the context of the student's writings. In accordance with the Pennsylvania Core Standards, writing assignments provide practice of informative and argumentative modes, as well as analysis of class readings and literary concepts demonstrated by those works. Students will also create a résumé and complete their Senior Project Research Reports toward fulfillment of their graduation requirement. Remediation for the general level is addressed in daily lessons as needed.

## HONORS PRE-CALCULUS/TRIGONOMETRY – COURSE #429

This course is for the student who has completed Honors Algebra 1, Honors Algebra 2, and Honors Geometry. This course is broken into two parts: Pre-Calculus and Trigonometry. The first part of the course, Pre-Calculus, is designed to prepare students for topics covered in a Calculus course. It begins with a comprehensive study of functions and moves into an analysis of rudimentary calculus concepts such as the difference quotient and the notion of "taking a limit." In addition to introducing students to terminology and concepts essential to the study of Calculus, this course should also help students develop reasoning and analytical skills which may be applied to problems outside the typical realm of mathematics. The second part of the course, Trigonometry, focuses on trigonometric principles as an extension of algebraic and geometrical concepts. Students will study angles, arcs, the unit circle, right triangle trigonometry, the six trigonometric functions, inverse functions, fundamental trigonometric identities, verifying trigonometric identities, solving trigonometric equations, the law of sines, the law of cosines, vectors, and polar coordinates. Graphing calculators, scientific calculators and computer aides will be incorporated using the Pennsylvania and National Standards. The course curriculum, instruction and assessment are aligned with the Pennsylvania Academic Standards for Mathematics as mandated by the Pennsylvania Education Code 22, Chapter 4 regulations. The course's objectives, content and activities prepare students to meet the Pre-Calculus and Trigonometry benchmarks as outlined in the Pennsylvania Academic Standards for Mathematics. Students who take the honors version of this course will learn a broader, more contextualized, more richly detailed version of the topics listed. The course will be fast-paced and the students will receive more academically challenging assignments as compared to the academic course.

## ALGEBRA II – COURSE #421

The course content, objectives, and activities prepare students to meet standards of the Algebra I and Algebra II curriculum outlined in the PA Academic Standards for Mathematics. This course will also give students background knowledge for SATs and college entrance exams in mathematics. The topics covered include the following: Properties of Real Numbers, Evaluating Algebraic Expressions, Solving Linear Equations, Using Problem Solving Strategies and Verbal Models, Solving Linear Inequalities (including Compound Inequalities), Solving Absolute Value

Equations and Inequalities, Relations and Functions, Finding Slope and Rate of Change, Graphing Equations of Lines, Writing Equations of Lines, Modeling Direct Variation, Drawing Scatter Plots and Determining Lines of Best Fit, Graphing Linear Inequalities in 2 Variables, Solving Linear Systems by Graphing, Solving Linear Systems using Substitution, Solving Linear Systems using Elimination (Linear Combination), Use the Exponent Properties (Rules), Add, Subtract, and Multiply Polynomials, Factoring (6 Patterns), Using Factoring to Solve Equations, Graphing Quadratic Equations using 3 Forms (Standard, Vertex, and Intercept), Solving Quadratic Equations using Square Roots, Evaluating $n^{th}$ roots using Rational Exponents, Applying Properties of Rational Exponents, Perform Basic Operations on Functions (Add, Subtract, Multiply, and Divide), Perform Composition of Functions, Model Direct, Inverse, and Joint Variation, Multiply and Divide Rational Expressions, Add and Subtract Rational Expressions, Solve Rational Equations, Apply the Distance and Midpoint Formulas, Apply the Counting Principles, Perform Permutations and Combinations, Define and Use Probability, Find Probabilities of Disjoint and Overlapping Events, Find Probabilities of Independent and Dependent Events, Find Measures of Central Tendency (Mean, Median, Mode, Range, Quartiles, Inter-Quartile Range, Box and Whisker Plots, and Stem and Leaf Plots), Define and Use Sequences, Analyze Arithmetic Sequences, Analyze Geometric Sequences, Perform Operations with Complex Numbers, Use Completing the Square to Solve Quadratic Equations, Use the Quadratic Formula to Solve Quadratic Equations, Find the Discriminant of a Quadratic Equation, Graph and Solve Quadratic Inequalities, and Write Quadratic Functions and Models.

**INFORMAL GEOMETRY – COURSE #424**

The course covers the basics of geometry by using arithmetic calculations and simple geometric formulas. Lessons, activities and assignments are designed for success in geometry. Course topics include: the concepts of point, line and plane; angles and triangles; postulates and theorems; parallel lines; quadrilaterals, parallelograms, and polygons; congruence and similarity; Pythagorean Theorem; circles and angles and lines; perimeters, areas and volumes including similar figures; circumferences, arc lengths and areas of sectors; right triangles; and coordinate geometry. Scientific 45 calculators are incorporated using Pennsylvania Geometry standards. The course curriculum, instruction and assessment are aligned with the Pennsylvania Academic Standards for Mathematics as mandated by PA Education Code 22, Chapter 4 Regulations.

**HONORS WORLD CULTURES II – COURSE #231**

Placement in this course is based upon student request, course and cumulative averages, as well as Teacher Recommendation.

World Cultures II is designed to give students a better understanding of world politics, wars, events, and rulers who sought to dominate the world. Students focus on how people in the past grappled with issues such as truth, justice, social and individual responsibilities. Students analyze the impact of geographical factors on the development of human and social systems, evaluate the influence of major religious and political belief systems, and analyze the major political, economic, and social developments that have shaped the history of our contemporary world. Topics include: The Age of Absolute Monarchs, The Enlightenment, The French Revolution, The Industrial Revolution, Revolutions of Latin America and Europe, Nationalism, Imperialism, World War I and its Aftermath, The Russian Revolution, The World between the Wars, World War II and its Aftermath, and the contemporary world since 1945.

**WORLD CULTURES II – COURSE #230**

World Cultures II is designed to give students a better understanding of world politics, wars, events, and rulers who sought to dominate the world. Students focus on how people in the past grappled with issues such as truth, justice, social and individual responsibilities. Students analyze the impact of geographical factors on the development of human and social systems, evaluate the influence of major religious and political belief systems, and analyze the major political, economic, and social developments that have shaped the history of our contemporary world. Topics include: The Age of Absolute Monarchs, The Enlightenment, The French Revolution, The Industrial Revolution, Revolutions of Latin America and Europe, Nationalism, Imperialism, World War I and its Aftermath, The Russian Revolution, The World between the Wars, World War II and its Aftermath, and the contemporary world since 1945.

