

PRINCIPAL'S MESSAGE

Dear Parents and Students:

It is essential that careful and intelligent decisions be made about programs and selection of courses. Belle Vernon Area High School offers several programs of instruction and a number of courses for students to satisfy their needs and interest.

The programs and courses selected in the 9th, 10th, 11th, and 12th grade will determine a student's transition from high school to higher education or the world of work. Make certain that the course of study you undertake will meet the requirements of the career you plan to enter.

Please keep in mind that a great deal of time will be spent in assigning the various courses. Once a complete schedule has been established, any change affects class size, teacher assignment, room utilization, and many other aspects of the school program. **Therefore, it will be necessary to consider a signed course selection form as a contract between the school, the student, and the parent. Changes in assignments will be made only when the original schedule proves detrimental to the student's welfare.**

The Belle Vernon Area faculty, guidance staff and administration will provide students with assistance in designing a program best suited to their ability, interest, and career goals. It is our hope that every student will secure the preparation necessary to follow and attain his or her life's goals throughout high school.

Sincerely yours,

Gregory J. Zborovancik, Principal
Maria C. Weightman, Asst. Principal

BELLE VERNON AREA HIGH SCHOOL
425 Crest Avenue
Belle Vernon, Pennsylvania 15012

It is the policy of the Belle Vernon Area School District not to discriminate on the basis of age, sex, handicap, race, color and national origin in its educational and vocational programs, activities, or employment by Title IX, Section 504 and Title VI.

For information about your rights or grievance procedures, contact the Title IX Coordinator and Section 504 Coordinator, Gregory J. Zborovancik, at Belle Vernon Area High School.

Telephone: (724) 929-9800

FOREWORD

On the following pages you will find the information which may help you in making your course selections. You and your parents should study this information carefully and consider the many opportunities that are available for you.

The record of your high school years and the influence it will have upon your future is something that should receive the most careful appraisal and study by both you and your parents. A good record can help you in your future career, and just as surely, a poor record can hurt you. The time of decision is NOW. The time for you to plan and begin to build a good high school record, in scholarship, citizenship, and attendance, is NOW.

This guide is for you and your parents. It is intended to provide you with information about school practices and services, to help you to make the most of your abilities and potentialities, and to help you to make course selections which will be consistent to your aptitudes and interests.

There is no known formula which will guarantee the successful choice of a career. There are several suggestions, however, which might help you to weigh thoughtfully the factors which must be given consideration in planning your future.

1. Understand yourself.

Know your ability, interest, aptitude, and potential. Be aware of your limitations, for these might weigh heavily in your decision.

2. Learn about the world of work.

Investigate the different occupational fields of work. Make good use of the many materials that are provided for you in our library and the counselors' offices. Do not hesitate to ask for information which would help you gain a clear picture of what is involved in any job field.

3. Become aware of the many kinds of post high school educational opportunities.

On file in the school, you will find information about many kinds of schools which offer post high school training. College catalogs are available in large numbers. Bulletins of information from business schools can be had for the asking.

4. Match yourself and your career information as best you can.

Analyze yourself as a person with relation to the fields you study. Do you like working with people, or do you prefer to work alone? Do you like close, analytical study with particular attention to minute details, or do you prefer to work in broad generalities? Most of the materials available will give you a good description of the type of personality necessary for success in that field. Study these carefully, discuss them with your parents and with others who can help to guide you.

THE SCHOOL AND YOUR FUTURE PLANS

Belle Vernon Area High School offers many forms of assistance to you to help you make decisions regarding the future. Among these you will find:

1. Individual Counseling

Available to the student and his parents are the services of the counselors, the home room teachers, and the principal. They will be glad to assist the student with self-evaluation and decisions. They will make available to the student and his parents helpful information from records, college or vocational school catalogs, books and pamphlets for study, and their knowledge of the student as a person. In the final analysis, however, the choice of a vocation, future educational plans, and elective high school subjects is up to the student. He is the one who will have to perform the necessary tasks which are involved in implementing his choice.

2. Group Conference

Counselors on appropriate occasions will assemble groups of interested students to discuss various professional and educational opportunities. Outside speakers at times participate in these discussions. Representatives of colleges visit the high school and interested students may be interviewed by them.

3. Testing

Test records are on file in the guidance office for each student from the date of his entry into Belle Vernon Area schools. Additional tests - psychological, achievement, aptitude, and interest inventories - will be administered routinely to all students at selected grade levels. The interpretation of these tests to students and their parents constitutes an important part of individual counseling.

4. Vocational Materials

Up-to-date materials in all fields of work are available in the library and guidance offices. These materials contain much specific information about vocational fields.

5. Student Activities

Through active participation in extracurricular activities, the student helps himself to discover areas of interest which may lead to vocational choice. Even if vocational interest is not aroused, participation in activities is valuable in assisting the student to learn to work cooperatively with others in the give-and-take situation of planning and carrying out projects.

Throughout your high school years, you are encouraged to talk to as many people as possible about career opportunities, to read widely, to make first-hand observations where practical, to think deliberately and consciously about yourself in relation to broad areas of occupational activity. Very few of you at this point can or should attempt to make a permanent choice of a career; shortly, however, you should be capable of identifying the large areas of interest and aptitude in which your eventual selection is likely to be found.

COLLEGE ENTRANCE REQUIREMENTS

All institutions of higher learning have requirements for admission which are described in their current catalog as well as on their website. In a brief summary, the admission requirements for the majority of the colleges may include the following:

ADMISSIONS REQUIREMENTS

S.A.T.or A.C.T. Test

Some colleges require achievement tests. Deadlines differ among the colleges. Seniors should take the required tests in October, November or December.

Academic Subject Requirements

Each college=s requirements are found in the college catalogs available in the guidance office or the library or by visiting the individual college website.

BASIS FOR SELECTION

High school grades, recommendation by the counselor/teacher, class rank, S.A.T. or A.C.T. scores, and in some cases, an interview along with co-curricular activities may be considered for admission. Students should begin to apply to colleges and universities at the end of their junior year or the beginning of their senior year. Check with your Guidance Counselor for further information.

CLASS RANK

Post secondary schools of education use a student's high school class ranking as one criterion for assessing the student's ability to succeed. At Belle Vernon Area, class rank is based on ALL grades received during the ninth, tenth, eleventh and twelfth grade. **All** students will need to carry a minimum of 7 credits per year to be considered for class rank (Students carrying classes with two or more lab days will need a minimum of 6.8 credits). In the case of a tie for Valedictorian or Salutatorian, the student with the most number of graded classes will be awarded the higher ranking. Class rank will be on a weighted grading system based on a student's TOTAL QUALITY POINTS instead of Quality Point Average. QPA will still be used to determine the honor roll and will be one of the components for admission into the National Honor Society.

Honors classes are given an extra quality point for students that make a "C" or better in the course. Beginning with the class of 2011, the following scale will be used for classes that have honors weighting:

- A = 1 extra quality point
- B = .5 extra quality point
- C = .25 extra quality point

A new grading scale is being phased in for the Belle Vernon Area School District. All students will follow a grading scale that does not have pluses or minuses. This scale will be 93 – 100 (A), 85 – 92 (B), 73 to 84 (C), 63 – 72 (D), and 62 or below (F).

GRADUATION REQUIREMENTS

Belle Vernon Area High School students are required to meet the following graduation requirements:

1. Successfully complete 26 credits in the High School (25 for Career and Technology students). See Page 52 for detailed credit requirements.
2. Successfully complete the requirements for the High School Project.
3. Score at the >proficient level or higher= on the Pennsylvania System of School Assessment (PSSA) tests in reading, writing, and mathematics OR fulfill the requirements below that are considered equivalent to performance on the PSSA:
 - A. Pass the "retake" PSSA test (math, reading, writing) at the proficient level or higher.
 - B. Successfully complete the requirements for graduation as described in the student's Individualized Education Plan (IEP).
 - C. Any student not meeting the "proficient level or higher" in **mathematics** must complete the PSSA Enhancement Math Class (Course #339) with a grade of 75% or higher each of the four nine weeks (75% or higher final average). Students who are problematic will be given one opportunity to return to the class after a parent meeting and a contract is signed by the teacher, student, parent, and administrator. **Students that fail to follow the signed contract will be removed from the class permanently and will not graduate.**
 - D. If a student did not meet the "proficient level or higher" in **reading** or **writing**, they must score at the "proficient level or higher" on the Belle Vernon Area School District Proficiency Exam in reading and/or writing. The exam will be based on the Belle Vernon Area School District curriculum and will include a focus on selected academic standards. A passing score of 75% or higher will be required. The score will reflect the school district's expectations for proficiency in reading and writing.
 - E. If a student fails to meet the "proficient level or higher" in reading, mathematics, and/or writing, they can request a hearing before the "Appeals Committee" in order for them to graduate.

