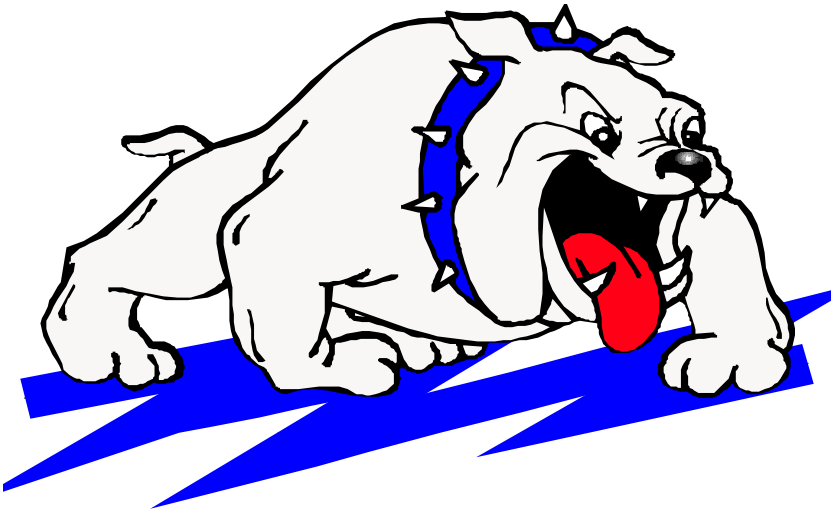
WEST YORK AREA HIGH SCHOOL

COURSE SELECTION GUIDE

2016 - 2017



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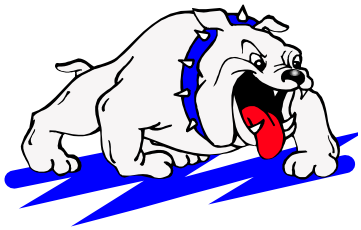

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WEST YORK AREA HIGH SCHOOL
COURSE SELECTION GUIDE

Dear Student and Parent:

This course selection guide has been prepared for students and their parents to use in deciding which classes are best suited to the students' goals, interests, aptitudes and abilities. Selecting the most appropriate courses is the first important step in achieving an individual's educational goals. Please think carefully about the decisions you are making regarding educational programs for the next school year, as choices selected now will determine the assigned classes for the upcoming school year. Your choices now will help determine chances for success in future years of education or employment.

In the event that more information is needed about the course selection itself, college admissions, course requirements, or employer demands for the completion of certain courses while in high school, discuss your questions with a school counselor.

Ms. Heidi Tison, Counselor	Grades 9-12	A - G
Mr. Elliott Leonard, Counselor	Grades 9-12	H - O
Ms. Rachel Smethers, Counselor	Grades 9-12	P - Z

Make the very best use of your four years at West York Area High School. With the guidance of your counselor, teachers, and parents, carefully choose the classes that will help fulfill your needs and interests, as well as develop your talents and abilities.

With Bulldog Pride,

Janet M. May
Principal

OPENING MINDS THROUGH EDUCATIONAL EXCELLENCE

OUR MISSION:

The mission statement of West York Area School District is Opening Minds through Educational Excellence.

GRADUATION REQUIREMENTS

A summarization of the requirements for graduation is provided to assist you as you plan your course of study. Students must earn 28.5 credits and demonstrate proficiency in the Pennsylvania Academic Standards in order to graduate.

The following must be included:

English	4 credits
Mathematics*	4 credits
Social Studies	4 credits
Science	3 credits
Arts/Humanities	3 credits
Physical Education	2 credits
Health	1 credit
Safety Education	.5 credit
Independent Living	.5 credit
Graduation Project	.5 credit

*Mathematics – The Personal Finance course offered through the Business Education department may be substituted for one math credit.

The total credits for each subject area must be passed in order to qualify for graduation. The remainder of the courses a student takes is based upon advice from counselors, parents, and teachers, as well as the student's identified areas of interest.

To advance from grades nine through twelve, the following credits must be earned. ALL requirements must be completed in order to participate in the graduation ceremony.

6 credits	10th grade
13 credits	11th grade
20.5 credits	12th grade
Graduation Total	28.5 credits

GRADUATION PROJECT

In accordance with Chapter 4 regulations in the PA School Code, the West York Area High School has designed the Graduation Project to be completed as a requirement for graduation.

GRADUATION PROJECT REQUIREMENTS

- The Graduation Project must contain a written, oral, and visual component.
- The project must be an original and used only to obtain credit for the "Graduation Project."
- The project must be completed individually unless otherwise approved by administration.
- Students must use computer technology and outside resources in producing the project.
- The written portion of the project must be typed following MLA style.
- The written portion should use a variety of references.
- The student will present the project to a two to four member assessment committee and answer any committee questions pertaining to the project.
- The Graduation Project must be completed and presented by the end of the student's junior year.

Students who do not successfully complete the project during the spring of their junior year may attempt to pass it one additional time in the fall of their senior year. If they fail a second time, the student WILL NOT BE ALLOWED TO PARTICIPATE IN THE GRADUATION CEREMONY, but will be permitted to re-present during the summer in order to receive a diploma. Students who refuse to attempt to complete or present their Graduation Project during the designated time of their junior year WILL NOT BE ALLOWED TO PARTICIPATE IN THE GRADUATION CEREMONY, but will be permitted to re-present during the summer following their senior year in order to receive a diploma. Students not successfully completing ALL graduation requirements will not be allowed to participate in the graduation ceremony.

PENNSYLVANIA KEYSTONE EXAMS

High school graduation requirements have been implemented by the Commonwealth of Pennsylvania in order to help ensure that our students are prepared for college and a career. Along with the current requirements of course completion, a culminating project, and demonstration of proficiency in the state standards, students must demonstrate proficiency on various Keystone Exams. Students unable to pass these exams will be provided remediation, as well as an alternate pathway to successful completion of the requirements.

The Keystone Exams will be given at the conclusion of the corresponding course, but no later than the junior year. Students must score at a proficient level on the following Keystone Exams: Algebra I, Literature, and Biology.

GUIDELINES FOR HONORS/ADVANCED PLACEMENT CLASSES

To enter the Honors classes, the student must meet at least one of the two following criteria.

1. Have obtained a final grade of an A (92%-100%) in the subject for the year/course immediately preceding the Honors course.
2. Have earned a 92% or higher cumulative grade point average.

To enter the Advanced Placement classes, the student must meet at least one of the two following criteria.

1. Have obtained a final grade of an A (92%-100%) in the Honors course immediately preceding the Advanced Placement course.
2. Have earned a 95% or higher cumulative grade point average.

DUAL ENROLLMENT

Seniors and juniors will have the opportunity to participate in a Dual Enrollment program offered through the West York Area School District in conjunction with The Pennsylvania State University/York, York College of PA, and Harrisburg Area Community College (HACC)/York Campus. Students meeting the eligibility requirements of a minimum 92% GPA in the academic area of the desired course or a 1500 SAT score (Verbal/Math/Writing) and having the recommendation of a guidance counselor or the principal may, upon acceptance by the college or university, enroll in a course not offered through the high school and, upon successful completion, receive both high school and college credit for the course.

COLLEGE ENTRANCE REQUIREMENTS

The following program (grades 9-12) would meet the entrance requirements of almost every college in the United States:

English (Honors, A.P.)..... 4 years
Math..... At least 4 years
(Honors Geometry or Geometry, Honors Algebra II, Probability and Statistics or Pre-Calculus, Calculus or AP Calculus)
World Language.....3 years of same language
Social Studies..... 4 years
Science..... 4 years
(Biology, Chemistry, Physics)

This program will meet the entrance requirements of most colleges:

English (College Prep)..... 4 years
Math..... 4 years minimum
(Algebra I (A & B), Geometry, Algebra II, Algebra III, Probability and Statistics or Pre-calculus)
World Language.....2 years of same language
Social Studies..... 4 years
Science..... 3 years
(Biology, Chemistry, Physics)

For students interested in going into the field of business or to a business-related post-secondary school, it is advisable for you to take the following courses:

English..... 4 years
Math..... 4 years
(Algebra I (A & B), Geometry, Algebra II, Probability and Statistics)
Social Studies..... 4 years
Science..... 3 years
(Biology, Chemistry, Physics)
Electives: Computer Electives: Applications, Programming,
Multimedia Video Production, Web Page Design
Accounting I
Business and Personal Law
Introduction to Business
Personal Finance
World Language (2 years of same language)

For students interested in going to a college of technology or into a specified trade, it is advisable to take the following courses:

English..... 4 years
Math..... 4 years
(Algebra I (A & B), Geometry, Algebra II, Probability and Statistics)
Social Studies..... 4 years
Science..... 3 years
(Biology, Chemistry, Physics)
Diversified Occupations/Work Experience

WEIGHTED COURSES

All courses, unless otherwise indicated, are weighted one point.

NINE POINT WEIGHTED COURSES

- Advanced Placement Calculus I (AB)
- Advanced Placement Calculus II (BC)
- Advanced Placement Chemistry
- Advanced Placement English
- Advanced Placement European History
- Advanced Placement Government
- Advanced Placement Physics I
- Advanced Placement Physics II
- Advanced Placement Statistics
- Advanced Placement US History
- Biology II
- Music Theory
- World Language V and VI (Independent Study)

FOUR POINT WEIGHTED COURSES

- Honors English 9, 10, 11, and 12
- Honors American Cultures II
- Honors World Cultures
- Honors American Political System and PA Government
- Honors Algebra II
- Honors Geometry
- Pre-Calculus
- Calculus
- Honors Biology I
- Honors Chemistry I
- Honors Physics I
- Human Anatomy and Physiology
- Honors Intro. to Engineering
- World Language IV

GENERAL INFORMATION

The following information is provided to better acquaint parents and students with the course offerings, requirements, and policies in grades 9 through 12.

The school district reserves the right to cancel any course(s) for which there is insufficient enrollment. If more students than can be accommodated choose an elective, seniors will be given preference since underclassmen may reschedule the elective the following year.

The school day is from 7:45 AM to 2:55 PM consisting of four 80-minute periods with five minutes passing time between periods. The lunch schedule is developed within the third block class. This period is 120 minutes in length with 40 of those minutes set aside for lunch for the students. Depending on the schedule, the student will eat during the first 40 minutes, the second 40 minutes, or the third 40 minutes of third period. At the end of each regular school day, there is a flex period. Flex periods will be used for W.I.N. time (What I Need) or academic interventions, Advisory, or Clubs. Students in need of assistance to achieve academic standards can expect to be assigned to an extended learning opportunity during flex period. Those determinations will be made based upon review of the results of standardized and district assessments.

One-credit courses will meet every day in the cycle and .5 credit courses meet on alternate days of the six-day cycle. Students must attempt a minimum of three credits per semester to be eligible for "Honor" status. Students and parents may access the on-line grading system to view student grades throughout the semester.

The Career Internship is an opportunity provided for seniors who are interested in participating in a career-work related experience. Seniors who are interested in this program should schedule an appointment with their guidance counselor in order to express interest in the career internship and determine if the career choice is a realistic one for the student. The student, with the help of the counselor and/or internship coordinator, has the responsibility of obtaining the career internship. Career Internships will be given a grade of P (pass) or F (fail) at the conclusion of the internship.

The Independent Study program is designed for seniors who have demonstrated a high degree of motivation and the ability to work independently and who have an interest in furthering their knowledge in a specific area. For a student to qualify for independent study, the student must have successfully completed all courses in that specific curriculum area. Students interested in the Independent Study program should see their guidance counselor for complete information.

Vocational and technical education programs are available to students from West York at the York County School of Technology (YCST). Presently, students may elect to enroll in one of twenty-five trade or technical areas offered at the school. Students are eligible to attend the YCST upon successful completion of grade eight (8). During the 8th and 9th grade school year, an opportunity will be available to visit and apply to York County School of Technology. Tenth graders may also apply for admission but are restricted to select technical preparation programs. Tenth grade students must successfully complete ninth grade classes in the four major subject areas of English, math, science, and social studies for a total of four (4) credits in these areas. Students must have obtained a total of six (6) credits to be in grade 10. Students should see their counselor if interested in this opportunity.