**CHEMISTRY – COURSE #330**

Chemistry is an introductory course for students interested in further study of the sciences. Chemistry focuses on the study of basic principles and theories of chemistry including stoichiometry, atomic and molecular structures, the periodic law and its application, basic concepts of chemical bonding, solutions, types of chemical reactions, and gas laws.

**GENERAL SCIENCE 11 – COURSE #350**

General Science 11 is a comprehensive course that focuses on exploring the individual science disciplines of Biology, Chemistry, Physics, and Earth Science. Students learn about the influence of science and technology in our everyday lives, as well as review the Scientific Method and setting up scientific experiments. Physics topics include Newton's Laws of Motion, Momentum, Heat Transfer, and Electricity and Magnetism. Also included in the course are Biology and Chemistry topics such as Cells, Origin of Life, Atoms and Chemical Formulas. Earth Science topics also include Rocks and Minerals and Plate Tectonics. During the school year, students also explore the areas where each of the scientific disciplines overlap and correlate to their everyday life.

**PHYSICAL EDUCATION – COURSE #941**

The Physical Education Program is designed to provide students with the knowledge and ability needed to maintain an active, healthy lifestyle. Participation in the physical activities offered in this course will be geared to meet the following goals: 1.) to help all students develop into physically educated individuals, 2.) to improve physical fitness levels, sports knowledge, and sports skills, and 3.) to help develop good sportsmanship, a sense of fair play, self-control, and cooperation. Successful completion of Physical Education in each grade level is required for graduation.

# 12TH GRADE – CURRICULUM GUIDE

1. English Language Arts – every day
2. Social Studies – every day
3. Math elective – every day
4. Science elective – every day
5. **TWO Elective Choices – every day**

6. Physical Education – 3 days per cycle
7. Health – 3 days per cycle

**AP ENGLISH LITERATURE AND COMPOSITION – COURSE #141**

This course is designed to comply with curricular requirements described in the AP English Course Description and will prepare students for the AP exam in English Literature and Composition. This course is an intensive study of representative works of British Literature as well as composition. A survey of significant British authors and their works are presented chronologically from 449AD to the present. Students will be required to read independently, analyze and interpret material, and form impressions and emotional responses that lead to understanding and independent assessment of literary works. All literary selections will include intensive vocabulary development to assist in comprehending the complexity of each work. In addition, assigned compositions emphasize writing as a process with standard English usage, agreement, sentence structure, and punctuation assessed in the context of the student's writing. Writing assignments reflect accordance with the Pennsylvania Core Standards as seen in the informative and argumentative modes and class research component, as well as analysis of class readings and literary concepts demonstrated by those works.

**ENGLISH LANGUAGE ARTS 12 (ELA 12) – COURSE #140**

This course is a study of British Literature as well as composition. A survey of significant British authors and their works are presented chronologically from 449 AD to the present. Students analyze selections within their historical context and examine literary concepts as seen in each. In addition, assigned compositions emphasize writing as a process with standard English usage, agreement, sentence structure, and punctuation assessed in the context of the student's writing. Writing assignments reflect accordance with the Pennsylvania Core Standards as seen in the informative and argumentative modes, literary response, and class research component.

**ENGLISH LANGUAGE ARTS 12A (ELA 12A) – COURSE #142**

This course is a study of British Literature as well as composition. A survey of significant British authors and their works are presented chronologically from 449 AD to the present. Students analyze selections within their historical context and examine literary concepts as seen in each. Composition emphasizes writing as a process with a grammar focus on usage, agreement, sentence structure, and punctuation in the context of the student's writings. In addition, assigned compositions emphasize writing as a process with standard English usage, agreement, sentence structure, and punctuation assessed in the context of the student's writing. Writing assignments reflect accordance with the Pennsylvania Core Standards as seen in the informative and argumentative modes, literary response, and class research component. Remediation for the general level is addressed in daily lessons as needed.

**AP CALCULUS AB – COURSE #441**

AP Calculus is available to students who have completed Honors Pre-Calculus/Trigonometry. AP Calculus is an advanced placement elective course, which is equivalent to a full academic's year of work in Calculus and related topics, comparable to courses in colleges and universities. Students must have a thorough knowledge of college preparatory mathematics algebra, trigonometry, and geometry. Students will be encouraged to take the Advanced Placement Calculus examination offered by Educational Testing Service (ETS) of the College Board. The

course begins with a review of Pre-Calculus concepts essential to the study of Calculus. The concepts of limits and their properties are covered in detail. The two branches of Calculus, differentiation and integration, are covered extensively, along with chapters on the applications of both topics. The course concludes with more advanced integration techniques. Professional mathematics organizations have strongly endorsed the use of graphing calculators in mathematics instruction and consequently these calculators are also used throughout the course and are required for a portion of the AP exam AB. The course curriculum, instruction and assessment are aligned with the Pennsylvania Academic Standards for Mathematics as mandated by the Pennsylvania Education Code 22, Chapter 4 regulations. The course's objectives, content and activities prepare students for the AP Calculus AB exam.

**PRE-CALCULUS/TRIGONOMETRY – COURSE #430**

This course is for the student who has completed Algebra 1, Algebra 2, and Geometry. This course is broken into two parts: Pre-Calculus and Trigonometry. The first part of the course, Pre-Calculus, is designed to prepare students for topics covered in a Calculus course. It begins with a comprehensive study of functions and moves into an analysis of rudimentary calculus concepts such as the difference quotient and the notion of "taking a limit." In addition to introducing students to terminology and concepts essential to the study of Calculus, this course should also help students develop reasoning and analytical skills which may be applied to problems outside the typical realm of mathematics. The second part of the course, Trigonometry, focuses on trigonometric principles as an extension of algebraic and geometrical concepts. Students will study angles, arcs, the unit circle, right triangle trigonometry, the six trigonometric functions, inverse functions, fundamental trigonometric identities, verifying trigonometric identities, solving trigonometric equations, the law of sines, the law of cosines, vectors, and polar coordinates. Graphing calculators, scientific calculators and computer aides will be incorporated using the Pennsylvania and National Standards. The course curriculum, instruction and assessment are aligned with the Pennsylvania Academic Standards for Mathematics as mandated by the Pennsylvania Education Code 22, Chapter 4 regulations. The course's objectives, content and activities prepare students to meet the Pre-Calculus and Trigonometry benchmarks as outlined in the Pennsylvania Academic Standards for Mathematics.