SENIOR HIGH SCHOOL PROGRAM OF STUDIES

The Belle Vernon Area High School program of studies has been designed to meet the personal needs of our youth. In planning this program, we have taken into consideration the pupils' present needs and their ultimate vocational goals. The program offers a definite degree of flexibility through the provision of a greater number of areas. Each area is designed to provide continuous and concentrated educational experiences---experiences that will encourage self-development in line with the student's aims, goals, abilities, capabilities and interests. Before selecting a specific area of study, senior high school students should examine their future vocational goals or ambitions. This will save much time, energy, and confusion in later years. It is wise to plan your program of studies for your entire high school career, rather than on a year-by-year basis.

ADVANCED PLACEMENT

Courses are offered in several content areas such as: English, American History, European History, Chemistry, Biology, and Calculus. These are taught to the curriculum standards provided by the Educational Testing Service and designated AP on the transcript only if a student takes the AP test. Students may earn college credit with a passing grade in these classes along with a passing score on the AP test.

ACCELERATED COURSES

Students must follow the Accelerated Studies Program which in turn will lead into the Honors Curriculum in their junior and senior years. Student must qualify for the Honors Program during their junior and senior years by taking the Accelerated Studies sequence during their freshman and sophomore years. For those subjects that have accelerated coursework, no one will be permitted into the honors program in their junior year without having taken the prerequisite accelerated course during their sophomore year. For example: A student cannot take Accelerated English 9, skip Accelerated English 10 by taking Academic English 10, and then jump to Advanced Placement English 11.

HONOR COURSES

An honors course is a rigorous course demanding a higher level of reading ability and requiring a higher level of cognitive thinking. Honors courses are the highest level of academic course work leading to Advance Placement work. Honors courses are designated on the transcript.

INDEPENDENT STUDY

Juniors and seniors wishing to take an independent study course may do so only if a faculty member is willing and available to supervise the program of study. Grading will be on a Pass (P)/Fail (F) basis only. The independent study will not be included in your total quality points or calculated into your grade point average. No added weight will be given regardless of the type of class.

DUAL ENROLLMENT COURSES

These courses provide qualified junior and senior students an opportunity to earn college credits while completing their high school graduation credit requirements. Belle Vernon Area High School offers two types of dual enrollment courses:

1. Those courses that are taught at the high school by BVAHS faculty whose courses have been certified by local colleges/universities as college level, and
2. Courses offered at post-secondary schools (outside of regular high school hours) taught by college/university staff.

Both types of dual enrollment courses provide students with the opportunity to gain elective credit toward high school graduation while beginning to earn credits toward a college education. Students are charged tuition and fees and are responsible for the cost of books. Grant funding may be available to offset some of the costs if the student is pre-registered. It is imperative that students check with the post-secondary institution that they plan to attend to find out if they accept dual enrollment credits. Students must also understand that by enrolling in one of these courses they are beginning a transcript at that post-secondary school.

Students interested in enrolling in any of these courses must indicate their desire to the guidance office. Each post-secondary school listed below has a concurrent agreement with the Belle Vernon Area School District describing the details of the program. Some of these post-secondary schools will require an entrance exam.

Currently for 2010-2011, Belle Vernon Area has agreements with the following post-secondary institutions:

- Penn State University – Fayette Campus and Mon Valley CTC satellite site
- Westmoreland County Community College – Mon Valley (Fellsburg) site
- University of Pittsburgh (College in High School Program)

Courses available as a part of the high school curriculum and taught by members of the Belle Vernon Area High School faculty are:

- Argument & Debate: University of Pittsburgh College in the High School
- Statistics: University of Pittsburgh College in the High School
- Calculus: University of Pittsburgh College in the High School
- Intro to Computer Programming Using Java: University of Pittsburgh College in the High School

Following is a listing of anticipated courses that will be available at locations outside of Belle Vernon Area High School:

WESTMORELAND COUNTY COMMUNITY COLLEGE COURSE OFFERINGS (FALL AND SPRING)

College Writing	Advanced Composition
Beginning French 1	Introduction to Art
General Psychology	American Sign Language
College Algebra	College Physics I
General Chemistry	Microcomputer Concepts
General Biology	Early US & PA History

PENN STATE UNIVERSITY – FAYETTE CAMPUS COURSE OFFERINGS (FALL AND SPRING)

Environmental Science	Human Body: Form and Function
Intro to Human Development & Family Studies	Intro to Ethics
Intro to Sociology	Criminology
Juvenile Delinquency	

The following information is presented to help our pupils to plan their programs intelligently and constructively.

I. ACADEMIC CURRICULUM

The Academic Curriculum is divided into two areas, College Preparatory and Scientific-Engineering. This curriculum prepares for law, the ministry, teaching, social science, library work, journalism, nursing, fine arts, medical, dental, dietetic, architecture, pharmacy, and engineering fields and requires advanced math and advanced science courses.

College entrance requirements vary and are not uniform. Therefore, it is very important for the student who plans to attend college to make a serious effort to select the college of his choice as early as possible.

Early selection of a college will enable the student to pattern his course load to meet specific entrance requirements. Students should begin to consult their teachers and counselors and to study college catalogs in their sophomore year.

These are the programs that prepare directly for college. Pupils with high scholastic ability and a genuine interest in advanced education are advised to select the Academic Curriculum.

II. LIBERAL AND PRACTICAL ARTS CURRICULUM

This curriculum is offered to meet the needs of students who are interested in non-academic vocations. Students are free to explore a wide range of subjects to meet their varied and specialized interests. Students in this curriculum may be prepared for admission to some institutions of higher learning by proper selection of elective subjects and by maintaining a high scholastic rating.

III. COMPUTER AND BUSINESS TECHNOLOGY CURRICULUM

Computer and business technology provides students with basic and advanced instruction to develop computer skills in Microsoft Office applications, basic and advanced programming courses, web design, and a background of business understanding which should develop a degree to economic competency and personal life skills for students.

Students who diligently pursue the computer technology offerings should be able to continue their training at a business or technical school, or enter a college degree program. They can become competent to complete the Microsoft Certified Application Specialist (MCAS).

Those wanting to continue their education can get a jump on college credits by taking the courses we offer for credit through Westmoreland County Community College and the University of Pittsburgh. Honors courses are also offered in the Computer and Business Technology Department.

IV. CAREER-TECHNOLOGY PROGRAM

Belle Vernon Area High School is a participating member of the Central Westmoreland Career and Technology Center. This school is organized to provide educational opportunities for boys and girls of the county, in conjunction with the various local high schools. It is intended for those students who wish to prepare for occupational usefulness following graduation. It is intended for the boy or girl who wants to approach a prospective employer with more than merely a desire for a job. The courses, particularly the technical ones, are also designed to prepare the student for entrance into institutions of higher learning.

Those students who elect to attend this school will spend a half day at the Career and Technology Center in New Stanton and the other half day at Belle Vernon Area High School. Transportation will be provided by the school district. Students interested in a vocational or technical program should consult with a guidance counselor for particulars.

CAREER-TECHNOLOGY SCHOOL PROGRAMS OFFERED

9, 10, 11, 12th Grade

Auto Collision Technology
Auto Technology
Carpentry
Commercial Art & Illustration
Computer & Information Technology
Computer Aided Drafting
Construction Trades
*Cosmetology
Culinary Arts
Electrical Technology
Electronics Technology
Graphic Communications
Health Prof./Occupations
Heating & Air Conditioning
Horticulture
Industrial/Residential Paint/Design
Machine Trades Technology
Masonry
Material Handling/Distributing
Metal Fabrication/Welding
Plumbing
Powerline/TEC 2000+
*Protective Services
Retail Sales, Marketing/Distribution
***Must be 10th grade or higher to enroll.**

For further information, see your counselor.