Additionally, juniors and seniors may attend the York County School of Technology on a part-time basis for selected classes. Information as to available classes may be obtained through the Counseling Center.

Seniors may also attend HACC Academy for half of the day where they can concentrate on various career programs. Please refer to the Career Education and Work section of the Course Selection Guide for specific details as to courses available.

SCHEDULE CHANGE PROCEDURE

The selection of an appropriate schedule is an important consideration that deserves the careful attention of students and their parents or guardian. **STUDENTS MUST SCHEDULE EIGHT CREDITS PER YEAR, FOUR CREDITS PER SEMESTER.** Please read the Course Selection Guide, consider carefully the courses that are available, and review the high school graduation requirements when planning a schedule. Students, guidance counselors and administrators will work together to create a balanced student schedule with regard to core subject areas and previous course accomplishments.

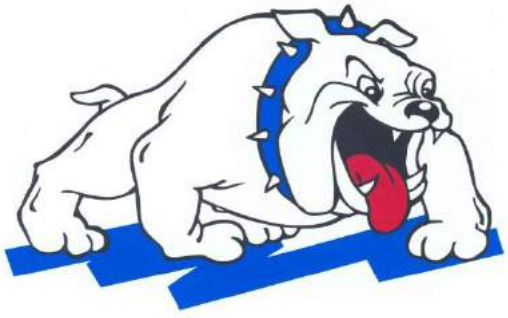
Be reminded that students are scheduling courses for the entire year.

1. A window of opportunity to make any schedule change will be provided during the month of August for those students who are missing a class or must repeat a class. Students and parents should call the Counseling Center to schedule an appointment.

2. Change requests will require administrative approval and will be accommodated based upon the master schedule and seating capacity. Schedule changes will not be made for teacher preferences or convenience purposes. Schedule changes will not be made once the school year begins.

3. The administration reserves the right to rearrange a student's schedule in an attempt to balance class size.

4. Any scheduling concerns should be brought to the attention of the student's counselor. Any changes must be approved by the administration.



ART

The art courses are designed to give the student a survey study of art from primitive times to present with an in-depth study of media, techniques and materials. Upon completion of these courses, the student should have an adequate portfolio for entrance into an art school of choice.

ADVANCED ART MAJORS - 1 credit
Prerequisite: At least three previous art courses, with at least one being an 83% in a level III course
Open to students in grades 11 and 12

This course is open to juniors and seniors who have successfully completed advanced art courses and have permission from an Art Department faculty member. The focus of the course will be independent exploration of selected materials, with an emphasis in either Drawing and Painting or Sculpture and Ceramics. If applicable, students will be assisted in creating a portfolio.

ART APPRECIATION – 1 credit
Open to students in grades 10, 11, and 12

Why do artists create art? This course will explore the visual arts and give each student an introduction to art history and art in the world around them. Students will learn to evaluate, discuss and critique works of art, as well as create studio projects to develop an appreciation for various art materials. This course is strongly recommended for students who plan to major in art, architecture, or history in post-secondary education.

CERAMICS I - 1 credit
Prerequisite: 80% or higher in Sculpture I
Open to students in grades 10, 11, and 12

This course will emphasize original ideas in clay and will deal with mostly functional pieces. Students will work with the potter's wheel, hand building, glazing, and firing.

CERAMICS II - 1 credit
Prerequisite: 80% or higher in Ceramics I
Open to students in grades 11 and 12

This advanced course will reinforce concepts introduced in Ceramics I such as hand building, slab building, and coil building. Working with different types of clay, students will explore in more depth throwing on the potter's wheel, glazing techniques, and firing. Art history and contemporary clay works will be used as a basis of expression.

DRAWING AND PAINTING I - 1 credit
Open to students in grades 9, 10, 11, and 12

This course is designed as an introductory course for students with little or no art experience. Students

will learn the foundations of drawing through the use of pencil, charcoal, colored pencil, and pastel chalk. Students will also experience color mixing and painting with watercolor and tempera paint. This course will introduce students to the topics of art history, aesthetics, and art criticism. Students will develop a working vocabulary as they discuss and critique their own artwork, as well as that of others.

DRAWING AND PAINTING II - 1 credit
Prerequisite: 80% or higher in Drawing and Painting I
Open to students in grades 10, 11, and 12

This advanced course will reinforce concepts introduced in Drawing and Painting I. Emphasis will be placed on life drawing, color theory, and mixed media products. Art history will be incorporated as a basis of expression.

DRAWING AND PAINTING III - 1 credit
Prerequisite: 80% or higher in Drawing and Painting II
Open to students in grades 11 and 12

This course, designed for third-year drawing students, builds upon concepts introduced in Drawing and Painting I and II. Students will delve more deeply into acrylic painting techniques and mixed media. Life drawing will also be emphasized through sketchbook and class assignments. Art styles and art history will be incorporated as a basis of expression. Students are expected to have an individual direction which they are interested in exploring on a more independent basis.

GRAPHIC COMMUNICATIONS – 1 credit
Open to students in grades 9, 10, 11, and 12

Graphic Communications is an introductory course that explores the technological processes used to produce and deliver both graphic and electronic media. Students will have exposure to three main aspects of Graphic Communications: Digital Photography, Graphic Design and Printing Technologies. In the Photography Unit, students will use professional-grade digital cameras to learn how to control exposure and how to take better-looking photos. Students will also get experience in hands on printing when they operate the offset lithography press and screen print. Finally, students will learn the basics of logo design and learn how to create visual images using the Adobe Creative suite. Students will be required to pay a $10 lab fee to help offset the cost of the materials used.

SCULPTURE I - 1 credit
Open to students in grades 9, 10, 11, and 12

This course involves a study of three-dimensional, non-functional forms with an emphasis on design, materials, ideas, and periods of sculpture. Some materials to be used are plaster, Styrofoam, clay, wire, wood, and cloth. Drawing will be covered independently and in conjunction with assignments.

SCULPTURE II - 1 credit
Prerequisite: 80% or higher in Sculpture I
Open to students in grades 10, 11, and 12

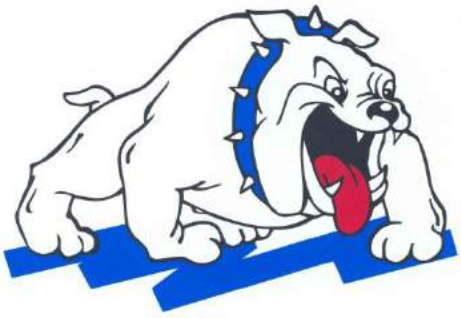
This course will involve a continued personal investigation into the use of various materials and ideas to solve problems that are three-dimensional and non-functional. Some materials to be used are clay, plaster, wood, and wire. Contemporary sculpture, as well as sculpture of the past, will be discussed. Some drawing assignments are required.

SCULPTURE III - 1 credit
Prerequisite: 80% or higher in Sculpture II
Open to students in grades 11 and 12

This studio course will continue to explore non-functional ideas that are three-dimensional. Original thinking, design concepts, and skills will be further developed through more advanced assignments.

VISUAL COMMUNICATIONS - 1 credit
Prerequisite: 80% or higher in Graphic Communications or Drawing and Painting I
Open to students in grades 10, 11, and 12

In Visual Communications students will use current technologies including iMac computers to explore design and marketing . This studio course will combine traditional art making techniques with graphics to prepare students for a future in Graphics, Marketing and other art related careers. Students will explore the concepts of product design from idea to production, packaging and marketing.



BUSINESS EDUCATION

ACCOUNTING I - 1 credit
Open to students in grades 10, 11, and 12

Whether going to college or getting a job following high school, accounting is an important class. More and more college degrees are requiring accounting classes. Or, for those planning on entering the work force after high school, this class will help obtain an entry-level accounting position. Accountants rule the business world and communicate with the language of business (accounting). Both manual and computerized accounting will be used to complete the accounting cycle for a sole proprietorship and a partnership.

BUSINESS AND PERSONAL LAW - 1 credit
Open to students in grades 10, 11, and 12

Learn how the law affects you personally as a student, citizen, consumer, and family member. Everyone will need to know various aspects of the law in order to function well as an adult. Learn about criminal, civil, consumer, contract, employment, housing, and family law. Learn how individual rights and liberties affect you in the workplace. Group discussions and teamwork are utilized while analyzing various case studies and performing mock trials and skits. Current real-world events that illustrate the type of law currently being studied show the relevancy of the material and how it applies to everyday life.

COMPUTER APPLICATIONS I - 1 credit*
Open to students in grades 9, 10, 11, and 12

Everyone is encouraged to take this course in order to learn how to use applications that can be used to complete papers, reports, projects, and presentations in current high school classes, or in the future for college classes and even the work place. This course will start with a quick review of proper touch typing skills (the ability to type without looking at your fingers). Students will use Microsoft Office 2010 and other business software to learn word processing, spreadsheet, and presentation applications. Students will create a variety of communication documents; prepare, manipulate, and graph data in spreadsheets; and create effective and exciting presentations utilizing features available in modern presentation software. Ultimately, students will learn how to use computers more proficiently. This class may be offered in a "blended" approach (i.e., a combination of in-class and on-line learning).

*If a student feels that he/she has sufficient abilities in computer applications, he/she may elect to test out of this class. Successful completion of the test will allow a student to take any computer class and bypass the prerequisite course of Computer Applications I; however he/she will not receive a credit for Computer Applications I. Successful completion of the test does not ensure the student a spot in next semester's computer classes due to limited class size. Please see a Business Education teacher to obtain the required information needed for the testing out procedure.

COMPUTER APPLICATIONS II – 1 credit
Prerequisite: Computer Applications I
Open to students in grades 10, 11, and 12

Students will learn the most important computer applications needed for a future in the business world – spreadsheets, databases, presentations, and word processing. This class will focus heavily on Microsoft Office 2010, but students will also be exposed to other applications available in today's business world. Students will create documents that utilize advanced concepts available in these applications. If considering a job in the business world or planning on attending college, then this is the course to take.

COMPUTER PROGRAMMING - 1 credit
Prerequisite: Computer Applications I
Open to students in grades 10, 11, and 12

Interested in learning how video games are programmed or how a computer does what you tell it to do? Computer Programming is the class. Students will create computer programs that are useful in real life situations. Student will create programs in Microsoft Visual BASIC, Alice 2.0, and Visual C# to create basic computer applications, computer animation, and video game programming. Students considering this class should possess firm computer skills, as well as the ability to solve algebraic equations. Students planning on a career in computers should take this course.

INTRODUCTION TO BUSINESS - 1 credit
Open to students in grades 9, 10, 11, and 12

We are experiencing exciting economic times in the business world today. This affects each one of us in one way or another. This course covers a wide range of activities in the business world and gives students a basic understanding of the American economic system. Learn about the economy, forms of business enterprise, credit, careers, consumer decisions, marketing and entrepreneurship. This class also provides the opportunity to participate in mass production and create a business plan for a business of your choice.

MULTIMEDIA VIDEO PRODUCTION - 1 credit
Open to students in grades 9, 10, 11, and 12

In this class, students will use video cameras, video production software, digital cameras, microphones, and other electronic devices to create videos and multimedia presentations. Other skills include creating sound files and using graphics, pictures, sounds, video, text, and motion in the production of different video projects. Learn how to use editing software to create, edit, and produce videos for school projects, YouTube, Facebook and other forms of media. Give yourself an edge by learning how to produce imaginative and captivating videos and presentations. This course is definitely a plus for college, Graduation Project, other class projects, and future employment.