**PROBABILITY AND STATISTICS – COURSE #425**

Students will learn about: the nature of probability and statistics; organizing data; averages and variations; correlation and regression; elementary probability; binomial distributions; normal curves and sampling distributions; estimation; hypothesis testing; differences of means and proportions; and chi-squares. Emphasis will be placed on real-world application problems and higher-level thinking word problems. Students may work both individually and collaboratively through solving problems, reading higher level texts, and completing projects to achieve mastery of content.

**FINANCIAL ALGEBRA – COURSE #440**

Financial Algebra is designed to develop a strong foundation in logical thinking and problem solving that will enable students to make informed decisions regarding matters of money and finance in their daily lives. This course furthers the development of functions, which include linear, piece-wise, quadratics, and step functions. Other topics studied include measures of center and spread, graphical representations of data, principles of finance economics,

employment, payroll, loans, compound interest and continuous interest, credit card debt, car ownership, and budgets. The last quarter the students proceed through the EverFi Financial Literacy program which is offered nationwide and includes the modules Savings, Banking, Credit Cards & Interest Rates, Credit Score, Financing Higher Education, Renting vs. Owning, Taxes & Insurance, Consumer Protection, and Investing.

**CONSUMER MATH – COURSE #454**

Consumer Math is designed to prepare students for life after graduation by giving them a basic understanding of the mathematics they will encounter on a daily basis. This course explores the topics of Employment Basics, Banking Services, Credit Cards, Taxes, Automobile Purchases, Renting/Owning a Home, Budgeting, Retirement, and the Stock Market .

**AP AMERICAN HISTORY – COURSE #242**

This Advanced Placement course is designed to study the history of the United States chronologically, with emphasis on interpretation and analysis of the material by contemporary and modern historians. Through the use of primary and secondary sources the student not only acquires a basic understanding of the factual material but develops the analytical and interpretive skills necessary to deal with the subject in greater depth. At the end of the course, students will be given the opportunity to take the Advanced Placement Examination in American History.

**STREET LAW/ECONOMICS – COURSE #243**

The ***Street Law*** portion of this course is an introduction to law and legal systems of the United States. The major focal points of this course include constitutional law, general legal principles, civil and criminal law, the courts, court procedures, and civil rights. Additional topics may include family law, housing law, and consumer law. Students engage in real-world experiences to deepen their personal understanding of government, individual rights, the legal system, and legal disputes. These learning experiences are characterized using case studies, mock trials, contemporary issues, current events, and legal research and applied to students' everyday lives. The ***Economics*** portion of the course will give the students a greater understanding of economics ranging from the viewpoint of the individual consumer or small business owner to the global economy. The course will study the law of supply and demand, forms of business, labor unions, government finances and influence on the economy, money and prices, inflation, and deflation cycles. The course relates history and politics to the study of economics.

**AP CHEMISTRY – COURSE #331**

Advanced Placement Chemistry is a course designed for those students who have already shown a mastery of basic chemical concepts and calculations from chemistry. It is intended for those who wish to major in a STEM field at the collegiate level. This course provides a more in-depth study of those topics covered in chemistry, such as reactions in aqueous solutions, along with new topics of thermochemistry, atomic and molecular structures, intermolecular forces, acid – base equilibria, chemical kinetics and also an introduction to organic chemistry.

**PHYSICS – COURSE #341**

This course is a science elective for seniors.
It entails the use of some basic trigonometry and extensive use of Algebra I and Real World Problems. Topics studied are: motion, time, position-time graphs, velocity, acceleration, free fall, force and motion, Newton's Laws, scalars, vectors, vectors in 1 dimension, vectors in 2

dimensions, friction, projectile motion, circular motion, relative velocity, planetary motion, gravitation, the law of universal gravitation, rotational motion, rotational dynamics, equilibrium, impulse, momentum, conservation of momentum, energy, work, simple machines, kinetic energy, potential energy, heat energy, temperature, thermodynamics, properties of fluids, periodic motion, and wave properties.

**HONORS ANATOMY & PHYSIOLOGY – COURSE #342 [11TH AND 12TH GRADES]**
The prerequisite for this course is a 90% average in Biology and teacher recommendation.

The course is a detailed look at the 11 different systems that make up the Human Body. Those systems include: Integumentary, Endocrine, Muscular, Skeletal, Cardiovascular, Nervous, Reproductive, Lymphatic, Urinary, Respiratory and Digestive. Furthermore, the course focuses on the naming of the organs in each system (Anatomy) and how each system functions in the body (Physiology).

**GENERAL SCIENCE 11 – COURSE #350**
General Science 11 is a comprehensive course that focuses on exploring the individual science disciplines of Biology, Chemistry, Physics, and Earth Science. Students learn about the influence of science and technology in our everyday lives, as well as review the Scientific Method and setting up scientific experiments. Physics topics include Newton's Laws of Motion, Momentum, Heat Transfer, and Electricity and Magnetism. Also included in the course are Biology and Chemistry topics such as Cells, Origin of Life, Atoms and Chemical Formulas. Earth Science topics also include Rocks and Minerals and Plate Tectonics. During the school year, students also explore the areas where each of the scientific disciplines overlap and correlate to their everyday life.

**PHYSICAL EDUCATION – COURSE #941**
The Physical Education Program is designed to provide students with the knowledge and ability needed to maintain an active, healthy lifestyle. Participation in the physical activities offered in this course will be geared to meet the following goals: 1.) to help all students develop into physically educated individuals, 2.) to improve physical fitness levels, sports knowledge, and sports skills, and 3.) to help develop good sportsmanship, a sense of fair play, self-control, and cooperation. Successful completion of Physical Education in each grade level is required for graduation.

**HEALTH 12 – COURSE #935**
Health 12 is designed to give students a basic knowledge and understanding of health, wellness, and the body. The course will cover a variety of different topics including Personal Health & Wellness, Food and Nutrition, Diets for individual Needs, Basic Anatomy, Injuries to Bones, Joints and Muscles, First Aid and CPR, HIV/AIDS, Reproduction and STD's. Successful completion of this course is required for graduation.