Note for 9th grade students: In order to be eligible to enroll in CWCTC, students must show a clear vision of why they are choosing this track for 9th grade. The process to determine the eligibility for the early decision CWCTC program in 9th grade consists of two main parts. One part must be completed by the student showing a clear purpose for early admission to the program. The second part will be completed by school officials to determine the eligibility for admission to the programs based upon several academic and behavioral indicators. The coursework at CWCTC only requires 3 years to complete the requirements, although several programs offer additional benefits by attending a fourth year. If, after the early decision process is complete, it is determined that a student is not eligible for the 9th grade coursework, please feel free to reconsider and reapply for admission for the 10th grade year.

LANGUAGE ARTS DEPARTMENT

Reminder: You are required to take one unit of language arts each year for a total of four units for graduation. You must successfully complete all required courses within your curriculum. If you find it necessary to repeat a required course, you must repeat the course the following year in addition to the sequential required course.

074 READING I (Grade 9)

This course enables students to maintain their proficiency in the basic critical reading skills. Through high interest stories and activities, the student will maintain his/her reading comprehension, word recognition, writing skills, and oral communication skills.

075 READING II (Grade 10)

Reading II is a continuation of Reading I, focusing on literature. Comprehension and the interpretation of stories are stressed, in addition to oral and written communication skills.

090 ENGLISH I (Grade 9)

This course is designed to integrate writing, grammar, speaking, and reading. Material progresses from the individual parts of speech to word groups, sentence building, paragraph writing, and into composition development. Students will complete vocabulary and comprehension selections for selected novels.

091 ENGLISH II (Grade 10)

This class offers an integrated approach combining literature and grammar. Students will read plays/short stories and answer questions orally and through writing. Students will be encouraged to develop critical thinking, communication and vocabulary skills after reading a selected novel. Grammar units will be evident in daily sentence writing and paragraph writing.

092 ENGLISH III (Grade 11)

This class offers a comprehensive emphasis on the writing process. The students will connect the thinking process with writing based on the foundation of grammar skills. Students will distinguish between parts of speech and paragraph development. Students will extrapolate on the vocabulary and content of selected novels through class discussion.

093 ENGLISH IV (Grade 12)

This course encourages and prepares students to successfully pursue their job opportunities in the adult work environment. The student will be presented with the demands and challenges of different careers. The student will learn how to locate and apply for a job. Focus will be on the responsibility of the student to be a positive member of the community. The student will exit the program with a fact sheet and a resume. The course is designed to lead a student to gainful employment based upon individual interests and abilities.

In our Language Arts Department we have three areas of curriculum choices designed for you. You may choose from the English program, the college preparatory English program, or the accelerated English program. Please read each course offering carefully and discuss your decision with your language arts teacher, your guidance counselor, and your parents.

**ONE YEAR REQUIRED COURSES OF ALL LIBERAL
AND PRACTICAL EDUCATION STUDENTS**

These courses are designed for all liberal and practical students who plan to enter the work force, a vocational school, or the military service, and want to increase their knowledge of the fundamentals of grammar, language, communication, and writing skills. Importance is placed on reading and discussing literary works as they impact everyday life. This program is designed to help high school students make the transition from school-to-work.

100 HUMANITIES CORE: HUMANITIES (9 Weeks) (Grade 9)

This course will be a multi-level Humanities course with a nine week rotating schedule. Students may rotate Humanities, PSSA Prep and Music Appreciation. Each area will meet for a nine week period. **(Schedule this course if not scheduling French or Spanish)**

HUMANITIES: The student will broaden his/her reading and discussion skills through the selection of literature focused toward the life of a teenager. Works covered may include the novels Scorpions and Don't You Dare Read This, Mrs. Dumphrey. The student is encouraged to experience reading material that is relatable and presents issues that causes one to think.

110 ENGLISH 9 (Full Year) (Grade 9)

Recommendation: Students who are interested in a non-academic vocation should schedule this class.

Students will focus on vocabulary, editing skills, writing, and reading comprehension. Students will complete exercises in a vocabulary workbook to strengthen writing and reading skills. Students will work on their editing skills to enable them to develop coherent paragraphs that are free of grammatical errors. Grammar will be integrated with the writing exercises and editing drills. Students will read short stories, novels, and plays that focus on literal and critical thinking skills. The major works covered may be Hoot, Tex, The Call of the Wild, Holes, Brian's Winter and The Odyssey. Students will read short story selections from the Jamestown Critical Reading Series. The course is designed for students who plan to enter the work force, a vocational school, or the military service. Study Island will be used as needed for student preparation and enhancement of reading and language skills.

120 ENGLISH 10 (Full Year) (Grade 10)

Prerequisite: Students should have taken English 9 or by recommendation of their present English teacher. Students who are interested in a non-academic vocation should schedule this class.

The class offers an integrated approach combining literature, writing, grammar and vocabulary. Students will respond to the literature by answering questions both orally and through writing. Students will be asked to relate the reading to their experiences. Grammar units will be covered through each of the stories discussed. Students will develop vocabulary skills in each story and through the use of the Vocabulary Workshop text. Major works covered MAY be excerpts from King Arthur, A Thousand and One Nights, The Giver, The Outsiders, Rumble Fish, and That Was Then, This is Now. Students may also read real-life adventure selections from the Jamestown Critical Reading Series. Lessons may be incorporated to teach PSSA practice, and Study Island will be used as needed for student preparation and enhancement of reading and language skills.

130 ENGLISH 11 (Full Year) (Grade 11)

Prerequisite: Students must have taken the prior sequential course and be recommended by their present English teacher. Students who are interested in a non-academic vocation should schedule this class.

This class offers an integrated approach combining literature, writing, and grammar. Works covered may include the novels The Contender, To Kill a Mockingbird, and Staying Fat for Sarah Byrnes. Students may also read and respond to pieces from American Literature for Life and Work. Students will develop vocabulary skills through use of the workbook, Vocabulary for Achievement. Additionally, lessons from the Jamestown Critical Reading Series: Calamities, Alien's and UFO's, and Daredevils may be incorporated to teach PSSA practice. Research skills will be incorporated into this class. Writing and public speaking skills may be developed through the inclusion of a research project. The student may also work on a variety of lessons which are designed to prepare the student for skills needed on the job. Study Island will be used as needed for student preparation and enhancement of reading and language skills.

140 ENGLISH 12 (Full Year) (Grade 12)

Prerequisite: Students must have taken the prior sequential course or be recommended by their present English teacher. Students who are interested in a non-academic vocation should schedule this class.

This course is designed for liberal and practical arts students. Emphasis is placed on improving reading and writing skills. In addition to vocabulary enhancement, students may be exposed to novels such as Animal Farm, Welcome to the Ark, The Five People You Meet in Heaven, The Old Man and the Sea, nonfiction, drama, short stories, and poetry. The students will read selections from the Jamestown Critical Reading Series: Heroes, Monsters, Eureka, Disasters, Rescued, Eccentrics, Choices, and Discoveries. Also, students will compose personal and expository papers, business letters and resumes. Research skills will be incorporated into this class. The course may include a senior book@ (collection of writings).

ONE YEAR REQUIRED COURSES OF ALL COLLEGE PREPARATORY ENGLISH STUDENTS

These courses are designed for students who desire to develop strong English skills in preparation for the college experience. An integrated approach will be used to teach grammar, writing, and literary skills. Emphasis is placed upon longer literary works and discussing them in more detail to encourage development of effective analytical and interpretive skills. Library research will be conducted, and MLA documentation skills will be used in the writing of paragraph and multi-paragraph papers. Emphasis is placed upon world literature in the freshman and sophomore years, American literature in the junior year, and English literature in the senior year.