PERSONAL FINANCE - 1 credit
Open to students in grades 10, 11, and 12

Gain hands-on experience in buying a car, renting an apartment, opening and maintaining a bank account, buying a house, making investment decisions and more before entering the "real world." Using simulations and first-hand experiences, students will learn the money fundamentals necessary to survive in the 21st century economy. Special emphasis will be placed on topics and decisions that students will make in their lives immediately following the completion of their formal education. This class may be offered in a "blended" approach, meaning students will have a combination of in-class and on-line

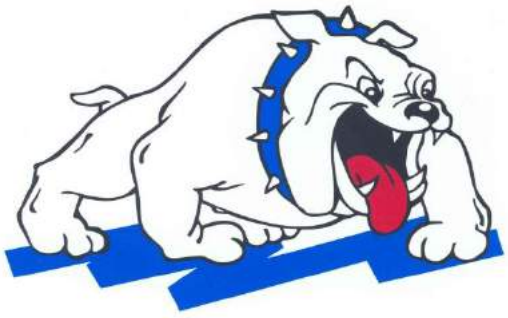
learning that will develop a student's time management skills. Additionally, a credit for the Personal Finance class may be substituted for one math credit in graduation requirements.

SPORTS & ENTERTAINMENT MARKETING – 1 credit
Open to students in grades 10, 11, and 12

This class explores key marketing concepts through a sports and entertainment perspective. Students will learn the fundamentals of marketing and how those ideas are applied to sports, entertainment, events, and recreation. Students will work individually and collaboratively to complete class activities, projects, and presentations related to professional sports, amateur sports, promotion/advertisement, sponsorship, endorsement, travel/tourism, and current events. Students planning on a career in business should take this course.

WEB PAGE DESIGN I – 1 credit
Prerequisite: Computer Applications I
Open to students in grades 10, 11, and 12

Want to be a web master? More and more people are creating their own web sites. Include graphics, pictures, sounds, video, text, and motion in your web site to make it rise above the rest. Write HTML code, use CSS and an HTML editor (Dreamweaver) to produce web sites.



CAREER EDUCATION AND WORK

CAREER INTERNSHIP – 1 credit
Open to students in grade 12

The Career Internship is an opportunity provided for seniors who are interested in participating in a career related experience. This experience enables a senior to learn about a specific career area in an appropriate setting. By interning in the specific career, the student will learn the skills that are needed for the job, the training that is necessary, and the opportunities for employment. The senior will spend part of the school day in the career setting.

The student has the responsibility to talk to the counselor and express his/her interest in the career internship to determine if the career choice is a realistic one for the student. Following this discussion, the student, with some help from the counselor and/or internship coordinator, has the responsibility of securing a career internship sponsor. The student needs to complete the Career Internship application, which includes the arrangements (hours, place, and expectations), made with the potential supervisor of the career internship, parent permission to participate in the internship, and signatures of appropriate school officials. A senior may be eligible for up to two blocks of interning for the school year.

Requirements for the internship include completion of required paperwork, attendance at scheduled meetings with the Career Internship coordinator, journals, mid-semester and final evaluations from the internship site supervisor, and a final project. Journals will contain a minimum of weekly entries reflecting what the student has learned and in what specific activities the student has participated. Career Internships will be given a grade of P (pass) or F (fail) at the conclusion of the internship.

DIVERSIFIED OCCUPATIONS AND WORK EXPERIENCE – 3-5 credits*
*Classroom instruction - 1 credit – full year
Work Experience – 1 credit per semester (2 credits)
HACC Academy – 1-2 credits per semester
YCST Flex classes – 2 credits per year
Open to students in grade 12

The purpose of this program is to provide a combination of high school instruction and work experience. Occupational training is conducted under the supervision of the district's Diversified Occupations teacher through a cooperative program with businesses and industrial organizations. Students will be scheduled for three periods of classroom instruction per cycle. In addition to the classroom, students will be required to spend a minimum of twenty hours per week in supervised on-the-job training in approved occupational areas or attend a HACC Academy or a YCST Flex course. Upon satisfactory completion of all aspects of the program, students will receive 3-5 credits for the school year.

HACC ACADEMY

The West York Area School District is in a partnership with the HACC Academy in order to provide our seniors with occupational training and worksite experience. The program offers a combination of theory instruction and hands on lab experiences. Students must be enrolled in the Diversified Occupations program in order to be considered for entrance to any HACC Academy programs.

HACC Academy is located at 2101 Pennsylvania Avenue in York. Transportation and specific equipment/clothing requirement costs based upon the selected course are the responsibility of the individual student. Please see a guidance counselor or the Diversified Occupations teacher for further details. Course offerings are as listed below.

AUTOMOTIVE TECHNOLOGY – 4 credits (full year course)
Open to students in grade 12

The Automotive Technology program will train students for entry-level automotive technician jobs. The curriculum includes automotive theory, workshop safety, electrical, automotive systems and preventive maintenance, hand tools, shop equipment, diagnostic equipment and specialty tools, suspension and steering systems, wheel alignment, brake systems, and engine performance. Students will learn about careers in the automotive industry and workplace skills. This program introduces students to the Pennsylvania State Inspection process and requirements. Students will be required to pass a written exam and inspect a vehicle as part of the testing procedure to earn a Pennsylvania State Inspection License. Students will be required to perform the Pennsylvania emission test and to take the computer based and written Pennsylvania Emissions Inspection Certification exams. Training includes monthly shadowing opportunities and a field trip to Pennsylvania Auto Show in Harrisburg.

INDUSTRIAL TECHNOLOGY (HVAC, ELOC, WELD, SAFETY IN THE WORKPLACE – 4 credits (full year course)
Open to students in grade 12

The Trade and Industrial Technology program provides students an introduction via theory and labs to a variety of trade and industrial technology courses. The modules included are Electrical Wiring, HVAC, Welding, and Safety in the Workplace. Upon successful completion of all modules, MSSC Certification is awarded to students who pass the Safety and Quality Practices & measurement production modules. The Manufacturing Skill Standards Council (MSSC) is an industry-led, training, assessment and certification system focused on the core skills and knowledge needed by the nation's front-line production and material handling workers.

NURSE AIDE – 1 credit (one semester course)
Open to students in grade 12

The Nurse Aide program provides the opportunity to acquire classroom and on-the-job training as a nurse aide. The Nurse Aide program includes a blending of classroom instruction at HACC and clinical experience. Upon successful completion of the program, students are eligible to take the National Nurse Aide Assessment Program (NNAAP) Competency Exam and be enrolled on the Pennsylvania Nurse Aide Registry, which is required to work as a nurse aide in the long-term care industry. During the training, students learn numerous skills, including taking and recording the patient's blood pressure, temperature, pulse rate, and respirations; assisting with the activities of daily living, including bathing and hygiene, exercise; applying safe and correct techniques to assist patients with moving, walking, and positioning; recording vital information on appropriate medical forms and bedside charts, and responding properly to emergencies. Students must have the ability to communicate with older adults, work with individuals who are challenged, work with dying individuals and their families, and work with a high level of patience.

PATIENT CARE CONCEPTS – 2 credits (one semester course - offered both Fall and Spring semesters)
Open to students in grade 12

This program is designed to assist students who are asking questions about where they fit in the future of patient care. Perhaps, they have heard that the education required to enter a career in patient care is demanding and they are not sure what is involved with patient care. This program will focus on providing a foundation to assist students in answering the following questions: Do I have what it takes to be successful in a health career educational program? What does it mean to be a professional? Do I have what it takes to be the person my patients will expect me to be? What are some things I can do now to give me a "head start" into a career in patient care? Together the class will discuss and learn about the foundational concepts of patient care: Accountability, Assessment, Caring, Collaboration, Communication, Critical Thinking, Culture, Ethics and Legal Issues, Family, Grief and Loss, Health/Wellness/Illness, and Professional Behaviors. In the exploration of the concept of communication, students will learn basic medical terminology. The exploration of the concept of Health, Wellness and Illness, will allow for CPR, First Aid and AED (Automatic Electronic Defibrillation) training that will conclude with earned certification.

YORK COUNTY SCHOOL OF TECHNOLOGY
ELECTIVE TECHNICAL COURSES

Flex Block Courses

York County School of Technology will offer elective "Flex Block Courses" to eleventh and twelfth grade students at the York County School of Technology (YCST). Courses will run daily from 1:30 – 3:00 each day unless otherwise indicated. Transportation to and from the YCST will be the responsibility of the individual student. The flex block courses are intended to provide advanced training and/or industry validated certification. Students who enroll in flex block or any of the part-time courses will follow all YCST school rules and regulations. Please see your counselor for the most updated course information.

ENGLISH

ENGLISH 9 - 1 credit
This course 1) leads you farther into the world of composition, 2) invites you to explore new worlds via literature, 3) provides you with opportunities to enhance your oral communication skills, 4) surrounds you with vocabulary, 5) extends your understanding and application of grammar, usage, mechanics, etc., and 6) introduces you to basic research skills. Students must consider their abilities and aspirations when selecting a level of English 9.

Choose one of the following levels.

ENGLISH 9 - HONORS
Prerequisite: Must qualify under the requirements for Honors/Advanced Placement classes as specified on page 4 of this Course Selection Guide.

This course is for the freshman who hopes to pursue English courses in the Honors program. Just as in College Preparatory, this course is designed for those students who plan to attend college in the future. This course requires the student to possess strong English skills and presents a very rigorous approach to writing, reading and vocabulary. **During the summer prior to taking the course, students must complete a summer reading assignment. Students who fail to complete the summer reading assignment by the required date will be dropped from the course.**

ENGLISH 9 – COLLEGE PREPARATORY
This course is for the student who is planning to attend college after high school. A stronger emphasis on writing, reading, and vocabulary is stressed in this course to begin the college preparation process. This course requires a strong background in English.

ENGLISH 9 – CAREER/TECHNICAL
This course is for the student who is either planning to attend a technical school or is going directly into employment after high school. Fundamental skills in writing, reading, and vocabulary will be developed.

ENGLISH 10 - 1 credit
English 10 offers a comprehensive program of study in punctuation, composition, vocabulary, and literature. Units of research and public speaking complement the program. Students have opportunities to develop necessary skills for the more specialized reading and critical thinking required of them in their junior and senior years. Students must consider their abilities and aspirations when selecting a level of English 10. **The Literature Keystone Exam will be taken at the conclusion of the 10th grade English class. Students who are unsuccessful in passing the Literature Keystone Exam may be assigned to a Keystone remediation class.**

Choose one of the following levels.

ENGLISH 10 - HONORS
Prerequisite: Must qualify under the requirements for Honors/Advanced Placement classes as specified on page 4 of this Course Selection Guide.

Are you looking for the ultimate language challenge during your sophomore year? Then, select honors English as your key to a world filled with ancient and modern masters of tragedy and wit. Test and sharpen your abilities through expository, narrative, and descriptive writing. Be prepared for an intensive vocabulary study. Finally, develop your skills of literary analysis. This course is designed for students who plan to attend college after high school and who are qualified for a more challenging course. **During the summer prior to taking the course, students must complete a summer reading assignment. Students who fail to complete the summer reading assignment by the required date will be dropped from the course.**

ENGLISH 10 – COLLEGE PREPARATORY

This course is for the academic student who is planning to attend college after high school. It provides a background of literature and vocabulary helpful to the college-bound student. It familiarizes students with research techniques and improves organizational skills in composition.

ENGLISH 10 – CAREER/TECHNICAL

Career/Technical English 10 fulfills the requirements of the study of the language. It includes review of units of grammar, short writing assignments, vocabulary study, and selected literature. It is designed for the student who is planning to attend a technical school or is going directly into employment after high school.

ENGLISH 11 - 1 credit

English 11 continues the comprehensive program of study in composition, vocabulary and literature. Units of research and public speaking complement the program. Students must consider their abilities and aspirations when selecting a level of English 11.

Choose one of the following levels.

ENGLISH 11 - HONORS

Prerequisite: Must qualify under the requirements for Honors/Advanced Placement classes as specified on page 4 of this Course Selection Guide.

English 11 Honors presents a heavy array of literature, vocabulary, and writing experiences which require students to stretch their thinking skills. Students are asked to read and respond to literature at a level they will not yet have experienced. This course is designed for students who plan to attend college after high school and who are qualified for a more challenging course. **During the summer prior to taking the course, students must complete a summer reading assignment. Students who fail to complete the summer reading assignment by the required date will be dropped from the course.**

ENGLISH 11 – COLLEGE PREPARATORY

This course provides students the opportunity to develop the English skills they will need in a college setting. Reasonably strong writing and literature analysis skills are required.