# ELECTIVE COURSE OFFERINGS

**ENGLISH LANGUAGE ARTS**
**141** AP English [12th grade only – Prerequisite: final grade of 93% or above in English 11]
**125** Advanced Composition [11th and 12th grades only]
**126** Yearbook [10th through 12th grades only]

**SOCIAL STUDIES**
**242** AP American History [12th grade only – Prerequisite: final grade of 90% or above in World Cultures II]
**243** Street Law/Economics [11th and 12th grades only]
**244** Psychology [11th and 12th grades only]
**245** Sociology [11th and 12th grades only]

**SCIENCE**
**330** Chemistry [11th and 12th grades only] * Required for Schroeder Scholarship
**331** AP Chemistry [12th grade only – Prerequisite: final grade of 90% or above in Chemistry]
**342** Honors Anatomy & Physiology [11th and 12th grades only – Prerequisite: final grade of 90% or above in Biology] * Required for Schroeder Scholarship
**341** Physics [12th grade only – Prerequisite: final grade of 90% or above in Algebra II] * Required for Schroeder Scholarship
**344** AP Biology [11th and 12th grades only]
**350** General Science 11 [11th and 12th grades only]
**354** Astronomy [10th through 12th grades only]
**352** Introduction to Hydroponics [10th through 12th grades only]
**359** Current Issues in Science [10th through 12th grades]
**348** Intro to Sports Medicine [10th through 12th grades]
**334** Virology [10th through 12th grades]
**358** Zoology [9th through 12th grades]
**357** Conservation Science [9th through 12th grades]

**MATH**
**441** AP Math [Prerequisites: Honors Pre-Calculus/Trigonometry]
**425** Probability & Statistics [11th and 12th grade only – Prerequisite: Algebra II]
**430** Pre-Calculus/Trigonometry [Prerequisites: Algebra I, Algebra II, and Geometry]
**440** Financial Algebra [12th grade only]
**454** Consumer Math [12th grade only]
**445** Economic Education / Financial Literacy [10th through 12th grades]

**COMPUTER SCIENCE**
**404** AP Computer Science Principles [11th and 12th Grade only]
**405** Introduction to Computer Science [10th through 12 Grade]

**FAMILY & CONSUMER SCIENCE**
**766** Nutrition, Wellness, & Independent Living [11th and 12th grades only]

**FOREIGN LANGUAGE**
**591** French I **522** French II **533** French III
**595** Spanish I **526** Spanish II **537** Spanish III **548** Spanish IV

**ART**
**701** – Advanced Art I
**702** – Advanced Art II
**703** – Advanced Art III
**736** – Intro to Theater Arts (9 to 12)

**BUSINESS**
**634** Accounting I [11th and 12th grade only – cannot be used to fulfill math graduation requirement]
**651** Introduction to Business/Entrepreneurship [11th and 12th grade only]

**MUSIC**
**729** General Music 9 [9th grade only]
**723** Chorus
**724** Advanced Chorus
**734** Band
**735** Advanced Band

# ENGLISH LANGUAGE ARTS ELECTIVES

**AP ENGLISH LITERATURE AND COMPOSITION – COURSE #141 [12TH GRADE]**

This course is designed to comply with curricular requirements described in the AP English Course Description, and will prepare students for the AP exam in English Literature and Composition. This course is an intensive study of representative works of British Literature as well as composition. A survey of significant British authors and their works are presented chronologically from 449AD to the present. Students will be required to read independently, analyze and interpret material, and form impressions and emotional responses that lead to understanding and independent assessment of literary works. All literary selections will include intensive vocabulary development to assist in comprehending the complexity of each work. In addition, assigned compositions emphasize writing as a process with standard English usage, agreement, sentence structure, and punctuation assessed in the context of the student's writing. Writing assignments reflect accordance with the Pennsylvania Core Standards as seen in the informative and argumentative modes and class research component, as well as analysis of class readings and literary concepts demonstrated by those works.

**ADVANCED COMPOSITION – COURSE #125 [11TH AND 12TH GRADES]**

Prerequisite: Students must have completed their previous year's English course with a minimum average of 85 and the recommendation of that English teacher.

Advanced Composition is an elective course that engages students in the writing process to proficiently develop original pieces of personal and expressive writing, observation and description, narrative and literary response, informative exposition, and analysis in accordance with Pennsylvania Core Standards. Students will be expected to write in various genres, including, but not restricted to, college application essays, memoirs, pictorial essays, song lyrics, eyewitness reports, as well as short story, dramatic scene, and research writing. Students will compose essays following standard MLA format. They will further apply independent editing and revision skills, as well as peer review of each assignment, to develop a wide-ranging vocabulary, a variety of sentence structures, and logical organizational skills. Discussed at length are shifting perspectives, language and craft, focus on the writer, and making story connections. Students will compile a working portfolio of their writing throughout the year, while selecting and revising one original piece per quarter to submit in a final portfolio at the end of the school year.

Since publishing written work is a component of the writing process, students will also be responsible for submitting one piece of writing per quarter to the on-line literary magazine *TeenInk.* Students may submit the work of their choosing, but they must present proof to the teacher by a specified due date that a piece of writing was submitted.

**YEARBOOK/NEWSPAPER – COURSE #126 [10TH through 12TH GRADES]**

Pre-requisite: Satisfactory Completion of English courses and Teacher Recommendation

The objective of this course is not only to create the school yearbook, but also to prepare students for a journalistic profession. The course involves direct experience with these journalistic skills:

organization, drawing and design, layout, financing, and production, as well as writing, editing, and proofreading. Students taking this course should plan to follow through the production cycle through the spring semester.

This course is designed to develop students' skills in writing articles, captions, headlines, photography, desktop publishing, and technology tools for media production. Throughout the course, students will take on the roles of writers, photographers, and editors. Students will also be required to attend events beyond the school day to acquire eyewitness accounts and in the moment photos of events. Students will also engage in conducting interviews. Editions of the newspaper will be published on the school's website quarterly, and the yearbook will be published by the end of the school year.

# SOCIAL STUDIES ELECTIVES

**AP AMERICAN HISTORY – COURSE #242 [12TH GRADE]**

This Advanced Placement course is designed to study the history of the United States chronologically, with emphasis on interpretation and analysis of the material by contemporary and modern historians. Through the use of primary and secondary sources the student not only acquires a basic understanding of the factual material but develops the analytical and interpretive skills necessary to deal with the subject in greater depth. At the end of the course, students will be given the opportunity to take the Advanced Placement Examination in American History.