111 COLLEGE PREPARATORY ENGLISH 9 (Full Year) (Grade 9)

Prerequisite: Students should be maintaining a C or better in their grade 8 English class and grade 8 reading class, or be recommended by their English teacher.

The first year of the academic English program offers an integrated approach combining grammar, vocabulary, literature, and writing for the college bound student. Grammar will be integrated with the literature lessons and writing. Grammar will include parts of speech, complements, phrases, and mechanics. Writing lessons will focus on developing a unified, well organized paragraph that offers support to the topic. Writing will focus on critical essays based on literature from the text and personal essays. Research skills will be incorporated into each class. Literature will include the short story, poetry, nonfiction essays, plays, and novels. The major works studied may include Great Expectations, Romeo and Juliet, and The Odyssey. Study Island will be used as needed for student preparation and enhancement of reading and language skills.

121 COLLEGE PREPARATORY ENGLISH 10 (Full Year) (Grade 10)

Prerequisite: Students should be maintaining a C average in College Preparatory English 9 or be recommended by their present English teacher.

The second year of the college preparatory English program emphasizes an integrated approach to the study of world literature, composition, grammar, and basic research skills for the college bound student. In world literature the student studies selected short stories, poems, dramas, nonfiction essays, and novels that reflect various cultures and universal concerns of humanity. Major literary works MAY include Julius Caesar, Antigone, Oedipus Rex, A Separate Peace, Summer of My German Soldier, The Hobbit, Night, and some King Arthur stories. Grammar lessons integrated with the world literature selections focus on the study of modifiers, phrases, clauses, varied sentence structures, and mechanics as they relate to unit writing activities. Composition lessons enable the student to use detailed support evidence to write unified, well-organized paragraphs based on the literature read or life experiences. Research skills will be incorporated into this class. The curriculum is tentative depending on the needs of the particular classes. Study Island will be used as needed for student preparation and enhancement of reading and language skills.

131 COLLEGE PREPARATORY ENGLISH 11 (Full Year) (Grade 11)

Prerequisite: Students should be maintaining a C average in College Preparatory English 10 or be recommended by their present English teacher.

The third year of our academic English program for the college bound student emphasizes an integrated approach to the study of American literature, composition, grammar, and research skills. In literature, the student studies selected short stories, essays, poems, plays, and novels, which are analyzed from a personal and historic perspective. Major literary works may include The Great Gatsby, To Kill a Mockingbird, Of Mice and Men, The Crucible, and Macbeth. Composition and grammar lessons focus on the writing of personal and literary essays. Also included in the course is the study of SAT-style vocabulary and writing college essays. Study Island will be used as needed for student preparation and enhancement of reading and language skills.

141 COLLEGE PREPARATORY ENGLISH 12 (Full Year) (Grade 12)

Prerequisite: Students should have maintained a C average in the prior sequential course or be recommended by their present English teacher.

The fourth year of the academic English program emphasizes an integrated approach to the study of British literature, multi-paragraph writing, grammar, and methods of research for the college bound student. In literature the student studies thematic essays, biographies and autobiographies, short stories, epics, poems, and plays of varied genre and time periods, ranging from Old to Modern English. Major literary works may include Beowulf, The Canterbury Tales, Rime of the Ancient Mariner, Hamlet, Lord of the Flies, excerpts from King Arthur, Pygmalion, and 1984. Composition lessons focus on methods of paragraph development and organization, principles of essay writing, and various modes of writing. Grammar lessons emphasize continued study of phrases, clauses, and sentence structure as they relate to writing skills. Usage and mechanics skills are taught as a remedy for commonly made errors in composition. A literary research paper requiring analytical, interpretive, and critical thinking skills is prepared. Use of MLA manuscript form, parenthetical documentation, and bibliographical citations are an integral part of this course and required for graduation. The course may include a Senior book@ (collection of writings).

ONE YEAR HONOR COURSES REQUIRED OF HONOR STUDENTS

These challenging courses are designed for mature college bound students who excel in reading, writing, knowledge of grammar, and understanding of literary techniques. The higher level analytical, interpretive and critical thinking skills are required. Emphasis is placed on reading extensively out of class. All composition assignments are related to the literature studied and frequently involves MLA research skills. Emphasis is placed upon world literature in the freshman and sophomore years, American literature in the junior year, and English literature in the senior year. These courses are designed to prepare interested students to take the optional Advanced Placement English Test: Language and Composition and/or Literature and Composition.

112 ACCELERATED ENGLISH 9 (Full Year) (Grade 9)

Prerequisite: Students should have scored at the Advanced level on the Reading PSSAs, be maintaining an A grade average in grade 8 English AND in grade 8 reading, and be recommended by their present English teacher or by their present reading teacher.

Through an integrated language, world literature, and composition approach, advanced students will define and identify elements of literature, express and explain responses to literature, evaluate the effectiveness of literature through analysis, improve reading proficiency and vocabulary, and gain exposure to notable authors. Students will complete in class timed writings and focus on the five paragraph essay relevant to the literature selections. Research skills will be incorporated into this class. Students will be encouraged through class discussions to express opinions about the assigned literary selections. Grammar and mechanics will be reinforced through editing drills and the student=s writing. Vocabulary will be reinforced through weekly exercises from a vocabulary text. Literature units will include short stories, poetry, nonfiction essays, plays and novels. The major works may include Animal Farm, Lost Horizon, The Odyssey, King Henry the Fourth Part I, Visitor from Forest Hills, and Romeo and Juliet. Study Island will be used as needed for student preparation and enhancement of reading and language skills. Accelerated English 9 is designed to prepare the student for Advanced Placement English 11 and 12.

122 ACCELERATED ENGLISH 10 (Full Year) (Grade 10)

Prerequisite: Students should be maintaining an A average in Accelerated English 9 or be recommended by their present English teacher.

Through an integrated language, world literature, and composition approach, students will critically evaluate

elements of literature, provide oral and written interpretive conclusions about a literary work=s meaning and value, will become careful, deliberate readers and observers of details, increase their vocabulary proficiency, deepen their understanding of the ways writers use language, and develop their analytical reasoning skills. Students will write personal, critical, analytical, and research essays relevant to the universal concerns of humans as they appear in the world literature studied as well as from the perspective of general knowledge or daily life observation. Grammar and mechanics will be addressed in conjunction with in-class timed-writing assignments and the longer required compositions. Research skills utilizing MLA manuscript form, parenthetical documentation, and bibliographic citation are also developed. Major works MAY include All Quiet on the Western Front, Antigone, The Iliad, Julius Caesar, Oedipus Rex, Night, Our Town, A Separate Peace, A Tale of Two Cities, Cyrano de Bergerac, The Tempest, The Metamorphosis, and others. In addition, Study Island will be used as needed for student preparation and enhancement of reading and language skills. A summer reading assignment including a reading log is required as a part of this course. Accelerated English 10 is designed to prepare the student for Advanced Placement Honors English 11 and 12. Course content and speed are subject to change.

132 ADVANCED PLACEMENT ENGLISH 11 (A.P. LEVEL COURSE) (Full Year) (Grade 11)

Prerequisite: Students should be maintaining an A average in the Honors English 10 or be recommended by their present English teacher.

A. P. English 11 is an active course demanding intense preparation and participation for the highly motivated student with strong reading and writing skills. The student should be fully competent in reading literature and writing essays at a fast pace, through the integrated study of (primarily) American literature (novels, plays, short stories, and poems). This course is designed to develop reading comprehension, writing, and discussion skills beyond the factual to the interpretive, critical, and evaluative levels of proficiency, with emphasis on skills related to the A. P. English Language and Composition and A. P. English Literature and Composition tests. Students will write literary essays, short topical research papers, reading journals, and chapter précis of longer works. Methods of effectively answering essay questions and timed writings (in class/computer lab) will be emphasized. Major works to be studied in this course may include The Scarlet Letter, The Great Gatsby, Death of a Salesman, The Crucible, Ethan Frome, Macbeth, The Red Badge of Courage, A Raisin in the Sun, and The Glass Menagerie. In addition, Study Island will be used as needed for student preparation and enhancement of reading and language skills. The very nature of the AP exam necessitates the above conditions since both the objective and the essay questions on the three hour test assume that the student is thinking and working at a college level. Course content and speed are subject to change. (A summer reading and writing requirement should be expected.)