ENGLISH 11 – CAREER/TECHNICAL

Career/Technical English 11 presents students with a course to continue their development of writing, reading, vocabulary, and analysis skills. It is designed for the

student who is planning to attend a technical school or is going directly into employment after high school.

ENGLISH 12 - 1 credit
English 12 continues the study of literature and composition. The completion of a research paper is a part of every level. Students must consider their abilities and aspirations when selecting a level of English 12.

Choose one of the following levels.

ENGLISH – ADVANCED PLACEMENT
Prerequisite: Must qualify under the requirements for Honors/Advanced Placement classes as specified on page 4 of this Course Selection Guide.

This is a course based on a comprehensive sampling of English language literature. Designed to give students extensive experience in close reading, precise thinking, and logical/analytical writing, it is a college-level course demanding much time and effort. **During the summer prior to taking the course, students must complete a summer reading assignment. Students who fail to complete the summer reading assignment by the required date will be dropped from the course.**

ENGLISH 12 - HONORS
Prerequisite: Must qualify under the requirements for Honors/Advanced Placement classes as specified on page 4 of this Course Selection Guide.

Seniors who take this course will read, evaluate and interpret several plays, novels, poems and short works of fiction from several different cultures. Students will learn advanced methods in rhetoric and composition and will develop sophisticated methods of communication. Students will write in all the modes they will be expected to use at the collegiate level including a research paper. **During the summer prior to taking the course, students must complete a summer reading assignment. Students who fail to complete the summer reading assignment by the required date will be dropped from the course.**

ENGLISH 12 – COLLEGE PREPARATORY
Covering a variety of literature selections and providing an opportunity for students to improve their thinking and writing skills, this course is designed for the student planning to attend college after high school. Students will write in all the modes they will be expected to use at the collegiate level including a research paper.

ENGLISH 12 – CAREER/TECHNICAL
This course allows students to further develop their fundamental English skills. It is designed for the student who is planning to attend a technical school or is going directly into employment after high school. Students in this course will complete literature and composition study, and will complete a research paper.

ENGLISH LANGUAGE – 1 credit
Open to students by Administrative placement only

This course is for students whose dominant language is something other than English. The focus is on reading comprehension, vocabulary acquisition, and developing listening, speaking and writing skills. There is a progression of language levels beginning with "newcomer," as determined by annual statewide assessment criteria.

ENGLISH ELECTIVES

The elective courses offered by the English department are in two categories: those offered every year and those offered every other year. Please take note of when a course is offered so that you may better plan for your high school classes.

ANNUAL ELECTIVES (offered every year)

COMMUNICATION - 1 credit
Open to students in grades 11 and 12

Students in this class will explore all aspects of human communication. Students will develop an understanding of contemporary theories in the areas of intrapersonal, interpersonal, small group, organizational, and mass-communication. Students will also practice communication skills that will help them in any future academic environment. Students will learn the process of writing, practicing, and delivering formal presentations, but will also learn how to apply the theory and practice of human communication in their daily lives.

CREATIVE WRITING – 1 credit
Open to students in grades 10, 11, and 12

Using a workshop approach to the writing process, students will develop skills and techniques in creative writing. In order to stimulate a creative and critical approach to writing, students will read work from several genres and a variety of authors, poets and playwrights. Students will be required to maintain a portfolio of their work, and will be expected to work through all stages of the writing process. Students will write poetry, short fiction, drama, script writing, and several experimental essays and other formats which question and challenge the nature of writing. Students will also be required to develop proficiency in the criticism of written work with an emphasis on self-reflection.

CURRENT TOPICS IN READING I – 1 credit
Open to students by Administrative placement only

This remedial class will utilize the READ180 curriculum, a balanced reading intervention approach which combines direct instruction, small group instruction, modeled and/or independent reading to serve students who are reading below grade level. The READ180 curriculum serves a maximum of fifteen students per class.

CURRENT TOPICS IN READING II – 1 credit
Open to students by Administrative placement only

This remedial class will continue to utilize the READ180 curriculum, a balanced reading intervention approach which combines direct instruction, small group instruction, modeled and/or independent reading to serve students who are reading below grade level. The READ180 curriculum serves a maximum of fifteen students per class.

FOUNDATIONS OF READING I – 1 credit
Open to students by Administrative placement only

This remedial class will utilize the System 44 curriculum, a foundational reading and phonics-based intervention that combines direct instruction, small group instruction, and modeled and/or independent reading to serve students who are reading below grade level. The System 44 curriculum serves a maximum of ten students per class.

FOUNDATIONS OF READING II – 1 credit
Open to students by Administrative placement only

This remedial class will continue to utilize the System 44 curriculum, a foundational reading and phonics-based intervention that combines direct instruction, small group instruction, and modeled and/or independent reading to serve students who are reading below grade level. The System 44 curriculum serves a maximum of ten students per class.

JOURNALISM - 1 credit
Open to students in grades 10, 11, and 12

Want to explore the world of a newspaper reporter? This course examines the four basic styles of news writing: news, editorial, sports, and feature. Students will also learn the fundamentals of page design. The course includes an opportunity for students to develop their skills with in-class newspaper production. Serious inquiries only, please.

THEATER ARTS - 1 credit
Open to students in grades 9, 10, 11, and 12.

This course introduces all areas of theater, stressing acting, make-up, and costuming. Students will have the opportunity to explore the art of improvisation, to present memorized scenes which will be videotaped, to develop a character role, to practice mime, and to participate in various scripts.

BIENNIAL ELECTIVES (offered every other year)

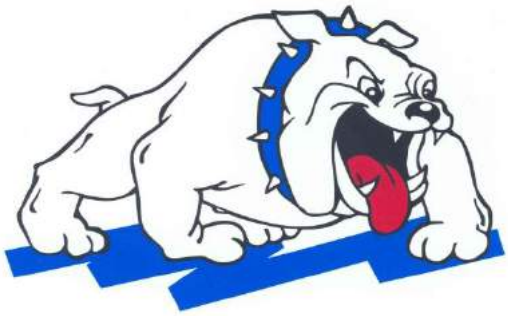
COMPOSITION - 1 credit
Open to students in grades 10, 11, and 12

Those students wanting to improve their writing skills for college should consider this elective. Structure and organizational principles will be examined. Students will deal with expository, descriptive, narrative,

and process types of writing. Mechanical areas will also be explored. Only those students serious about writing should apply. This is not a creative composition class. This course will be offered during the 2016-2017 school year.

SHAKESPEARE and the CLASSICS - 1 credit
Open to students in grades 11 and 12

This course will survey excellent writing by excellent authors including an extensive look at the work of William Shakespeare. Reading selections were made from lists of suggested works for college-bound students. The plays, short stories, novels, poetry, and essays will be analyzed and critiqued through class discussions and written assignments. This is a great class for anyone interested in reading great literature. This course is also an excellent selection for any student considering a college major within the liberal arts. Melville, Twain, Poe, Swift, Shelly, Hugo, Frost, Dostoevsky, Hemingway, Joyce, Dickens, Forster, Keats, Emerson, Stowe, Burns, Browning, Yeats, Dickinson, Byron, Stevens, Whitman. If you don't know who these people are before you take this course, you certainly will by the time you finish it. Also, by looking at a broad section of Shakespeare's plays, including comedies, histories, and tragedies, you will be able to analyze his uses of these forms as well as the particular plots and themes of the plays themselves. This course will next be offered during the 2017-2018 school year.



FAMILY AND CONSUMER SCIENCES

FOODS I – INTRODUCTION TO CULINARY - 1 credit
Open to students in grades 9, 10, 11, and 12

This is an introductory course of basic principles of culinary, including: an extensive study of kitchen and food safety, sanitation, knife skills, measuring, kitchen math, and work skills ethics. These skills will be practiced in lab situations.

REGIONAL COOKING – 1 credit
Prerequisite: 80% or above in Foods I - Introduction to Culinary
Open to students in grades 10, 11, and 12

This class builds upon the knowledge and skills learned in Foods I – Introduction to Culinary through the study of regional and multi-cultural cooking along with advanced baking.

INTRODUCTION TO RESTAURANT MANAGEMENT - 1 credit
Prerequisite: 80% or above in Foods I - Introduction to Culinary
Open to students in grades 10, 11, and 12

The students in this advanced cooking class will learn how to turn an interest in cooking into a profitable business. Students will work cooperatively to select products; calculate costs; market, produce, and sell the products; and then realize the profit. Students will also learn to convert recipes that serve a small number into recipes that will serve a crowd.

HUMAN DEVELOPMENT I - 1 credit
Open to students in grades 10, 11, and 12

Take a journey through the lifespan of human development from birth to death, with a strong focus on childhood. Learn about physical, emotional, social and intellectual development; the importance of play; guidance and other factors affecting growth and development. Students will observe children in a variety of settings.

HUMAN DEVELOPMENT II- 1 credit
Prerequisite: 80% or above in Human Development I
Open to students in grades 11 and 12

This course is a comprehensive extension of Human Development I. Students will explore in-depth various topics including the human brain, various disabilities and disorders, the learning environment, abuse, stress, grief, and illnesses. Many visitations to local preschools, specialty schools, and health care facilities will take place for hands-on engagement and direct observations. Students may need to provide their own transportation to some locations.

INDEPENDENT LIVING - .5 credit
Required for students in grade 12

This course will introduce seniors to the responsibilities and rewards of parenthood and adult living. Readiness for parenthood and complex parenting issues will be investigated and discussed. Students will also learn skills in budgeting, safety, health and independent living. Many current societal issues will be explored. **Twelfth Grade Physical Education and Independent Living will be paired for 1 credit.**

HEALTH, PHYSICAL EDUCATION AND SAFETY EDUCATION

HEALTH 9 - .5 credit
Required for students in grade 9

Ninth grade health will include units on mental and emotional health, including self-esteem, body image, decision-making, goal setting, stress management, and substance use and abuse. Diet, nutrition and healthy lifestyles will be covered, as well as the body systems. Human sexuality and disease prevention will also be discussed. **Ninth Grade Physical Education and Ninth Grade Health will be paired for 1 credit.**

HEALTH 11 - .5 credit
Required for students in grade 11

Health for juniors is a course focusing on the concepts of health and healthy living. Topics covered include growth and development (fetus to adulthood), body systems, nutrition, drug issues, health problems, health products and services, consumer choices, media effects, and environmental and community health. **Eleventh Grade Physical Education and Eleventh Grade Health will be paired for 1 credit.**

SAFETY EDUCATION - .5 credit
Required for students in grade 10

The course is designed to give students exposure to all areas of safety, including home safety, work safety, public safety, first aid, and vehicle safety. The goal of this course is not only to provide the student with accident and injury prevention and intervention skills, but also for the student to understand that sometimes actions as teenagers carry serious consequences. Safety Education also develops attitudes, appreciations, and understandings essential to safe and responsible living. **Tenth Grade Physical Education and Safety Education will be paired for 1 credit.**

PHYSICAL EDUCATION - .5 credit (for each grade level)

The purpose of the Physical Education program is to teach skills, knowledge, attitudes and behaviors that lead to regular participation in fitness for one's lifetime.

PHYSICAL EDUCATION 9
Required for students in grades 9

This course is a combination of sport and fitness education. The focus for the sport education portion will be comprised of team sports, individual/partner sports, and recreational sports. The fitness education focus will be placed on heart rate training, fat loss, PNF/static stretching, and speed, agility, reaction time, and plyometric training.

PHYSICAL EDUCATION 10

Prerequisite: Physical Education 9
Required for students in grades 10

This course is combination of physical activities and fitness development. The physical activities component will be a combination of team, recreational, and individual/partner games. The areas of fitness development will focus on energy systems, the HIIT principle, dynamic flexibility, and the periodization method strength training.