**STREET LAW/ECONOMICS – COURSE #243 [11TH AND 12TH GRADES]**

The ***Street Law*** portion of this course is an introduction to law and legal systems of the United States. The major focal points of this course include constitutional law, general legal principles, civil and criminal law, the courts, court procedures, and civil rights. Additional topics may include family law, housing law, and consumer law. Students engage in real-world experiences to deepen their personal understanding of government, individual rights, the legal system, and legal disputes. These learning experiences are characterized using case studies, mock trials, contemporary issues, current events, and legal research and applied to students' everyday lives. The ***Economics*** portion of the course will give the students a greater understanding of economics ranging from the viewpoint of the individual consumer or small business owner to the global economy. The course will study the law of supply and demand, forms of business, labor unions, government finances and influence on the economy, money and prices, inflation, and deflation cycles. The course relates history and politics to the study of economics.

**PSYCHOLOGY – COURSE #244 [11TH AND 12TH GRADES]**

The psychology course is designed to give students an introduction to the field of psychology and the opportunity to learn more about themselves and others, human behaviors, and why people behave, think, and feel the way that they do. This is an interdisciplinary elective that will combine approaches from science, history, reading/writing, and social sciences.

This course will be broken up into several different modules. The main modules are:

- Scientific Inquiry, Biopsychology, Development and Learning, Sociocultural Psychology, Cognition, Individual Variations, and Applications of Psychological Science

**SOCIOLOGY – COURSE #245 [11TH AND 12TH GRADES]**

This course will focus on the examination of how people's beliefs, values, and behavior affect the people and world in which we live, especially as the world continues to become more complex. In their increasingly connected world, students will further examine problems in our society and learn how human relationships can influence the life of the student and those around them.

# SCIENCE ELECTIVES

**CHEMISTRY – COURSE #330 [11TH GRADE]**

Chemistry is an introductory course for students interested in further study of the sciences. Chemistry focuses on the study of basic principles and theories of chemistry including stoichiometry, atomic and molecular structures, the periodic law and its application, basic concepts of chemical bonding, solutions, types of chemical reactions, and gas laws.

**AP CHEMISTRY – COURSE #331 [12TH GRADE]**

Advanced Placement Chemistry is a course designed for those students who have already shown a mastery of basic chemical concepts and calculations from chemistry. It is intended for those who wish to major in a STEM field at the collegiate level. This course provides a more in-depth study of those topics covered in chemistry, such as reactions in aqueous solutions, along with new topics of thermochemistry, atomic and molecular structures, intermolecular forces, acid – base equilibria, chemical kinetics and also an introduction to organic chemistry.

**AP BIOLOGY – COURSE #344 [11th AND 12th GRADES]**

This course an elective biology course available for students in 11th and 12th grade. This course will connect AP-directed big ideas, such as Evolution, Energetics, Information Storage and Transmission, and Systems Interactions, with the eight testing topics of the chemistry of life, cell structure and function, cellular energetics, cell communications, the cell cycle, heredity, gene expression and regulation, natural selection, and ecology. Students will be provided with a deeper understanding of the objectives of biology in preparation for the AP exam. Students will have the option to take the AP Exam. Students who have not received a 90% or higher in Honors Biology or have teacher recommendation may not take this course.

**PHYSICS – COURSE #341 [12TH GRADE ONLY]**

This course entails the use of some basic trigonometry and extensive use of Algebra I and Real World Problems. Topics studied are: motion, time, position-time graphs, velocity, acceleration, free fall, force and motion, Newton's Laws, scalars, vectors, vectors in 1 dimension, vectors in 2 dimensions, friction, projectile motion, circular motion, relative velocity, planetary motion, gravitation, the law of universal gravitation, rotational motion, rotational dynamics, equilibrium, impulse, momentum, conservation of momentum, energy, work, simple machines, kinetic energy, potential energy, heat energy, temperature, thermodynamics, properties of fluids, periodic motion, and wave properties.

**HONORS ANATOMY & PHYSIOLOGY – COURSE #342 [11TH AND 12TH GRADES]**

The prerequisite for this course is a 90% average in Biology and teacher recommendation.

The course is a detailed look at the 11 different systems that make up the Human Body. Those systems include: Integumentary, Endocrine, Muscular, Skeletal, Cardiovascular, Nervous, Reproductive, Lymphatic, Urinary, Respiratory and Digestive. Furthermore, the course focuses on the naming of the organs in each system (Anatomy) and how each system functions in the body (Physiology).

**GENERAL SCIENCE 11 – COURSE #350 [11TH AND 12TH GRADES]**

General Science 11 is a comprehensive course that focuses on exploring the individual science disciplines of Biology, Chemistry, Physics, and Earth Science. Students learn about the influence of science and technology in our everyday lives, as well as review the Scientific Method and setting up scientific experiments. Physics topics include Newton's Laws of Motion, Momentum, Heat Transfer, and Electricity and Magnetism. Also included in the course are Biology and Chemistry topics such as Cells, Origin of Life, Atoms and Chemical Formulas. Earth Science topics also include Rocks and Minerals and Plate Tectonics. During the school year, students also explore the areas where each of the scientific disciplines overlap and correlate to their everyday life.

**INTRODUCTION TO SPORTS MEDICINE – COURSE #348 [11TH AND 12TH GRADES]**

Be part of a new and exciting course at Carbondale Area, Introduction to Sports Medicine. This new course will offer students the opportunity to learn more about common injuries in sports as well as prevention and rehabilitation techniques. This course is not just for athletes, but anyone interested in sports, medicine, fitness, wellness, or a career in the medical field.

Introduction to Sports Medicine is a course that will engage students in an exciting branch of medicine. Sports medicine is a multidisciplinary course that is highly related to sports, physical fitness, nutrition, rehabilitation, and prevention. Students enrolled in Sports Medicine will dive deeper into common athletic injuries as well as prevention and rehabilitation. Students will also be introduced to numerous career paths related to sports medicine, such as physical therapy, athletic training, nutrition, and more. Students enrolled in this course will learn about certain body systems that are closely related to sports medicine, such as the skeletal, muscular, nervous, cardiovascular, and immune systems. Students that complete "Introduction to Sports Medicine" will have a better understanding of current injuries in sports as well as a strong foundation to begin a career in the medical field.

**ASTRONOMY – COURSE #354 [10TH THROUGH 12TH GRADES]**

This course is an elective course for students in grades 9-12. This course will provide students with a study of the universe and the conditions, properties, and motions of bodies in space. Coursework includes the history of astronomy, gravity, in-depth surveys of planets, exoplanets, and stars, the nature of planetary systems with a focus on our Solar System, as well as the nature and evolution of stars, galaxies and the universe, space exploration, and space technology. The scientific process and research skills are emphasized in this course. This course is designed for students who are curious about the mysteries of the universe. The space program, rocketry, constellations, celestial navigation, life cycle of stars, organization and dynamics of the solar system, galaxies and their interactions, black holes and the warping of time and space. Students who have taken Space Science may not take Astronomy.