142 ADVANCED PLACEMENT ENGLISH 12 (A.P. LEVEL COURSE) (Full Year) (Grade 12)

Prerequisite: Students must have maintained an A average in the prior sequential course or be recommended by their present English teacher.

A. P. English 12 demands intense preparation for highly motivated students with strong reading and writing skills. Through the integrated study of literature, language, composition, and skills related to the A. P. English Literature and Composition Test and the A. P. Language and Composition Test, students will study English drama, poetry, novels, and short stories. Major works may include Hamlet, Beowulf, The Canterbury Tales, Brave New World, Pride and Prejudice, Frankenstein, Wuthering Heights, Jane Eyre, A Midsummer Night=s Dream, and Far From the Madding Crowd. Students will compose personal, expository, research, and creative papers including autobiography, variations of the five paragraph thesis, literary research, short story, poetry, and both computer lab and in-class timed writings. In addition to daily class participation, students will enhance speaking skills through individual and group presentations. The very nature of the Advanced Placement Test necessitates the above since the objective and the essay questions on the three hour exams assume that students are working at a college level. Course content and speed are subject to change.

LANGUAGE ARTS DEPARTMENT ELECTIVE PROGRAM

We invite you to sample our elective program. Our elective program offers classes in literature, journalism, speech, and writing. Whether you choose one or more of our elective courses because you are interested in a subject area or because you wish to strengthen a particular skill, we hope our program will meet your special needs.

101 SPEECH I B Grade 9 (Full Year)

Prerequisite: An A or B average in English or teacher recommendation. Students who are planning to attend college should take this course.

Students are invited to join in our fun, yet purposeful activities that improve speaking skills. Learn basic delivery skills of volume, rate, expression, and eye contact in short, fun personal speeches. Learn how to prepare a short PowerPoint presentation for a speech along with preparing speaker notes. Throughout the year we will give short announcement speeches, personal interest speeches, introduction speeches, award speeches, demonstration speeches, and informative speeches. All speeches are prepared in class using a step by step process as we learn to choose speech topics, prepare outlines, revise speeches, practice, and present speeches. We will talk about stage fright and how to better handle it. Various uses of technology will be incorporated into our class lessons and speeches. We will work individually, with partners, and with small groups as we prepare our speeches.

This course is a prerequisite for the three-credit University of Pittsburgh College in High School class, Argument and Debate.

103 SPEECH I - Grades 10-12 (Full Year)

Prerequisite: An A or B average in English or teacher recommendation. Students who are planning to attend college should take this course. (*Students who have taken Speech I - Grade 9 cannot schedule this course.*)

Students are invited to join in our fun, yet purposeful activities that improve speaking skills. Learn basic delivery skills of volume, rate, expression, and eye contact in short, fun personal speeches. Learn how to prepare a short PowerPoint presentation for a speech along with preparing speaker notes. Throughout the year we will give short announcement speeches, personal interest speeches, introduction speeches, award speeches, demonstration speeches, and informative speeches. All speeches are prepared in class using a step by step process as we learn to choose speech topics, prepare outlines, revise speeches, practice, and present speeches. We will talk about stage fright and how to better handle it. Various uses of technology will be incorporated into our class lessons and speeches. We will work individually, with partners, and with small groups as we prepare our speeches.

This course is a prerequisite for the three credit University of Pittsburgh College in High School class, Argument and Debate.

104 ADVANCED SPEECH (Full Year) (Grades 10-12)

Prerequisite: Any previous speech class with an A or B average and teacher recommendation.

Come and join us in fun filled speaking activities as we incorporate various uses of technology into our speeches. Students will create podcasts, participate in blogs, and communicate using Skype, as well as participate in other interactive speech activities. We will give welcome speeches, create public service announcements, read aloud children's stories, and prepare PowerPoint informative presentations. We will also study persuasive speaking techniques by giving an emotional speech, a testimonial speech, a problem-solution speech, and a sales speech. We will finish the year giving short graduation speeches. Learn these skills and more in our fun-filled Advanced Speech class.

107 HONORS ARGUMENT AND DEBATE (HONOR COURSE) (Full Year) (Grades 11-12)

Prerequisite: Any previous speech class with an A or B average is recommended along with a willingness to prepare debates and write speeches outside of class.

Students scheduling this class should be willing to complete assigned homework promptly, work cooperatively with partners and teams, follow directions, think critically, and share critical thoughts orally and in essay form.

Argument and Debate is a hands on college level course with the University of Pittsburgh=s College in High School Program. Students taking this course may register for three college credits (upon payment of appropriate fees) that may be transferred to other colleges.

Students will learn debate fundamentals of constructing arguments, defending positions, documenting sources, cross-examining opponents, delivering rebuttal speeches, and evaluating debates. Debate formats may include SPAR debate, public forum debate, Barbara Jordan debate, Lincoln-Douglas debate, policy debate, and congressional debate. Students will serve as moderator of a debate. As the year progresses, we will refine our argument, research, cross-examination, rebuttal, and evaluating skills. Data base and Internet research will continue to be an integral part of the course as well as assigned readings and writings. Resolution topics will progress from fun, lighthearted topics to serious contemporary topics of our day. Come and join us as we have fun in Honors Argument and Debate.

123 JOURNALISM PRODUCTION (Full Year) (Grades 10-12)

Prerequisite: B average in English.

This course instructs the student in the fundamentals of journalistic form and style through a step-by-step approach to news writing skills. Students will plan content, take photographs, and write articles, which may appear in the school newspaper. Students are expected to facilitate in the publishing of the school paper, generate revenue through distribution and advertising sales, and have a large part in any decision-making that affects the school paper, The Leopard Tales.

127 PREPARING FOR COLLEGE WRITING (One Semester) (Grades 11-12)

In Preparing for College Writing, the student will use the writing process to write multi-paragraph essays. The modes and strategies used may include example, process-analysis, comparison and contrast, definition, division and classification, causal analysis, argumentation, description, and narration. These essays will be similar to those required of a college freshman. Other strategies may include journal writing, preparing for essay exams, and reviewing grammar and punctuation problems. If you are interested in improving your writing before college, then this course is for you!

134 MYTHOLOGY (One Semester) (Grades 10-12)

Prerequisite: Students should be in grades 10 - 12 and enjoy reading.

What are myths? What is their nature and purpose? What can we learn from myths? If these questions interest you, and you want to learn more about the gods and goddesses, the heroes and monsters, their epics and adventures, then this class is for you. Selected myths will be read from around the world including Greece, Northern Europe, Rome, the Middle East, the British Isles, the Far East, Africa, and the Americas. Meet Zeus, Odin, Romulus and Remus, Thor, King Arthur, Quetzalcoatl, Gilgamesh, and the other fascinating characters that populate the realm of mythology. Come explore the world of myths!

136 DRAMATIC LITERATURE (One Semester) (Grades 10-12)

Dramatic Literature will introduce the student to the world of drama by examining the elements and styles of dramatic writing that distinguish it from other forms of literature. Students will read, interpret, and evaluate some of the classic plays in the western tradition. Students will also view filmed adaptations of the plays to aid understanding and appreciation of the theater.

MEDIA DEPARTMENT

Designed to broaden the student=s educational experience, the Media Telecommunications Department offers courses that will develop a foundation that students can use to come to terms with today=s modern media. Emphasis is

on the practical application of skills learned in the courses. Students are encouraged to get involved and participate in the school=s own media/communications related activities. Media Telecommunications students handle the morning announcements over closed circuit television to the entire school, working behind the scenes with the technical equipment and in front of the camera using broadcast announcing skills. Other activities include broadcasting the afternoon announcements over the school=s public address system, producing a weekly sports highlight show that is televised to the school, handling videotaping duties for the various sports and activities that take place during the year, and working with teachers in the school to provide videotaping, editing, and production services as needed.