PHYSICAL EDUCATION 11

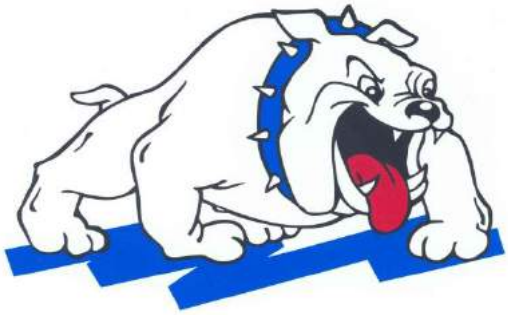
Prerequisite: Physical Education 10
Required for students in grade 11

This course is a combination of team games/individual sport and fitness development. A variety of team, individual, and recreational games will be incorporated. The fitness component will focus on cardio conditioning with the focal point being VO2 Max. The metabolic conditioning spotlights recovery and oxygen consumption. Non-linear periodization will target the advanced strength training component.

PHYSICAL EDUCATION 12

Prerequisite: Physical Education 11
Required for students in grade 12

This course is a combination of lifetime sports and fitness education. The lifetime sports portion will provide opportunities in our community to develop an active lifestyle. The fitness education focus will be on preparation to run/walk a Bulldog 5K, a combine event, and a fitness Olympic type event.



MATHEMATICS

ALGEBRA IA - 1 elective credit (not considered 1 of the 4 required math credits)
Open to students in grades 9 and 10

This course strengthens the fundamental concepts developed in pre-algebra. Algebra concepts are based on memorable activities or concrete models. Course concepts include: problem solving; variables and proportions; graphs and equations; multiple representations; multiplication and proportions; systems of equations; linear relationships; and quadratics. Each chapter reviews the concepts developed previously and all chapters contain a culminating problem to tie together the algebra concepts learned. All students must successfully complete the Algebra I Keystone Exam which will be given at the conclusion of the Algebra IB course.

ALGEBRA IB – 1 credit
Open to students in grades 9 and 10

This course strengthens the fundamental concepts developed in Algebra IA. Algebra concepts are based on memorable activities or concrete models. Course concepts include: quadratics; inequalities; simplifying and solving; functions and relations; algebraic extensions; investigations and functions; sequences and equivalence; and exponential functions**.** Each chapter reviews the concepts developed previously and all chapters contain a culminating problem to tie together the algebra concepts learned. **All students must successfully complete the Algebra I Keystone Exam which will be given at the conclusion of this course. Students who are unsuccessful in passing the Algebra I Keystone Exam may be assigned to a Keystone remediation class.**

HONORS ALGEBRA II - 1 credit
Prerequisite: Honors Algebra I and Honors Geometry or Geometry. Must qualify under the requirements for Honors/Advanced Placement classes as specified on page 4 of this Course Selection Guide.
Open to students in grades 9, 10, and 11

This course is for those students who were advised by their teacher to continue in this level of math and is designed to extend concepts for the honors level student. Algebra concepts are based on memorable activities or concrete models. Course concepts include: investigation and functions; sequences and exponential functions; transformations of parent graphs; solving and intersections; inverses and logarithms; cyclic functions; polynomials; conic sections; analytic trigonometry; probability and counting. Each chapter reviews the concepts developed previously and most chapters contain a culminating problem to tie together and extend the algebra concepts learned.

ALGEBRA II - 1 credit
Prerequisite: Algebra IB and Geometry
Open to students in grades 9, 10, 11, and 12

This course strengthens the fundamental concepts developed in Algebra I. Algebra concepts are based on memorable activities or concrete models. Course concepts include: investigation and functions; sequences and equivalence; exponential functions; transformations of parent graphs; solving and

intersections; inverses and logarithms; 3-D graphing and logarithms; and trigonometric functions. Each chapter reviews the concepts developed previously and all chapters contain a culminating problem to tie together the algebra concepts learned.

ALGEBRA III - 1 credit
Prerequisite: Algebra II
Open to students in grades 10, 11, and 12

This course strengthens the fundamental concepts developed in Algebra II and Geometry. Algebra concepts are based on memorable activities or concrete models. Course concepts include: review of trigonometric functions; polynomials; conic sections; analytic trigonometry; probability and counting. Each chapter reviews the concepts developed previously and all chapters contain a culminating problem to tie together the algebra concepts learned.

HONORS GEOMETRY - 1 credit
Prerequisite: Honors Algebra I. Must qualify under the requirements for Honors/Advanced Placement classes as specified on page 4 of this Course Selection Guide.
Open to students in grades 9 and 10

This course is for those students who were advised by their teacher to continue in this level of math and is designed to extend concepts for the Honors level student. The course is structured around problems and investigations that build spatial visualization skills, conceptual understanding of geometry topics, and an awareness of connections between different ideas. Course concepts include: shapes and transformations; angles and measurement; proofs and similarity; trigonometry and probability; triangles; congruent triangles; proofs and quadrilaterals; polygons and circles; and solids and constructions. Each chapter reviews the concepts developed previously. Students are encouraged to investigate, conjecture, and then prove to develop their reasoning skills.

GEOMETRY - 1 credit
Prerequisite: Algebra I.
Open to students in grades 9, 10, 11, and 12

This course is structured around problems and investigations that build spatial visualization skills and conceptual understanding of geometry topics. Course concepts include: shapes and transformations; angles and measurement; proofs and similarity; trigonometry and probability; triangles; proofs and quadrilaterals; polygons and circles; and solids and constructions. Each chapter reviews the concepts previously developed.

PRE-CALCULUS - 1 credit
Prerequisite: Honors Algebra II or Algebra III. Must qualify under the requirements for Honors/Advanced Placement classes as specified on page 4 of this Course Selection Guide.
Open to students in grades 10, 11, and 12

This course is intended for those students advised by their teacher to continue in this level of math. Course concepts include: introduction to models; area between curves; introduction to logarithms;

sinusoidal functions; algebra for college math courses; modeling and trigonometry; modeling and statistical analysis; vectors and more trigonometry; and limits. The use of mathematical models is a reoccurring theme throughout the course. Concepts of Calculus are investigated with considerable depth. Earlier concepts are reviewed and practiced throughout the course.

CALCULUS - 1 credit
Prerequisite: Pre-Calculus. Must qualify under the requirements for Honors/Advanced Placement classes as specified on page 4 of this Course Selection Guide.
Open to students in grades 10, 11, and 12

Calculus is an academically rigorous course, but is not designed to prepare for the AP exam. Course concepts include: functions; derivatives and their uses; application of derivatives; exponential and logarithmic functions; integration and its applications; integration techniques and experience with the application of calculus to business, economics, and other fields.

ADVANCED PLACEMENT CALCULUS I (AB) - 1 credit
Prerequisite: Pre-Calculus. Must qualify under the requirements for Honors/Advanced Placement classes as specified on page 4 of this Course Selection Guide.
Open to students in grades 11 and 12

This course prepares the students to take the Advanced Placement Calculus AB exam given in the spring. Course content includes: advanced concepts from Calculus; areas by Riemann sums and definite integrals; integrals by anti-differentiation and by substitution and First Fundamental Theorem of Calculus to find definite integrals; first-order separable differential equations; work with retired AP tests to prepare for the actual test; absolute extrema; applications of integration to area, volume, rectilinear motion, business, social sciences, etc.; Rolle's Theorem; Intermediate-Value Theorem; and Mean-Value Theorem. It is recommended students have their own graphing calculator (83, 84, or 89) for use at home. For in class use, appropriate graphing calculators will be available for students.

ADVANCED PLACEMENT CALCULUS II (BC) – 1 credit
Prerequisite: Advanced Placement Calculus I (AB). Must qualify under the requirements for Honors/Advanced Placement classes as specified on page 4 of this Course Selection Guide.
Open to students in grades 11 and 12

This course continues the work done in Advanced Placement Calculus I (AB) and prepares the students to take the Advanced Placement Calculus BC exam given in the spring. Course content includes: advanced topics from AP Calculus I (AB); graphs, derivatives, integrals, and application of polar, vectors, and parametric functions; first-order non-separable differential equations; integration by parts and simple partial fractions; improper integrals; advanced applications of integration including arc length and logistic curves; polynomial approximations and series; and work with retired Advanced Placement tests to prepare for the actual BC exam. It is recommended students have their own graphing calculator (83, 84, or 89) for use at home. For in class use, appropriate graphing calculators will be available for students.

PROBABILITY AND STATISTICS - 1 credit
Prerequisite: Algebra II
Open to students in grades 10, 11, and 12

It is recommended that all students take this course prior to their senior year. This course includes an introduction to the concepts of probability and statistics. Course content includes: design, conduct and experiment; random sampling; graphic results; technology to organize and analyze data; validity of sampling in a study; predictions of outcomes; relationship of data using correlations and regression; calculate probability and odds; perform an experiment and generalize its results to an entire population; draw and justify a conclusion regarding validity of probability or statistical argument.

ADVANCED PLACEMENT STATISTICS – 1 credit
Prerequisite: Pre-Calculus. Must qualify under the requirements for Honors/Advanced Placement classes as specified on page 4 of this Course Selection Guide.
Open to students in grades 11 and 12

This course prepares the students to take the Advanced Placement Statistics test given in the spring. It is designed to have students analyze data with calculators and computers, conduct classroom experiments, carry out individual and group projects which foster important classroom discussion pertaining to topics such as methodology and inferences, and perform simulations involving probabilistic concepts. The AP Statistics students will be active, engaged learners. Course content includes: basic statistics; describing, exploring, and comparing data; probability; probability distributions; normal probability distributions; estimates and sample sizes; hypothesis testing; inferences from two samples; correlation and regression, multinomial experiments and contingency tables; analysis of variance; statistical process control; nonparametric statistics; and projects, procedures, and perspectives. It is recommended students have their own graphing calculator (83, 84, or 89) for use at home. For in class use, appropriate graphing calculators will be available for students. Students receive a list of formulas and tables from a variety of sources that are available to use throughout the year for individual assignments.

CRITICAL THINKING – 1 credit
Open to students in grade 11 by Administrative placement only

Junior students who have not demonstrated mastery in the Pennsylvania Core may be assigned to this course. Students may not select this course unless a math teacher or guidance counselor gives permission. Mastery of the Academic Standards will be evidenced by the total number of earned math credits, scores on previous standardized tests, scores on benchmark assessments, and results of the Keystone Algebra I Exam.

This course will emphasize the use of mathematics to solve problems and will present situations where students develop critical thinking skills. Course content includes: numbers and operations, measurement, geometry, algebraic concepts, data analysis, probability, functions and relations, discrete mathematics, trigonometry, and open ended questions

MUSIC

BAND - 1 credit - **1 full year**
Open to students in grades 9, 10, 11, and 12

Music from the various periods of musical history is studied and performed in concerts and recitals. Through sectional and full band rehearsal, stress is placed on the technical, analytical, stylistic, and musical aspects of band and ensemble performance. All students are required to do home practice on selected band music. Various evening and weekend performances will be involved. Students desiring membership in the band for the first time should contact the instructor before selecting this course.

Band experience is also available in the following co-curricular organizations (no academic credit earned):

Marching Band
Woodwind, Brass and Percussion Ensembles
Jazz Ensemble (also available to bass, guitar, and piano students by audition)
Marching Band Front

See the Band Director for more information on these organizations.

CHOIR - 1 credit - **1 full year**
Open to students in grades 9, 10, 11, and 12

High School Choir is open to students who are interested in singing. The purpose of the Choir is to provide the student an opportunity for growth through the study and performance of choral music from the various periods of music history. In addition, developing an understanding of basic music terms and symbols, as well as proper vocal techniques, tone production, choral diction, choreography, and stage presence are emphasized. Various evening and weekend performances will be involved.

From the High School Choir, the following co-curricular select vocal group is available by audition (no academic credit earned):

Legacy - Note: It is recommended that members be participating members of choir.

Band and Choir are year-long courses. The Physical Education/Health/Safety Education/or Independent Living requirement will be paired with Band or Choir.

Students taking both Band and Choir will pair them together for the full year.

BASIC GUITAR – 1 credit
Open to students in grades 9, 10, 11, and 12

This course offers beginning instruction for students who have no previous experience with guitar. The class will introduce students to basic guitar techniques, musical notation and rhythm, and the performance of melodies and chords in a variety of styles including folk, rock, classical, and country. No previous musical training is necessary and instruments are provided. This course is not recommended for students who have previous guitar experience. Students with any previous guitar experience must see the instructor before selecting this course.