**INTRODUCTION TO HYDROPONICS – COURSE #352 [10TH through 12TH GRADES]**

Hydroponics utilizes cutting edge technologies married with ancient concepts of agriculture to engage students in career opportunities including farmer, engineer, marketing specialist, advertising representative, conservationist, and biologist just to name a few. Students will maintain the system to grow food crops as well as experiment with varying growing techniques and conditions in order to fully interact with the technology.

Introduction to Hydroponics is a course that will introduce students to the field of hydroponics/aeroponics. Students will get hands-on experience growing their own food, including different varieties of lettuce and basil, while also learning how to properly maintain a hydroponic system. Students will also learn about basic plant anatomy, plant nutrition (use of fertilizer), plant disorders, current trends in the industry and types of hydroponic systems and the scientific principles and techniques involved in sustainable agriculture and hydroponic crop production.

**CURRENT ISSUES IN SCIENCE – COURSE #359 [10TH through 12TH GRADES]**

This course is an elective science course available for students in grades 9, 10, 11, and 12. This course will provide students practice in science literacy and science discoveries, problems, advancements, and other present science information. The coursework includes events in Pennsylvania, the United States, the Western Hemisphere, and the Eastern Hemisphere. There is no prerequisite for this class.

**VIROLOGY – COURSE #334 [10TH through 12TH GRADES]**

This course is an elective science course available for students in grades 10, 11, and 12. This course will provide students with a study of how viruses were discovered, their subsequent vaccines, and eradications throughout history. Coursework includes an in-depth look at animal, plant, RNA and DNA viruses and bacteriophages, viral reproduction and pathogenicity, characteristics and identification methods, and side effects of treatments and cures. Students will also be informed and able to choose a side of the great virus debate, which includes whether they are living or nonliving organisms. Students may take this with no pre-requisite.

**ZOOLOGY – COURSE #358 [9TH THROUGH 12TH GRADES]**

This course introduces zoology. Zoology is a course that will survey the nine major phyla of the kingdom Animalia beginning with the simplest animals and progressing to the most complex. Zoology is the study of animal life including their anatomy and interrelationships, their physiology and genetics, and their distributions and habitats. This course will include a dissection as well as other hands-on labs. Students will also investigate how humans are influencing these animals.

**CONSERVATION SCIENCE – COURSE #357 [9TH through 12TH GRADES]**

This course is an elective course for students in grades 9-12. There is no prerequisite to enroll in this course. During the first semester this course will provide students with a history of the North American Model of Wildlife Conservation. We will look at topics which include: public lands and waters, private lands, pollinators, licenses, hunting, trapping, and identify plants and wildlife. During the second semester, students will investigate local and non-local conservation

efforts and agencies. They will critique their methods, research, and design a conservation plan for a topic of their choice.

# MATH ELECTIVES

**AP CALCULUS AB – COURSE #441 [12TH GRADE ONLY]**

AP Calculus is available to students who have completed Honors Pre-Calculus/Trigonometry. AP Calculus is an advanced placement elective course, which is equivalent to a full academic's year of work in Calculus and related topics, comparable to courses in colleges and universities. Students must have a thorough knowledge of college preparatory mathematics algebra, trigonometry, and geometry. Students will be encouraged to take the Advanced Placement Calculus examination offered by Educational Testing Service (ETS) of the College Board. The course begins with a review of Pre-Calculus concepts essential to the study of Calculus. The concepts of limits and their properties are covered in detail. The two branches of Calculus, differentiation, and integration, are covered extensively, along with chapters on the applications of both topics. The course concludes with more advanced integration techniques. Professional mathematics organizations have strongly endorsed the use of graphing calculators in mathematics instruction and consequently these calculators are also used throughout the course and are required for a portion of the AP exam AB. The course curriculum, instruction and assessment are aligned with the Pennsylvania Academic Standards for Mathematics as mandated by the Pennsylvania Education Code 22, Chapter 4 regulations. The course's objectives, content and activities prepare students for the AP Calculus AB exam.

**PRE-CALCULUS/TRIGONOMETRY – COURSE #430 [11TH GRADE]**

This course is for the student who has completed Algebra 1, Algebra 2, and Geometry. This course is broken into two parts: Pre-Calculus and Trigonometry. The first part of the course, Pre-Calculus, is designed to prepare students for topics covered in a Calculus course. It begins with a comprehensive study of functions and moves into an analysis of rudimentary calculus concepts such as the difference quotient and the notion of "taking a limit." In addition to introducing students to terminology and concepts essential to the study of Calculus, this course should also help students develop reasoning and analytical skills which may be applied to problems outside the typical realm of mathematics. The second part of the course, Trigonometry, focuses on trigonometric principles as an extension of algebraic and geometrical concepts. Students will study angles, arcs, the unit circle, right triangle trigonometry, the six trigonometric functions, inverse functions, fundamental trigonometric identities, verifying trigonometric identities, solving trigonometric equations, the law of sines, the law of cosines, vectors, and polar coordinates. Graphing calculators, scientific calculators and computer aides will be incorporated using the Pennsylvania and National Standards. The course curriculum, instruction and assessment are aligned with the Pennsylvania Academic Standards for Mathematics as mandated by the Pennsylvania Education Code 22, Chapter 4 regulations. The course's objectives, content and activities prepare students to meet the Pre-Calculus and Trigonometry benchmarks as outlined in the Pennsylvania Academic Standards for Mathematics.

**PROBABILITY AND STATISTICS – COURSE #425 [11TH AND 12TH GRADES]**

Students will learn about: the nature of probability and statistics; organizing data; averages and variations; correlation and regression; elementary probability; binomial distributions; normal

curves and sampling distributions; estimation; hypothesis testing; differences of means and proportions; and chi-squares. Emphasis will be placed on real-world application problems and higher-level thinking word problems. Students may work both individually and collaboratively through solving problems, reading higher level texts, and completing projects to achieve mastery of content.