143 TV PRODUCTION (One Semester) (Grades 11-12)

This class will cover all technical elements associated with the television production process. Students learn basic and advanced skills relating to camera work, picture composition, editing, switching, lighting, audio devices and controls, titles and graphics, and special effects. This is a hands-on participation class where the students are required to take part in all activities. It is recommended that students be self-motivated, self-disciplined and able to work well with others in a group setting. The ability to work independently is also a plus. This class is designed for Junior and Senior students who are interested in the technical aspects of TV Production.

144 BROADCAST ANNOUNCING (One Semester) (Grades 11-12)

This class will cover all the elements associated with broadcast announcing. It will include radio and television writing, improving your speaking voice, communicating messages, radio announcing techniques, TV announcing techniques, interviewing techniques, sports play-by-play and color commentary, commercial announcing, and announcer/narration techniques. Students will learn how to write for radio and television, including news writing, sports writing, and commercial writing. Emphasis will be placed upon using proper vocal techniques to improve and maintain your voice. Students will learn how to properly mark copy for interpretation. This is a participation class where the students are required to take part in all activities. It is recommended that students be self-motivated, self-disciplined and self-confident. This class is designed for Junior and Senior students who are interested in on-air radio/television broadcasting.

145 MEDIA ETHICS & IMPACT (One Semester) (Grade 11-12)

This class is designed for the serious student who plans to major in Journalism, Broadcast Announcing, Public Relations or Advertising/Marketing in college. It will cover an in-depth examination of ethical issues that face today=s media. In addition to studying all the factors that impact on ethical decisions made on a daily basis by the media, students will be expected to analyze and critique why and how such decisions are reached. Areas to be covered will include Ethical Concepts & Dilemmas in Journalism, the Importance of Professional Ethics and the Responsibility inherent in the adoption of an ethical code, Social Gender and Cultural Issues in the Media, Freedom of the Press, Censorship, Communication Law & Public Perception of the Media. Students will be expected to be active participants in class discussions and will be required to deliver one oral & one written presentation per 9 weeks on a related ethical topic.

146 MASS MEDIA (One Semester) (Grades 10-12)

This is a survey class designed to ground the students in the workings of today=s modern media. It covers the history of the development of the modern media and examines how each medium functions in today=s society. The impact the media has on our society and the individual is also examined so the student can gain a better grasp of how the media affects daily life. Areas covered include Radio, Television, Newspapers, Magazines, Recording Industry, Publishing Industry, Movies, Advertising, and Ethics.

147 ADVANCED TV PRODUCTION (Full Year) (Grades 11-12)

The Department Chairman, based upon student=s active participation in department activities, determines membership in the class. Students must have written authorization from the Department Chairman to take this class.

This class is designed to give credit to the students who are actively involved in the day to day production activities of the department including the morning announcements and the production of the weekly ASports Center@ show. Students who are enrolled in this class already put in a great deal of time and effort and long hours to the department. It is designed for the student who plans to major in TV Production/Media in college.

WORLD LANGUAGE DEPARTMENT

INTRODUCTION

One of the most interesting, unique, and valuable studies available is a world language. Learning to communicate in another language and understanding the people who speak another language and their way of life can be interesting. Each course deals specifically with topics of interest relevant to teenagers today. Because the world language program is youth-oriented, learning a second language is enjoyable and exciting. **BONNE CHANCE AND BUENA SUERTE. (GOOD LUCK!)**

211 FRENCH I

Prerequisite: Students with a good working knowledge of English grammar (85% average) and above average reading skills (90% average).

This course is designed to develop the student's ability in the four basic linguistic skills: listening, speaking, reading and writing. The student is introduced to the vocabulary, the sounds and the grammatical structure of the language and uses these components in simple conversation on a variety of topics (home, school, family, sports, etc.). The student will be expected to respond in French both orally and written to a variety of every day situations.

212 FRENCH II

Prerequisite: An 80% average in French I.

The student continues to develop the four basic linguistic skills. Vocabulary continues to expand. Grammatical structures and new verb forms are systematically introduced. Reading selections are longer and more complex. Students will begin to compose carefully guided paragraphs related to the theme of the lesson. More emphasis is placed on speaking in French.

213 FRENCH III

Prerequisite: An 85% average in French II.

More complex grammatical structures are studied. Attention is paid to increasing the student's control of vocabulary and idioms. Communicative competency is increase . Compositions are longer and more complex. Reading selections are based on French history, geography, literature and culture.

214 FRENCH IV (HONOR COURSE)

Prerequisite: An 85% average in French III.

The student is expected to communicate in French for most class work. All four skill areas become increasingly complex. Emphasis is placed on spontaneous conversation and creative composition. A course project is a requirement.

218 HONORS FRENCH V (HONOR COURSE) (Senior)

Prerequisite: An 85% average in Honors French IV

This course is designed with an emphasis on advanced French grammar, French history, and French literature. Focus will be on listening comprehension, speaking in a forum, writing short essays, research, and the study of French history and various literary works.

SPANISH COURSE SELECTIONS

221 SPANISH I (Freshman)

Prerequisite: Students with a good working knowledge of English grammar (85% average) and above average reading skills (85% average)

This course is designed to develop the student's ability in the four basic skills, listening, speaking, reading, and writing, in their natural order. Emphasis is placed on the mastery of basic sounds, vocabulary and grammar from the basic text, and conversational patterns. Each lesson contains youth-oriented topics. Tapes are used for listening and repeating with accuracy. From the basic text, the students learn about the Hispanic culture. **Students with a good working knowledge of English grammar and above average reading skills will be most successful in this course.**

222 SPANISH II (Sophomore)

Prerequisite: 78% average in Spanish I

This course continues instructional areas begun in Spanish I with guided conversations, added emphasis on grammatical forms, an increase in vocabulary, limited composition (carefully supervised), listening for understanding (tapes), and cultural information from reading selections in the basic text.

223 SPANISH III (Junior)

Prerequisite: 80% average in Spanish II

Emphasis is placed on communicative competency and proficiency, as the students learn thematic vocabulary in context, grammar, conversations and guided composition writing. Each lesson discusses youth-oriented topics. A survey of Hispanic culture, geography, history, and literature enhances interest to the students. Presentation of every day, situational dialogues by the students greatly develop a student's oral and written communication skills. Begin an intriguing video series entitle ADestinos@ which enhances student's language skills and provides additional historical and cultural background of Spain, Argentina, Puerto Rico, and Mexico. A research project is a course requirement.

225 SPANISH II (Freshman)

Prerequisite: 85% average in Spanish I

This course continues instructional areas begun in Spanish I with guided conversations, added emphasis on grammatical forms, an increase in vocabulary, limited composition (carefully supervised), listening for understanding (tapes), and cultural information from reading selections in the basic text.

226 SPANISH III (Sophomore)

Prerequisite: 85% average in Spanish II

Emphasis is placed on communicative competency and proficiency, as the students learn thematic vocabulary in context, grammar, conversations and guided composition writing. Each lesson discusses youth-oriented topics. A survey of Hispanic culture, geography, history, and literature enhances interest to the students. Presentation of every day, situational dialogues by the students greatly develop student's oral and written communication skills. Begin an intriguing video series entitled ADestinos@ which enhances student's language skills and provides additional historical and cultural background of Spain Argentina, Puerto Rico and Mexico. A research project is a course requirement.

227 SPANISH IV (HONOR COURSE) (Junior & Senior)

Prerequisite: 85% average in Spanish III.

The students increase their communicative competency and proficiency through presentation of every day, situational dialogues. Students utilize advanced vocabulary and grammar in context. As they acquire these refined and more creative skills, they further explore the historical, geographical, literary, and cultural aspects of the Spanish language. Continue the second part of the intriguing video series entitled ADestinos@. A research project each semester is a course requirement.

228 HONOR SPANISH V (HONOR COURSE) (Senior)

Prerequisite: 85% average in Honors Spanish IV

This course is designed to provide an extensive overview of Spanish grammar and Spanish literature. It offers advanced grammar study and vocabulary acquisition through communication-based activities, reading, and dialogue and essay writings. Complete the "Destinos" video series. A research project each semester is a course requirement.