BASIC PIANO - 1 credit
Open to students in Grades 9, 10, 11, and 12

Basic Piano is open to all students and is designed to teach basic piano keyboard skills to beginning players who have no previous experience with piano. Students will work on note reading, chords, rhythms, and technique. Students will work in a piano lab setting, with much of the work being done independently. Access to a piano outside of class is not necessary. This course is not recommended for students who have previous piano experience. Students with any previous piano experience must see the instructor before selecting this course.

INTRODUCTION TO MUSIC TECHNOLOGY – 1 credit
Open to students in grades 9, 10, 11, and 12

The course allows students the opportunity to explore the many uses and possibilities of technology in music. Included will be the application of computers and electronic keyboards/synthesizers. Students will be able to discover and access a variety of sounds, work on creating original compositions, use computers to print scores and learn sequencing techniques. There are no prerequisites for the course but a solid understanding of beat and meter is strongly encouraged and the ability to read music will be helpful, but not essential.

MUSIC THEORY - 1 credit
Prerequisites: Experience in band or choir, or with a guitar or keyboard instrument.
Open to students in grades 10, 11, and 12

Music Theory class provides an introduction to the fundamentals of music necessary for arranging, composing and analyzing music of all styles. The course will cover the fundamentals of music notation, melody, chords, harmony, vocal and instrumental arranging, ear training and original compositions which will be performed. The course should be most relevant for students performing in an instrumental or vocal group, those studying voice, keyboards or any instrument and have an interest in composing and the structure of music.

POPULAR MUSIC – 1 credit
Open to students in grades 9, 10, 11, and 12

Major areas of concentration for this course will be Rock Music (1950 to present) and Jazz Music (1900 to present). The course will include listening, analysis, research, and discussion, including current topics in music. Student presentations on jazz and rock groups and solo performers are also included.

SCIENCE

NOTE: All students must successfully complete a biology, chemistry, and physics class.

All students (and their parents) should carefully consider the course level they select.

- Honors courses are designed for those students who plan on majoring in science, engineering, math, or medical related fields while in college. These courses will move at an accelerated pace, thus covering more information and requiring more independent work.
- College Prep courses are designed for those students who plan on enrolling in a non-science related post-high school college program OR entering a science or technology related 2 year technical program.
- Applied courses are designed for students of all abilities who are planning to enter a technical school in a non-science related field or are going directly into employment following high school.

Several science courses have prerequisites; please read the descriptions carefully. Courses listing math classes as a prerequisite rely heavily on student use of mathematical problem solving. Students who are unsure of their choice of science courses should consult a science teacher or a guidance counselor.

Students who select the A*pplied* level of science courses will take Applied Physics in 9th grade, Applied Chemistry in 10th grade and Applied Biology in 11th grade. College Prep and Honors levels will take Biology, then Chemistry, followed by Physics.

BIOLOGY I (Honors, College Prep or Applied) - 1 credit
Choose one of the following levels.

The Biology Keystone Exam will be taken at the conclusion of the Biology I class. Students who are unsuccessful in passing the Biology Keystone Exam may be assigned to a Keystone remediation class.

HONORS BIOLOGY I

Open to students in grade 9
Prerequisite: Must qualify under the requirements for Honors/Advanced Placement classes as specified on page 4 of this Course Selection Guide.

This course will explore how scientists analyze their work, how the structures of life are related to the functions of life, how life uses chemistry, how the inheritance of genetic information can be predicted, and how evolution affects life. The material in this course is similar to that of College Prep Biology I, but topics will be discussed in more detail and at an accelerated pace. Students will be given the opportunity to expand their scientific knowledge by completing assignments independently and by working in small groups. Laboratory work is included in this course. **During the summer prior to taking the course, students must complete a summer assignment. Students who fail to complete the assignment by the required date will be dropped from the course.**

COLLEGE PREP BIOLOGY I

Open to students in grade 9

This course is designed to provide a background in the cell and its major functions, processes and

environmental relationships from the level of the biological compounds to the level of genetics, and the relationship between cells and microorganisms. Areas of study include ecology, biochemistry, cell biology, and genetics. Laboratory work is included in this course.

APPLIED BIOLOGY I

Open to students in grade 11

The emphasis in this course will be on the fundamental principles of biology; including ecology, biochemistry, cell biology, and genetics. Laboratory work is included in this course.

CHEMISTRY I (Honors, College Prep, or Applied) – 1 credit

Open to students in grade 10
Choose one of the following levels.

HONORS CHEMISTRY I

Prerequisite: Algebra II. Must qualify under the requirements for Honors/Advanced Placement classes as specified on page 4 of this Course Selection Guide.

Chemistry is the study of the composition, structure, properties and reactions of matter. The material in this course is similar to that of College Prep Chemistry I, but topics will be discussed in more detail, with more advanced mathematics, and at an accelerated pace. Emphasis is placed on laboratory work so that students correlate chemistry to the scientific processes of experimentation, observation, the formulation of laws and the development of theories. Lab work requires students to use mathematical skills to solve problems and analyze results. At least a 90% in Algebra II is recommended in order to be successful in this class. **During the summer prior to taking the course, students must complete a summer assignment. Students who fail to complete the assignment by the required date will be dropped from the course.**

COLLEGE PREP CHEMISTRY I

Prerequisite: 80% in Algebra II

Chemistry is the study of the composition, structure, properties, and reactions of matter. Emphasis is placed on laboratory work so that students correlate chemistry to the scientific processes of experimentation, observation, the formulation of laws and the development of theories. Course content and lab work requires students to use mathematical skills to solve problems and analyze results.

APPLIED CHEMISTRY I

Applied Chemistry will use a thematic approach to allow students to learn chemistry as it relates the real world around them. Experiments and inquiry activities are used to introduce concepts such as the properties of matter, chemical and physical changes, scientific models and theories, and the chemistry of the environment. End of unit projects allow for students to creatively show their understanding of the material.

PHYSICS I (AP, Honors, College Prep, or Applied) – 1 credit
Choose one of the following levels.

ADVANCED PLACEMENT PHYSICS I

Open to students in grade 11
Prerequisite: Algebra II or higher math. Must qualify under the requirements for Honors/Advanced Placement classes as specified on page 4 of this Course Selection Guide.

AP Physics I is the equivalent to a first-semester college course in algebra-based physics. The course covers Newtonian mechanics (including rotational dynamics and angular momentum); work, energy, and power; and mechanical waves and sound. It will also introduce electric circuits. *This course may run concurrently with Honors Physics I in a blended setting requiring students to complete additional online modules to prepare for the AP test*. **During the summer prior to taking the course, students must complete a summer assignment. Students who fail to complete the assignment by the required date will be dropped from the course.**

HONORS PHYSICS I

Open to students in grade 11
Prerequisite: Algebra II or higher math. Must qualify under the requirements for Honors/Advanced Placement classes as specified on page 4 of this Course Selection Guide.

Physics is a hands-on study of the physical world around us. Those interested in careers in science, engineering, computer technology, or medicine should consider this course. You will analyze concepts and applications of motion, force, energy**, momentum, and fluids.** This course is highly technology and laboratory based and uses science and advanced math to develop problem solving and teamwork skills. Several design projects give creative opportunities to explore physics concepts. **During the summer prior to taking the course, students must complete a summer assignment. Students who fail to complete the assignment by the required date will be dropped from the course.**

COLLEGE PREP PHYSICS I

Open to students in grade 11
Prerequisite: Algebra II or higher math.

Physics is a hands-on study of the physical world around us. In this course, students will analyze concepts and applications of motion, force, energy, electricity, and waves. Science and math are used to develop problem solving and teamwork skills. A design project gives creative opportunities to explore physics concepts. A minimum of 80% in Algebra II or a higher math class is recommended in order to be successful in this class.

APPLIED PHYSICS I

Open to students in grade 9

Applied Physics is a general study of the physics that affects our daily lives. In this course students will use lab based inquiry activities and basic algebraic computations to study ideas of mechanics, sound, light, electricity, and magnetism as they relate to everyday activities such as transportation, sports, entertainment, and amusement parks.

SCIENCE ELECTIVES

ANNUAL ELECTIVES (offered every year)

ADVANCED PLACEMENT CHEMISTRY - 1 credit
Prerequisite: Honors Chemistry I (80% minimum)
Open to students in grades 11 and 12

This course is recommended for students planning further studies in either physical or biological sciences, including careers in the health sciences. Emphasis is placed on studies of chemical equilibria as it applies to various chemical systems. Strong mathematical skills are required since applicable problem solving is an integral part of the course. The laboratory work is devoted to qualitative (descriptive) and quantitative (numerical) analysis. The structure of matter, kinetic theory of gases, chemical kinetics, the basic concepts of thermodynamics, and introductory organic chemistry are topics in this advanced placement type course. **During the summer prior to taking the course, students must complete a summer assignment. Students who fail to complete the assignment by the required date will be dropped from the course.**

ADVANCED PLACEMENT PHYSICS II – 1 credit
Prerequisite: AP Physics I or Honors Physics I (80% minimum), Pre-Calculus
Open to students in grades 11 and 12

AP Physics II is the equivalent to a second-semester college course in algebra-based physics. The course covers fluid mechanics, thermodynamics, electricity and magnetism, optics, and atomic and nuclear physics. Emphasis is on conceptual understanding through a variety of lab work, as well as application through problem solving. This course is essential for students planning a career in science, technology, engineering, or medicine. **During the summer prior to taking the course, students must complete a summer assignment. Students who fail to complete the assignment by the required date will be dropped from the course.**

BIOLOGY II - 1 credit
Prerequisites: College Prep or Honors Biology I and Chemistry I (80% minimum)
Open to students in grades 11 and 12

This laboratory-based college-level course is suggested for those considering careers in biology or any of the allied health fields. Major areas of study include micro- and macro-biology with an in-depth survey of the six kingdoms of life. This class is fast paced and will require the student to work independently. Students will also be expected to think critically and expand their scientific knowledge through class discussion, labs, small group projects, and independent assignments.

HUMAN ANATOMY & PHYSIOLOGY – 1 credit
Prerequisite: College Prep or Honors Biology I (80% minimum)
Open to students in grades 10, 11, and 12

This college-level course is designed for students interested in pursuing a career in any of the health-related fields. A systematic approach to the human body will be taken and various organ systems will be covered. The anatomy of the system identifies and relates the individual part of the whole, the physiology

of the system provides an understanding of the function of the parts of the system, and the pathology of the system relates to a specific disorder to the abnormal functioning of the whole organism. Students will be engaged in numerous dissections and can expect lab practicals throughout the semester.

INTRODUCTION TO ENGINEERING TECHNOLOGY – 1 credit
Prerequisite: Physics and Honors Algebra II or Algebra III
Recommended: One Tech. Ed. class: Architectural Design & Drawing, Intro. to Drafting & Design, Materials Tech., or Wood Tech.
Open to students in grades 11 and 12

This course is designed for those students interested in pursuing a career in engineering technology or related fields. The course will prepare students for further education and a career in these fields by introducing them to three main engineering disciplines: mechanical, electrical, and civil. Students will be introduced to the principles and theories of the engineering process through a project-based curriculum where they will then apply these concepts. Approximately half of the course will be spent in a classroom setting focusing on the scientific principles necessary to design and troubleshoot the various projects, while the other half will be spent in a production lab applying the principles through construction of the project. Through this approach, students will better understand the academic concepts as well as the hands-on skills required to be successful in the technical disciplines. Both a Physics and a Technology Education teacher will team-teach this class. Students interested in entering a technical or engineering technology field are encouraged to take this course. Students may be required to pay for some materials required to complete the projects.