**FINANCIAL ALGEBRA – COURSE #440 [12TH GRADE]**

Financial Algebra is designed to develop a strong foundation in logical thinking and problem solving that will enable students to make informed decisions regarding matters of money and finance in their daily lives. This course furthers the development of functions, which include linear, piece-wise, quadratics, and step functions. Other topics studied include measures of center and spread, graphical representations of data, principles of finance economics, employment, payroll, loans, compound interest and continuous interest, credit card debt, car ownership, and budgets. The last quarter the students proceed through the EverFi Financial Literacy program which is offered nationwide and includes the modules Savings, Banking, Credit Cards & Interest Rates, Credit Score, Financing Higher Education, Renting vs. Owning, Taxes & Insurance, Consumer Protection, and Investing.

**CONSUMER MATH – COURSE #454 [12TH GRADE]**

Consumer Math is designed to prepare students for life after graduation by giving them a basic understanding of the mathematics they will encounter on a daily basis. This course explores the topics of Employment Basics, Banking Services, Credit Cards, Taxes, Automobile Purchases, Renting/Owning a Home, Budgeting, Retirement, and the Stock Market.

**ECONOMIC EDUCATION/FINANCIAL LITERACY – COURSE #445 [Grades 10 to 12]**

Economic education/financial literacy is the integration of various factors relating to personal financial management including: understanding financial institutions; using money; learning to manage personal assets and liabilities; creating budgets; and any other factors that may assist an individual in this commonwealth to be financially responsible.

# COMPUTER TECHNOLOGY ELECTIVES

**INTRODUCTION TO COMPUTER SCIENCE – COURSE #405 [GRADES 10 TO 12]**

In this course students will learn the basics of computer programming along with the basics of computer science. The emphasis is on computational thinking and will help students develop their ability to solve complex problems. This course uses code-along videos to build the necessary skills for students to gain a deeper understanding of computer science and programming. The primary language used is Python and students will learn to program basic number calculations, use repetition and loops, program to create graphics, functions, arrays, 2D arrays, with some programming in EarSketch which adds music to their programs.

**AP COMPUTER SCIENCE PRINCIPLES – COURSE #404 [GRADES 11 AND 12]**

This course introduces students to the five [5] big ideas in computer science. These ideas are the creative aspects of programming, abstractions, algorithms, large data sets, the internet, cybersecurity and how computer impacts our world. This course is project-based using collaborative learning as a tool to address real-world problems. Computational thinking practices

developed by students in this course include designing and evaluating solutions for purpose, developing and implementing algorithms, and programs that incorporate abstractions, evaluating and testing algorithms and programs, investigating computing innovations and using responsible computing in a safe, collaborative, and ethical manner.

# WORLD LANGUAGES ELECTIVES

## SPANISH

**SPANISH I – COURSE #595**

This course is an introduction to the Spanish language. It provides basic understanding of the Spanish language and culture through reading, writing, speaking and listening. Students focus on pronunciation, basic vocabulary (including school, city and family vocabulary) and simple grammatical structures. To begin to develop the ability to communicate effectively in Spanish, students work together with partners or small groups to develop basic conversations and ask/answer questions. Students are introduced to the Spanish-speaking countries, their holidays and customs. They also look at Puerto Rico and the countries of Mexico and the Dominican Republic more extensively.

**SPANISH II – COURSE #526**

This course reinforces and builds upon the knowledge gained in Spanish I through reading, writing, speaking and listening. While continuing to focus on pronunciation and constructing grammatically correct sentences and questions, students are introduced to a more extensive vocabulary (including pastimes, celebrations, house and chores, weather and food vocabulary). To further develop the students' ability to communicate effectively in Spanish, students begin to look at more complex grammatical structures and continue to work together to converse and practice their listening and speaking skills. Students are required to present brief reports in Spanish as well as construct written reports in Spanish using the appropriate vocabulary and grammatical structures. Students continue to explore the customs of Spanish-speaking countries with a focus on the countries of Costa Rica, Nicaragua, Venezuela, Colombia, Argentina and Chile.

**SPANISH III – COURSE #537**

This course continues to reinforce and build upon the knowledge gained in Spanish I and Spanish II through reading, writing, speaking and listening. While continuing to focus on pronunciation and constructing grammatically correct sentences and questions, students expand upon their extensive vocabulary (including clothing, vacation, technology, daily routine, city, shopping and animals vocabulary). Students develop their knowledge and usage of more complex grammatical structures. To further enhance the students' ability to communicate effectively in Spanish, students learn to use a wide variety of verb tenses in their speaking and writing and continue to work together to converse and practice their listening and speaking skills. Students continue to explore the customs of Spanish-speaking countries with a focus on the countries of Mexico, El Salvador, Honduras, Cuba and Puerto Rico. Students explore the history of the Kuna Indians and their artwork "Las Molas" as well as the artwork of Mexican artists.

**SPANISH IV – COURSE #548**

This course continues to reinforce and build upon the knowledge gained in Spanish I, II, and II through reading, writing, speaking and listening. While continuing to focus on pronunciation and constructing grammatically correct sentences and questions, students expand upon their extensive vocabulary (including supermarket, clothing store, extended house, rules, news and airport vocabulary). To further enhance the students' ability to communicate effectively in Spanish, students expand their knowledge and usage of more advanced grammatical structures, continue to use a wide variety of verb tenses in their speaking and writing, and continue to work together to converse and practice their listening and speaking skills. Students explore the customs of Spanish-speaking countries with a focus on the countries of Spain, Paraguay, Uruguay, Bolivia, Colombia and Ecuador.

# FRENCH

**FRENCH I – COURSE #591**

This course is an introduction to the French language. It concentrates on the fundamentals of the French language and culture through reading, writing, speaking, and listening comprehension. To develop basic communication skills for written and spoken French, students learn foundational vocabulary, verb conjugation, and grammatical structures. In addition, students practice pronunciation through aural/oral repetition and construct basic communicative responses to questions. Students will begin the study of the French and Francophone culture.

**FRENCH II – COURSE #522**

This course builds upon knowledge and skills acquired in French I to move students toward developing greater fluency in speaking and writing the French language. Students acquire more extensive vocabulary and more complex grammatical structures to enhance their ability to communicate effectively in spoken and written French. In addition, this course continues to integrate reading and listening activities to reinforce students' knowledge and understanding of acquired vocabulary and sentence patterns and improve their ability to appropriately translate and comprehend written and spoken French. Students continue to practice pronunciation through aural/oral repetition and construct communicative responses to more involved questions, as well as gain increased understanding of the French and Francophone culture.