MATHEMATICS DEPARTMENT

INTRODUCTION

The Mathematics Department of Belle Vernon Area High School offers the student a variety of courses. These courses cover a wide range of topics and utilize many different approaches, methods and materials and thus accommodate the interests, abilities and goals of all students.

For effective learning, courses in mathematics should be studied in sequence. Listed below are recommended college prep sequences for students who are strong in their math skills and whose goals include college majors which are strongly math oriented. Also listed is a career prep sequence for those students whose abilities and interests are not in the field of math or whose goal is to directly enter the work force.

Before making the final selection of a course the student is urged to discuss choices with parents and guidance counselors. All choices **MUST** be recommended by all current math teachers.

<u>College Prep Sequence A</u>		or	<u>College Prep Sequence B</u>	
Grade 8	Pre-algebra		Grade 8	Algebra I
Grade 9	Algebra I	(314)	Grade 9	Geometry (324)
Grade 10	Geometry	(324)	Grade 10	Algebra II (318)
Grade 11	Algebra II	(318)	Grade 11	Algebra III/Trig (330)
Grade 12	Algebra III/Trig (330)		Grade 12	Intro to Calculus (331) or Statistics (HC) (338)

Accelerated/Honors College Prep Sequence

Grade 8	Algebra I	
Grade 9	Accelerated Geometry	(327)
Grade 10	Accelerated Algebra II	(322)
Grade 11	Pre-Calculus (HC)	(332)
Grade 12	Calculus (HC)	(334)
	or AP Calculus (HC)	(336)

Career Prep Sequence

Grade 8	Pre-algebra	
Grade 9	Algebra I	(314)
Grade 10	Algebra/Geometry Part B	(320)
Grade 11	Algebra/Geometry Part C	(321)
Grade 12	Algebra II	(318)

Electives in Mathematics

Statistics (HC)	(338)	Accounting I	(627)
PSSA Enhancement	(339)*	College Accounting	(632)***

* Grade 11 students who did not score at the proficient level on their 8th grade PSSA math test will be required to take this course. This is a full year course and counts as 1 math credit. Additional information is available on page 34.

*** May be counted as 1 math credit ONLY if Accounting I has not previously been used as a math credit.

084 INTEGRATED MATH I (BY TEACHER RECOMMENDATION ONLY)

Students will be introduced to topics from Algebra (solving equations with signed numbers, solving inequalities, graphing equations, and solving systems of equations by graphing), Geometry (angles, polygons, perimeter, area, volume, the Pythagorean Theorem, and similar triangles), Statistics, and Probability.

085 INTEGRATED MATH II (BY TEACHER RECOMMENDATION ONLY)

Prerequisite: Integrated Math I

This course will expand on topics begun in Integrated Math I. Students will be taught topics from Algebra (solving more difficult equations with signed numbers, graphing equations, and writing equations of lines), Geometry (angles, polygons, perimeter, area, volume, the Pythagorean Theorem, and similar triangles), Statistics, Probability and Trigonometry.

086 INTEGRATED MATH III (BY TEACHER RECOMMENDATION ONLY)

Prerequisite: Integrated Math II

This course continues and expands the learning process begun in Integrated Math II. Topics covered include solving equations and formulas, basic statistics and basic geometry skills.

314 ALGEBRA I (Grade 9)

Prerequisite: Recommend a C average in previous math courses

This is the typical course in algebra for the student who has completed eight years of math through grade eight. The topics covered include: the study of variables; order of operations; solving one-step and two-step equations, including finding equations of lines and/or writing equations of lines, functions and relations; simplifying algebraic expressions, including polynomials, absolute value, inequalities, square roots and radical expressions; drawing and interpreting graphs, stem and leaf and box and whisker plots; use of proportions and percents in solving problems, probability and odds.

316 ALGEBRA B (Grade 9)

This class is **only** offered to students who have taken Algebra I for a full year, but have not met requirements for the class. To meet the requirements for Algebra I you must maintain a minimum of 78% for 3 of 4 nine-week grading periods with a minimum of 78% for a final average. This class will offer an in depth review and enrichment of all Algebra I topics. Placement in this class will be determined by the classroom teacher and reviewed by the math committee.

317 ALGEBRA B (Grades 10, 11, 12)

This class is **only** offered to students who have taken Algebra I for a full year, but have not met requirements for the class. To meet the requirements for Algebra I you must maintain a minimum of 78% for 3 of 4 nine-week grading periods with a minimum of 78% for a final average. This class will offer an in depth review and enrichment of all Algebra I topics. Placement in this class will be determined by the classroom teacher and reviewed by the math committee.

318 ALGEBRA II (Grades 10, 12)

Prerequisite: Recommend Algebra I with C average

The topics covered in depth in this course include the properties and operations of real numbers, one variable equations and inequalities, absolute value sentences, linear equations and graphs, systems of equations, polynomials (simplification of, operations with, factoring of, and solving equations containing), rational expressions (simplification of, operations with, and solving equations containing), matrices, quadratic functions & graphs, the quadratic formula, complex number, probability, & statistics.

319 ALGEBRA II (Grade 11 Only)

The topics covered in depth in this course include the properties and operations of real numbers, one variable equations and inequalities, absolute value sentences, linear equations and graphs, systems of equations, polynomials (simplification of, operations with, factoring of, and solving equations containing), rational expressions (simplification of, operations with, and solving equations containing), matrices, quadratic functions & graphs, the quadratic formula, complex number, probability, & statistics.

320 ALGEBRA /GEOMETRY PART B (Grade 10)

Prerequisite: Algebra/Geometry Part A

This is the second of a three-year course to continue Algebra I and Geometry. Algebra topics include equations and inequalities in one variable, systems of equations and inequalities, and multiplication and factoring of polynomials. Students will write and graph equations of lines given points and/or slopes. Geometry topics include parallel and perpendicular lines, triangles, area, volume, and light triangle trigonometry. Additional topics include probability and analyzing scatter, box and whisker, and stem and leaf plots.

321 ALGEBRA/GEOMETRY PART C (Grade 11)

Prerequisite: Algebra/Geometry Part B

This course will include the following topics: inequalities, rational & irrational radical expressions, quadratic equations, circles, area & volume, right triangles, and coordinate geometry. **NOTE: This is the final year of a 3-year course. Upon completion, students have completed Algebra I and Geometry.**

322 ACCELERATED ALGEBRA II (Grade 10)

Prerequisite: Recommend Accelerated Geometry in Grade 9 with 85% average or better.

This course is the sequential course for those students who completed Acc. Geometry successfully as ninth graders. The topics covered in depth include: properties and operations of real numbers; one variable and absolute value equations and inequalities; algebraic theorems and proofs; linear equations and inequalities and their graphs; systems of equations; functions and relations; polynomials (simplification of, operation with, factoring of, and solving equations containing); rational expressions (simplification of, operation with, and solving equations containing); irrational and complex numbers (simplification of, operations with, and solving equations containing); quadratic equations and their solutions with/without the quadratic formula including analyzing by using the discriminate. These topics each involve practical applications through problem solving.

324 GEOMETRY (Grades 9,10,12)

Prerequisite: To be recommended for this class a student must successfully complete Algebra I. This means the student must maintain a minimum of 78% for 3 out of 4 nine week grading periods, with a minimum of 78% final average. Recommendations will be made by the classroom teacher and reviewed by the math committee.

This course is designed for students to learn through investigating and discovering the ideas of Geometry. Inductive reasoning and activities lead to the formulation of conjectures about geometric principles such as: line and angle relationships, two dimensional figures, properties of figures (triangles, quadrilaterals, other polygons), congruence, circles, transformations and tessellations, areas, the Pythagorean theorem, volumes and similarities.

325 GEOMETRY (Grade 11 Only)

Prerequisite: To be recommended for this class a student must successfully complete Algebra I. This means the student must maintain a minimum of 78% for 3 out of 4 nine week grading periods, with a minimum of 78% final average. Recommendations will be made by the classroom teacher and reviewed by the math committee.

This course is designed for students to learn through investigating and discovering the ideas of Geometry. Inductive reasoning and activities lead to the formulation of conjectures about geometric principles such as: line and angle relationships, two dimensional figures, properties of figures (triangles, quadrilaterals, other polygons), congruence, circles, transformations and tessellations, areas, the Pythagorean theorem, volumes and similarities.