HONORS INTRODUCTION TO ENGINEERING – 1 credit
Prerequisite: Minimum of 80% in CP Physics or above and Honors Algebra II or Algebra III
Recommended: Pre-calculus and One Tech. Ed. class: Architectural Design & Drawing, Intro. to Drafting & Design, Materials Tech., or Wood Tech.
Open to students in grades 11 and 12

This course is designed for those students interested in pursuing a career in engineering or related fields. The course will prepare students for further education and a career in these fields by introducing them to three main engineering disciplines: mechanical, electrical, and civil. Students will be introduced to the principles and theories of the engineering process through a project-based curriculum where they will then apply these concepts. Approximately half of the course will be spent in a classroom setting focusing on the scientific principles necessary to design and troubleshoot the various projects, while the other half will be spent in a production lab applying the principles through construction of the project. Through this approach, students will better understand the academic concepts as well as the hands-on skills required to be successful in the engineering and technical disciplines. Both a Physics and a Technology Education teacher will team-teach this class. Students interested in entering a technical or engineering field are encouraged to take this course. Students may be required to pay for some materials required to complete the projects.

SCIENCE OF SPORT – 1 credit
Prerequisite: Completed any level of Biology I, Chemistry I, and Physics I
Open to students in grades 11 and 12

The world of sports is full of practical applications of the sciences learned during your time at West York.

If you want to know why chocolate milk is great after a workout or why Michael Phelps is the greatest swimmer of all time, this is the class for you. Students will apply concepts that include Fueling the body, Biomechanics, Enhancing Performance, Safety Equipment, and environmental impacts of facilities. Students will create a coaching manual based on the scientific principles that apply to their specific sport.

BIENNIAL ELECTIVES (offered every other year)

ENVIRONMENTAL BIOLOGY – 1 credit
Prerequisite: Any level of Biology I
Open to students in grades 10, 11, and 12

This course focuses on exploring and understanding the interactive web that connects all living organisms to one another and to our physical environment. Topics of study that will be taught in this course include: composition of the biosphere, ecology, biodiversity, and conservation. The course will involve laboratory investigations. This class is designed for those with an interest in the world around them. Environmental Biology will next be offered during the 2017-2018 school year.

THE LIVING WORLD – 1 credit
Prerequisite: Any level of Biology I
Open to students in grades 10, 11, and 12

This course is designed for students interested in discovering more about the living world around them. It is a continuation of Biology I and includes discussions on the kingdoms of life with an emphasis on the animal kingdom. Students will participate in class discussions, labs, dissections, small group projects, and independent assignments. Any student who enjoyed their Biology I class and desires more information will be welcomed into the LIVING WORLD! This course will be offered during the 2016-2017 school year.

SOCIAL STUDIES

HONORS AMERICAN CULTURES II - 1 credit
Prerequisite: Students must qualify under the requirements for Honors/Advanced Placement classes as specified on page 4 of this Course Selection Guide.
Open to students in grade 9

American Cultures II is a continuation of the eighth grade history course, American Cultures I. Students will review geography and then will examine the political, social, economic, and military aspects of the United States from 1920 to the present. Students will use a textbook, supplementary reading, cooperative learning activities, and a variety of audio and video materials. Individual and group research projects will be required. Writing will be emphasized and class participation is required. This honors level course will challenge students who work at a more rigorous pace. There will be emphasis on reading skills, writing skills, research, and class presentations. **During the summer prior to taking the course, students must complete the reading of a required book and the relevant assignments which accompany it. Any student who fails to complete the summer reading assignment by the required date will be dropped from the course.**

AMERICAN CULTURES II - 1 credit
Open to students in grade 9

American Cultures II is a continuation of the eighth grade history course, American Cultures I. Students will review geography and then will examine the political, social, economic, and military aspects of the United States from 1920 to the present. Students will use a textbook, supplementary reading, cooperative learning activities, and a variety of audio and video materials. Individual and group research projects will be required. Writing will be emphasized and class participation is required.

HONORS WORLD CULTURES – 1 credit
Prerequisite: Students must qualify under the requirements for Honors/Advanced Placement classes as specified on page 4 of this Course Selection Guide.
Open to students in grade 10

In Honors World Cultures, students will study and discuss the history and culture of the Middle East, Africa, Asia, Europe, and Latin America. Students will begin with basic concepts of culture and community, and will then examine the "non-Western world," learning about the important people, events, and achievements of each specific area. The course will also contain a comparative analysis of the religions of these areas. In order to link past to present, students will also study the current events and global issues pertaining to each area and culture. Throughout the semester, students will develop social studies skills, including geography and critical thinking skills. This honors level course will challenge students who work at a more rigorous pace and will emphasize reading and writing skills, research, and class presentations. **During the summer prior to taking the course, students must complete the reading of a required book and the relevant assignments which accompany it. Any student who fails to complete the summer reading assignment by the required date will be dropped from the course.**

WORLD CULTURES - 1 credit
Open to students in grade 10

In World Cultures, students will study and discuss the history and culture of the Middle East, Africa, Asia, Latin America, Europe, and Australia. Students will begin with basic concepts of culture and community, and will then examine the "non-Western world," discussing the important people, events, and achievements of each specific area. The course will also contain a comparative analysis of the religions of these areas. In order to link past to present, the present status of each area and culture will also be discussed. Throughout the semester, students will develop social studies skills, including geography, critical thinking, and writing skills.

HONORS AMERICAN POLITICAL SYSTEM AND PA GOVERNMENT – 1 credit
Prerequisite: Must qualify under the requirements for Honors/Advanced Placement classes as specified on page 4 of this Course Selection Guide.
Open to students in grade 11

This course will explore the characteristics of the American political system and the government of Pennsylvania. It will emphasize practical political skills and knowledge for the citizen. Students will analyze and interpret the relationship of government and the economy in an effort to understand the political affairs of the United States. The course will also contain application of the stock market, legislature, constitutional convention, and political parties, while examining the concepts of democracy, the American election process, the basic functioning of the national government and how the economy functions. This course will emphasize current events related to government, politics, and economics. Writing and reading will be emphasized and class participation is required. **During the summer prior to taking the course, students must complete the reading of a required book and the relevant assignments which accompany it. Any student who fails to complete the summer reading assignment by the required date will be dropped from the course.**

AMERICAN POLITICAL SYSTEM AND PA GOVERNMENT - 1 credit
Open to students in grades 11

This course will explore the characteristics of the American political system and the government of Pennsylvania. It will emphasize practical political skills and knowledge for the citizen. The students will examine the concepts of democracy, the American election process, the basic functioning of the national government and how the economy functions. This course will include an emphasis on current events related to government, politics and economics. Writing will be emphasized and class participation is required.

LIFE APPLICATION OF SOCIAL STUDIES – 1 credit
Open to students by Administrative placement only

L.A.S.S. is a course only available to Learning Support students and through the recommendation of the Learning Support teacher. The course focuses on a combination of Psychology, Sociology, Criminology, and Economics. Throughout the course, the students take a deeper look into each of these topics and, when applicable, applying them to real-life scenarios.

SOCIAL STUDIES ELECTIVES

ADVANCED PLACEMENT EUROPEAN HISTORY – 1 credit
Prerequisite: Must qualify under the requirements for Honors/Advanced Placement classes as specified on page 4 of this Course Selection Guide.
Open to students in grades 11 and 12

The AP program in European history is designed to provide students with the analytical skills and factual knowledge necessary to deal with the problems and materials in a survey of European history from the end of the medieval period to the collapse of communism during and after 1989. The course follows the curriculum and expectations set for European history by the College Board, and demands that students complete reading and writing workloads equivalent to full-year introductory college courses. Students will learn not only large quantities of historical information (from both primary and secondary sources) but also how to assess and evaluate that information, applying it to the solution of interpretive problems. **During the summer prior to taking the course, students must complete a summer reading assignment. Students who fail to complete the summer reading assignment by the required date will be dropped from the course**.

ADVANCED PLACEMENT UNITED STATES GOVERNMENT AND POLITICS – 1 credit
Prerequisite: Must qualify under the requirements for Honors/Advanced Placement classes as specified on page 4 of this Course Selection Guide.
Open to students in grade 12

This course is an intense study of the American political system and the American government. Students will know important facts, concepts, and theories pertaining to U.S. government and politics. They will also understand typical patterns of political processes and behavior and their consequences (including the components of political behavior, the principles used to explain or justify various government structures and procedures, and the political effects of these structures and procedures). Finally, students will be able to analyze and interpret basic data relevant to U.S. government and politics. **During the summer prior to taking the course, students must complete a summer reading assignment. Students who fail to complete the summer reading assignment by the required date will be dropped from the course.**

ADVANCED PLACEMENT UNITED STATES HISTORY – 1 credit
Prerequisite: Must qualify under the requirements for Honors/Advanced Placement classes as specified on page 4 of this Course Selection Guide.
Open to students in grades 11 and 12

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

of an informed judgment and to present reasons and evidence clearly and persuasively in essay format. **During the summer prior to taking the course, students must complete a summer reading assignment. Students who fail to complete the summer reading assignment by the required date will be dropped from the course.**

CIVIL WAR- 1 credit
Open to students in grades 11 and 12

This course will survey the major events and themes of the Civil War era, including the rise and destruction of slavery, the nature of antebellum American society, sectionalism, Northern and Southern resources, the political crisis of the 1850s, various aspects of the war itself, the contributions of Abraham Lincoln, the successes and shortcomings of the various Reconstruction plans for the Union in the postwar period, the ways in which Reconstruction methods affected Northerners, Southerners, and Freemen and the legacies of the Civil War era.

CRIMINOLOGY – 1 credit
Open to students in grade 12

This course will introduce students to the major fields of study within our criminal justice system. The students will be exposed to the history and social need of law, forensics, the impact of crime on society, corrections, juvenile justice, procedure of arrest, criminal law, traffic law, and the court system. Students will build a strong working vocabulary as it relates to the various issues and topics discussed. Analytical writing will be an integral part of the course curriculum expressed through essay and research assignments.

ECONOMICS - 1 credit
Open to students in grades 11 and 12

This course will explore the characteristics of the American Economic System. It will emphasize practical economic skills and knowledge for the citizen. The student will examine the unique features of the American free-enterprise system, micro-economics, macro-economics, and the stock market. This course will also include a constant awareness of current events. It is recommended that students choosing this course have earned above average grades in social studies classes.

MODERN AMERICAN MILITARY HISTORY – 1 credit
Open to students in grades 11 and 12

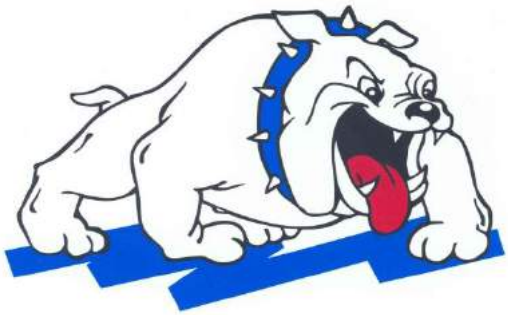
This survey course includes the study of American military history from 1903 to the present as well as the military campaigns conducted by Americans during this period. In addition to studying strategy, tactics, and weapons, issues such as the social composition of the armed forces, the influence of new technologies on warfare, the tension between "professional" and "citizen" soldiers, popular attitudes toward war and the military, and the effects of war on American society will be explored.

SOCIAL PSYCHOLOGY - 1 credit
Open to students in grades 11 and 12

This course provides an overview of psychology. Students will learn theory and the practical application of that knowledge. This course explores the basis of human behavior, studying personality development, memory and learning, and abnormal psychology. Social issues are threaded throughout the course, as well as the study of group dynamics and culture. Discussion is a major aspect of the course.

THE WORLD CRIES: GENOCIDAL STUDIES – 1 credit
Prerequisite: 80% or higher in World Cultures
Open to students in grades 11 and 12

This course will expose students to the problem of international genocide from 1900 to the present and the impact of such atrocities on the development of world history. While a significant amount of time will be spent on the Jewish Holocaust during Nazi Germany, students will also study several examples of both government sponsored and ethnically triggered genocide around the world. Students will also study the psychology behind mass killing and what causes world and/or ethnic leaders to engage in such behavior. The final unit of the course will look at current "hotspots" of such activity and will examine the link between terrorism and genocide.