**FRENCH III – COURSE #533**

This course continues to reinforce and build upon the knowledge and skills acquired in French I and II through reading, writing, speaking, and listening comprehension. To advance the students' ability to communicate effectively in French, students continue to acquire and apply common and specialized vocabulary and phrases, as well as complex grammatical constructions. Likewise, they initiate and respond appropriately to increasingly involved conversations to demonstrate greater fluency in speaking and writing. Reading and listening skills also advance to the intermediate level to demonstrate an increased knowledge and understanding of the French language. Students further deepen their study of the French and Francophone culture with analysis and comparison of distinct customs and perspective.

# PRACTICAL ARTS ELECTIVES

**ACCOUNTING I– COURSE #634 [GRADES 11 AND 12]**

This course is designed to help students understand the basic principles of the accounting cycle. Emphasis is placed on analysis and recording the basic principles of the preparation and interpretation of financial statements; accounting systems; banking and payroll activities; basic types of business ownership; and accounting career orientation. Mathematical skills and critical thinking are reinforced.

**INTRO TO BUSINESS/ENTREPRENEURSHIP – COURSE #651 [GRADES 11 AND 12]**

This course will familiarize students with the basics of terminology of the business and work world. It will also serve as a background for other business courses in high school, college, or any business training facility. The most relevant business topics to be covered include the role of entrepreneurship in the global economic recovery. Topical data on how to conduct research and the importance of research as part of the entrepreneurship are also covered.

# FINE ARTS ELECTIVES

**ART I – COURSE #701 [GRADES 9 TO 12]**

Art I is a full credit course that meets for one class period daily for the entire school year. It is an introductory course that combines studio production (learning to make art), art history (learning about art), and criticism/aesthetics (learning about art). It begins with an introduction to visual vocabulary. Emphasis is placed on helping the student to develop a working knowledge of art elements and principles and basic drawing and painting skills. This is accomplished through a series of lectures and teacher demonstrations that culminates in studio activities. It allows students to experience working with a variety of media as they explore the link between artistic theory and individual creativity.

**ART II – COURSE #702 [GRADES 10 TO 12]**

Art II is a full credit course that meets for one class period daily for the entire school year. This course combines studio production (learning to make art), art history (learning about art), and criticism/aesthetics (learning about art). It begins with a review of basic visual vocabulary. Emphasis is placed on helping the student to further develop a working knowledge of art elements and principles and strengthening basic drawing and painting skills. This is accomplished through a series of lectures and teacher demonstrations that culminates in studio activities. It allows students to experience working with a variety of media as they explore the link between artistic theory and individual creativity and self-critique.

**ART III – COURSE #703 [GRADES 11 AND 12]**

Art III is a full credit course that meets for one class period daily for the entire school year. This course combines studio production (learning to make art), art history (learning about art), and criticism/aesthetics (learning about art). It begins with a brief review of basic visual vocabulary and is followed with the introduction of advanced visual vocabulary. Emphasis is focused on helping the student to further develop and assess the use of art elements and principles in their work and the work of others. Use of color, shading and personal style development is

emphasized. This is accomplished through a series of lectures and teacher demonstrations that culminates in studio activities. It allows students to experience working with a variety of media as they explore, compare, and contrast the link between artistic theory, individual creativity/style and self-critique.

**INTRODUCTION TO THEATER ARTS – COURSE #736 [9TH through 12TH GRADES]**

This course provides students with a brief study of the origins and history of theatre from the ancient Greeks to the present, acting techniques and improvisation, stage directing, play analysis, character development, playwrighting, theatre production, and performance. Throughout this course, students will participate in collaborative classroom activities, read and analyze play scripts, learn how to communicate meaning through the voice and body, research various jobs in theatre, analyze dramas/musicals, and learn about famous contributors to theatre and acting. Students will learn to construct written critiques of professional and student productions, reflect upon theater's connection to their own lives and the world at large, and examine various Theater Arts careers.

# MUSIC ELECTIVES

**ADVANCED BAND – COURSE #735**

Advanced band is designed to provide students with a performance experience with music at the easy-medium to medium-hard level and will include both new and old compositions from the wind band repertoire, in addition to continue developing fundamental music elements to help strengthen students' musical abilities in a performance setting. Instruction areas include proper instrument techniques, proper fingerings/slide positions for each instrument, development of quality tone production and performance range, basic music theory, major scales, and performing in modes, all the while gaining a string understanding of performing as an ensemble. Playing exams will be conducted during each grading period to include excerpts from the music being performed in class and scales. Student lessons will be available during the day and will be graded on attendance. Students are expected and encouraged to practice their instrument at home and must be available for evening concerts and performances, as it is part of the student's grade. Dress rehearsals will be held before each concert, which are also part of the student's grade. Pre-requisite: Prior instrumental music study in elementary and beginning band is encouraged in addition to a positive attitude and genuine desire to contribute to a musical performing ensemble. The Advanced Band consists of students in 9th grade who wish to perform in an instrumental ensemble and for those who wish to continue their instrumental music performing experience.

**CHORUS – COURSE #723**

Chorus provides an opportunity for participating students to become acquainted with two, three, and four-part harmony, solo performance, group participation, community involvement, organizational skill, public performance and self-esteem. Students will also become familiar with conventional musical selections, familiar with world songs, foreign pieces and more unconventional texts and pieces (including holiday, classical, show tunes, standards, etc.). Students will also learn to work as a "team" and to work with each other's talents and excitement for the art of singing.

**ADVANCED CHORUS – COURSE #724**

Advanced Chorus, a full credit course, provides an opportunity for participating students to study, rehearse, and perform choral music. In doing so, proper techniques for healthy, intelligent singing are discussed and demonstrated through performance of the choral literature. A basic understanding of music theory is gained through daily rehearsals. Students learn and improve on music reading ability during daily sight-reading exercises and periodic sight-reading tests. Students have the opportunity to audition for and/or participate in All-State Choirs, All-County Choirs, NEIU19 District Chorus, District Solo and Ensemble Festival, Community Performances and Music Honor Society. After school, evening, and weekend activities are part of the course requirements.

# FAMILY AND CONSUMER SCIENCE ELECTIVE

**Nutrition, Wellness, and Independent Living – COURSE #766 [Grades 10 through 12]**

This course prepares students for the future by understanding today's foods and eating trends, learning to evaluate nutritional information to make informed decisions about basic food preparation and food choices for a long and healthy lifestyle. Students will explore personality development and the responsibilities of being a mature person, building communication, and decision-making skills. They will develop strategies for handling family challenges and creating positive relationships. They will learn about managing finances, making housing decisions, family responsibilities, and caring for children in preparation for life after high school.