TECHNOLOGY EDUCATION

ARCHITECTURAL DESIGN AND DRAWING – 1 credit
Open to students in grades 10, 11, and 12

Students will gain an introductory experience into the world of architecture. Basic skills in the design and layout of residential housing will be covered. This class will utilize drafting tools, 3D design software, and modeling techniques to design structures. Students interested in entering a technical or engineering field of study are encouraged to take this course. Students will be required to pay for materials used other than those provided by the school district.

ELECTRONIC SYSTEMS I – 1 credit
Open to students in grades 9, 10, 11, and 12

Electronic Systems I is an introduction to the principles of electricity and electronics. Students will use breadboards or Lab Volt Trainers to explore electronic principles and how components are used. Questions about the experiments will require students to think critically about the procedures they are performing. Project construction and the use of electronic test equipment will also be covered. Students will be required to pay a $10 lab fee for materials used.

ELECTRONIC SYSTEMS II – 1 credit
Prerequisite: Electronic Systems I
Open to students in grades 10, 11, and 12

Electronic Systems II is an advanced course covering the principles of electricity and electronics. Students will use breadboards or Lab Volt trainers to explore advanced circuit design, digital circuits, and communication devices. Questions about the experiments will require students to think critically about the procedures they are performing. Project construction and the use of electronic test equipment will also be covered. Students will be required to pay a $10 lab fee for materials used.

ENERGY, POWER, AND TRANSPORTATION – 1 credit
Open to students in grades 9, 10, 11, and 12

Energy, Power, and Transportation is a broad based course designed to introduce students to the basic concepts and principles of energy, power, and transportation. During the course, students will study scientific and mathematical concepts. Lab activities may include small engine repair/maintenance, CO_2 dragsters, rockets, pneumatic and hydraulic trainers. Students will be required to pay a $10 lab fee for materials used.

GRAPHIC COMMUNICATIONS – 1 credit
Open to students in grades 9, 10, 11, and 12

Graphic Communications is an introductory course that explores the technological processes used to produce and deliver both graphic and electronic media. The students will have exposure to three main aspects of Graphic Communications: Digital Photography, Graphic Design and Printing Technologies. In

the Photography Unit, students will use professional-grade digital cameras to learn how to control exposure and how to take better-looking photos. Students will also get experience in hands on printing when they operate the offset lithography press and screen print. Finally, students will learn the basics of logo design and learn how to create visual images using the Adobe Creative suite. Students will be required to pay a $10 lab fee to help offset the cost of the materials used.

IMAGING TECHNOLOGIES – 1 credit
Prerequisite: Graphic Communications
Open to students in grades 10, 11, and 12

Imaging Technologies is an advanced graphics course dealing with technologies such as digital image manipulation, video production, and computer animation. Students will have experiences in digital photography including composition, manipulation, and printing photographs. Students will have the opportunity to learn computer programs such as Adobe PhotoShop, Illustrator, and Flash. Students will be required to pay a $10 lab fee for materials used.

INTRODUCTION TO DRAFTING AND DESIGN – 1 credit
Open to students in grades 9, 10, 11, and 12

This course is designed to teach the fundamentals of design and computer aided drafting. Students will learn to use 3D modeling software to create drawings of mechanical parts. Throughout the course a variety of design problems will be presented for students to solve. Students will be required to pay for materials needed other than those provided by the school district.

INTRODUCTION TO ENGINEERING TECHNOLOGY – 1 credit
Prerequisite: Physics and Honors Algebra II or Algebra III
Recommended: One Tech. Ed. class: Architectural Design & Drawing, Intro. to Drafting & Design, Materials Tech., or Wood Tech.
Open to students in grades 11 and 12

This course is designed for those students interested in pursuing a career in engineering technology or related fields. The course will prepare students for further education and a career in these fields by introducing them to three main engineering disciplines: mechanical, electrical, and civil. Students will be introduced to the principles and theories of the engineering process through a project-based curriculum where they will then apply these concepts. Approximately half of the course will be spent in a classroom setting focusing on the scientific principles necessary to design and troubleshoot the various projects, while the other half will be spent in a production lab applying the principles through construction of the project. Through this approach, students will better understand the academic concepts as well as the hands-on skills required to be successful in the technical disciplines. Both a Physics and a Technology Education teacher will team-teach this class. Students interested in entering a technical or engineering technology field are encouraged to take this course. Students may be required to pay for some materials required to complete the projects.

HONORS INTRODUCTION TO ENGINEERING – 1 credit
Prerequisite: Minimum of 80% in CP Physics or above and Honors Algebra II or Algebra III
Recommended: Pre-calculus and One Tech. Ed. class: Architectural Design & Drawing, Intro. to Drafting & Design, Materials Tech., or Wood Tech.
Open to students in grades 11 and 12

This course is designed for those students interested in pursuing a career in engineering or related fields. The course will prepare students for further education and a career in these fields by introducing them to three main engineering disciplines: mechanical, electrical, and civil. Students will be introduced to the principles and theories of the engineering process through a project-based curriculum where they will then apply these concepts. Approximately half of the course will be spent in a classroom setting focusing on the scientific principles necessary to design and troubleshoot the various projects, while the other half will be spent in a production lab applying the principles through construction of the project. Through this approach, students will better understand the academic concepts as well as the hands-on skills required to be successful in the engineering and technical disciplines. Both a Physics and a Technology Education teacher will team-teach this class. Students interested in entering a technical or engineering field are encouraged to take this course. Students may be required to pay for some materials required to complete the projects.

MANUFACTURING ENTERPRISE – 1 credit
Prerequisite: Materials Technology and Wood Technologies
Open to students in grades 10, 11, and 12

Manufacturing Enterprise deals with the study of advanced material processing techniques, methods of manufacturing, marketing, business practices, designing tooling for production, and enterprise opportunities. Students will be required to pay for materials used other than those provided by the school district.

MATERIALS TECHNOLOGY – 1 credit
Open to students in grades 9, 10, 11, and 12

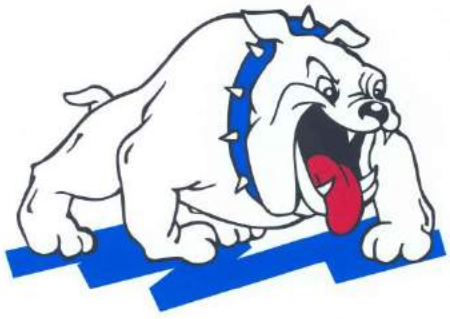
This course is designed to provide an understanding of the characteristics and properties of industrial materials and the processing of industrial materials into consumer goods. The students will investigate the properties of metallic, polymer, composite, and wood materials. Attention is given to the planning and design as well as the development of safe work habits. Students will be required to pay for materials used other than those provided by the school district.

PRINTING TECHNOLOGIES – 1 credit
Prerequisite: Graphic Communications
Open to students in grades 10, 11, and 12

Printing Technologies is an advanced graphics course dealing with advanced printing technologies, computer design and layout, and image manipulation. Specific attention will be given to the composition, design, and layout of publication products. Students will have in-depth experiences with screen printing, offset press printing, and T-shirt design. Students will be required to pay a $10 lab fee for materials used.

<u>WOOD TECHNOLOGIES</u> – 1 credit
Prerequisite: Materials Technology
Open to students in grades 10, 11, and 12

In this advanced woodworking course, students will be able to apply techniques learned in Materials Technology as well as more complex operations. Basic residential construction techniques will also be discussed. Students will be required to pay for materials needed other than those provided by the school.



WORLD LANGUAGES

GERMAN

GERMAN I - 1 credit
Prerequisite: 75% or higher in English

This is an introduction to the fundamentals of German. All basic skills will be covered: listening, speaking, reading and writing. Special emphasis is placed on pronunciation and oral skills of listening, speaking and comprehending. German culture will be discussed and compared with American Culture. This is the beginning of basic vocabulary and grammar studies, to which more will be added each successive year.

GERMAN II - 1 credit
Prerequisite: 75% or higher in German I

This course continues with the approach used in German I. The fundamentals of grammar are continued with special attention placed on pronunciation, listening, speaking and understanding, and reading and writing of simple paragraphs. German traditions and lifestyles are discussed and compared to ours.

GERMAN III - 1 credit
Prerequisite: 80% or higher in German II

German III adds to the structures learned in German I and II. More advanced and complicated grammar forms are learned. Reading selections are on a higher level and more culture and geography is studied through various reading selections. Emphasis is also placed now on writing short paragraphs or essays and using spoken German during the class period.

GERMAN IV - 1 credit
Prerequisite: 80% or higher in German III
In this course, all the speaking, writing and reading skills learned up to this point will be continued on a more rapid level. The most difficult forms of German grammar will be learned and used in the skills of reading, writing and speaking. Topics dealing with life and current events in Germany will be discussed, as well as the culture of Germany, Switzerland, and Austria.

GERMAN V - 1 credit
Prerequisite: 80% or higher in German IV

In this course, the four basic skills of reading, writing, listening and speaking are geared to the advanced levels. Extemporaneous speaking, comprehension of the language, reading of periodicals and composition writing are all part of German V. Short novels and videos are used for reading and listening practice.

Students wishing to continue with German after successfully completing the advanced course may do so with teacher permission and on an independent study basis.

LATIN

LATIN I – 1 credit
Prerequisite: 75% or higher in English
Open to students in grades 11 and 12

This course is designed to help students gain a better understanding of the English language and grammar by exposing them to the root language, Latin. Students will learn how to identify Latin roots of English words which will expose them to new vocabulary. Students will develop translation skills. Roman culture and its effect on western civilization will also be explored as well as Roman mythology.

LATIN II – 1 credit
Prerequisite: 75% or higher in Latin I.
Open to students in grades 11 and 12

This course will expose students to more Latin root words and grammar skills that will be used in translation. Students will also identify English derivatives from the Latin vocabulary and will be exposed to numerous Latin phrases used in conversation today. The use of Latin in medicine, science, and law will be a part of the vocabulary study. Students will continue to learn about the culture of the Roman Empire and the contributions of the Romans to our present day culture. The study of mythology will continue in this course.

SPANISH

SPANISH I - 1 credit
Prerequisite: 75% or higher in English

In this course students will learn about the Spanish-speaking world. In addition, students will learn the basics of the language, how to talk about food, families, friends, school, transportation, possessions, getting around in a city, how to talk about activities and places, how to make plans, tell about events, and ask questions. Emphasis is placed upon grammar fundamentals, listening, reading, writing, and speaking skills. Students will be able to communicate in Spanish from the early stages of the course.

SPANISH II - 1 credit
Prerequisite: 75% or higher in Spanish I.

This course will review the topics of Spanish I. In addition, you will also learn how to describe objects and people, to talk about time, weather and daily life, and to discuss special plans and vacations. You will also learn to talk about health and wellness, sports and pastimes. Continued emphasis is placed on speaking, listening, reading and writing skills, as well as grammar fundamentals. In addition, you will also learn more about the Spanish-speaking world.

SPANISH III - 1 credit
Prerequisite: 80% or higher in Spanish II.

This course is conducted principally in Spanish. You are expected to use Spanish as the primary language

of communication in class. You will review the things learned in Spanish II and you will learn how to make purchases of clothing and shoes. You will learn more about foods, restaurants, markets, and stores. You will learn to use the telephone and to make travel arrangements and use a map. Greater emphasis is placed on speaking and listening skills. Reading, writing, and grammar study is continued. You will continue to learn about the Spanish-speaking world.

SPANISH IV - 1 credit
Prerequisite: 80% or higher in Spanish III.

This course is conducted principally in Spanish. It is the primary language of communication in class. You will continue building your vocabulary and reading skills extensively and you will refine your grammar skills. Geography and culture of Spanish-speaking countries continue to be highlighted. Spanish language films supplement the course work to enhance student understanding of Hispanic culture.

SPANISH V - 1 credit
Prerequisite: 80% or higher in Spanish IV

This course is conducted in Spanish and you are required to participate fully in Spanish. You will continue vocabulary building and grammar review and you will polish your writing skills. Hispanic culture is highlighted in a variety of ways, including text and film.

Students wishing to continue with Spanish after successfully completing the advanced course may do so with teacher permission and on an independent study basis.