327 ACCELERATED GEOMETRY (Grade 9)

Prerequisite: Recommend Algebra I with a B average

Topics in plane, solid, and coordinate geometry are included in this course. Both inductive and deductive proofs are required. Students are required to delve independently and cooperatively into applications of the geometry learned.

329 ALGEBRA III / TRIGONOMETRY (Grades 11 Only)

Prerequisite: Recommend Algebra II and Geometry with a C average

This course develops a foundation for the study of advanced mathematics. It is recommended that all college bound students take at least this course. Topics covered include coordinate geometry; conic sections, inequalities and their graphs, complex numbers, trigonometric functions, triangle trigonometry; and vectors.

330 ALGEBRA III / TRIGONOMETRY (Grades 12 Only)

Prerequisite: Recommend Algebra II and Geometry with a C average

This course develops a foundation for the study of advanced mathematics. It is recommended that all college bound students take at least this course. Topics covered include coordinate geometry; conic sections, inequalities and their graphs, complex numbers, trigonometric functions, triangle trigonometry; and vectors.

331 INTRO TO CALCULUS (Grade 12)

Prerequisite: Algebra III/Trig with a C average

This course continues topics from Algebra III/Trig including rational exponents, logarithms & exponential functions. It also introduces basic topics to be covered in calculus, such as limits, derivatives, and integrals.

332 PRE-CALCULUS (HONOR COURSE) (Grade 11)

Prerequisite: Algebra I, Honors Algebra II and Honors/Accel. Geometry with a B average

This is a course designed specifically for preparing students to take calculus on either the high school level or the college level. It will be a rigorous, demanding course which will include the study of coordinate geometry, conic sections, inequalities, functions, circle trigonometry, triangle trigonometry, exponents and logarithms, graphs of functions, techniques of equation solving, and an introduction to vectors, sequences, and series.

334 HONORS CALCULUS (HONOR COURSE) (Grade 12)

Prerequisite: Recommend Acc. Algebra I and II, Acc. Geometry, and Pre-Calculus with an 80% average.

This is a rigorous course which will include the study of rate of change of a function, derivatives, application of derivatives, integration, and application of definite integrals, integration methods, and transcendental functions.

336 ADVANCED PLACEMENT CALCULUS (HONOR COURSE) (Grade 12)

Prerequisite: Recommend all Honors/Accelerated math courses through Pre-Calculus with an A average.

This will be a rigorous, demanding course which should prepare the student in the same manner as a college-level calculus course. Students taking this course may obtain college credits through the advanced placement testing program. Topics to be covered include derivatives, anti-derivatives/integration, areas under curves, volumes of polygon regions, exponential functions and logarithms, and differential equations. **(College credit may be earned through the University of Pittsburgh provided payment of fees has been completed.)**

338 STATISTICS (HONOR COURSE) (Full Year) (Grades 11-12)

Prerequisite: Algebra III/Trig or Pre-Calc or concurrent scheduling of these courses.

This course is designed for the college bound student. Topics to be covered are those of the methods and concepts of descriptive statistics and will cover displaying data, frequency distribution, summarizing data, probability theory, applied sampling, estimation, hypothesis testing, correlation, regression analysis and analysis of variance. **(College credit may be earned through the University of Pittsburgh provided payment of fees has been completed.)**

339 PSSA ENHANCEMENT (Full Year) (Grades 11)

This course is based on standardized test practice. Most of the year will be review and practice of PSSA topics and the fourth nine weeks will prepare and review for the SAT, ACT, ASVAB, and other Standardized Tests. This class is mandatory for all juniors based on their 8th grade PSSA Math scores if they were not proficient. Other juniors who are at risk of not being proficient or those seeking to improve their standardized test scores may choose to take this course.

713 PSSA PREP (Humanities Core) (Grade 9) (9 weeks)

Freshmen not taking a foreign language will take this course. This course is a review of the 8th grade PSSA topics and is used to help prepare students for future standardized tests.

627 ACCOUNTING I (Full Year-MATH CREDIT) (Grades 10-12)

This course can be counted as **one (1) math credit**. The first year of accounting deals with fundamental accounting principles and procedures for small and medium-sized business. These principles and procedures will be applied to record-keeping for various types of business. Attention is given to clerical details and forms and emphasis is placed upon the use of accounting records in preparing financial reports to show the results of business operations.

632 COLLEGE ACCOUNTING (HONOR COURSE) (Full Year) (Grades 11-12)

This course may be counted as one (1) math credit only if Accounting I has NOT been previously used as a math credit. Prerequisite: Recommend A or B grade average in Accounting I or A or B grade average in Algebra I and Algebra II.

This one year course includes both basic and advanced fundamentals of the accounting process. The course will include cash management, inventory control, cost analysis, depreciation, asset management, and budgeting. It is an excellent course for the college bound student considering business as a possible college major. College credit can be earned through Westmoreland County Community College (WCCC) as long as a minimum of three additional credits are taken at WCCC after high school graduation.

SCIENCE DEPARTMENT

400 GENERAL BIOLOGY (Full Year) (Grade 9)

Prerequisite: Recommendation by student's most recent science course teacher.

This course is designed for students who have difficulty learning in the regular classroom, help students to understand basic biological principles and their applications to daily living. Areas of study will include microscopic investigation into basic plant and animal cellular structure, basic genetics, environmental problems, pollution problems, the unity of all living things, and the relationship of organisms and environment.

405 BIOLOGY (Full Year) (Grade 9)

In this course, the student will become acquainted with many of the fundamental principles and ideas of biology. Questions such as: what is life; of what are living things composed; how do living things grow; and how do living things reproduce; will be investigated and discussed in this course. This information will bring the student to a closer and deeper understanding of life. Appropriate laboratory experiences will be integrated into the five (5) classes per week schedule.

408 ACCELERATED BIOLOGY (Full Year) (Grade 9)

Prerequisite: 88% Average in 8th grade science and science teacher recommendation (based on reading ability and overall performance).

This course contains the same content as BIOLOGY 405 with selected topics to be covered in greater depth. ACCELERATED BIOLOGY 408 is offered to selected 9th grade students who have demonstrated exceptional performance in the middle school academic program. Enrollment is limited.

420 EARTH AND SPACE SCIENCE (Full Year) (Grade 10)

Earth Science is the study of the earth and the universe around it. This branch of science is made up of four topics; geology (study of minerals, rocks and processes that shape the earth), oceanography, meteorology (study of the atmosphere), and astronomy (study of planets and space). Students will discover what forces shape the world around them. To achieve this goal, classes will investigate topics using their texts and computer activities. The students will also participate in group activities and research topics independently. A research project will be a required assignment for the class.

430 CHEMISTRY (Full Year) (Grade 10-12)

Prerequisite: BIOLOGY or ACCELERATED BIOLOGY and a minimum of 80% course average for ALGEBRA I

General Chemistry is designed for the student who desires a basic knowledge of the fundamentals of chemistry. It is designed as a broad overview of many of the ideas, problems, and relationships in chemistry. It is not designed for a student intending to go into a four year program in science, engineering, or medicine. **Note: A one-day-a-week lab accompanies this course.**

435 ACCELERATED CHEMISTRY (Full Year) (Grades 10-12)

Prerequisite: minimum of 85% course average in BIOLOGY or ACCELERATED BIOLOGY and concurrent ALGEBRA II or GEOMETRY

This course is for tenth grade students who have successfully completed biology and plan on entering a science, engineering, medical or health related field. The course will cover the structure of matter and how it affects the physical and chemical properties of matter. Emphasis will be on theoretical applications, equation writing and problem solving. **Note: A one-day-a-week lab accompanies this course.**

452 PHYSICAL SCIENCE (Full Year) (Grades 11-12)

Prerequisite: Recommendation of current science teacher. This course is not suggested for students that have successfully passed a Chemistry OR Physics course.

This course is designed to serve as a solid foundation for the study of the Physical Sciences, specifically related to the fundamental concepts of Physics, Chemistry, Astronomy, and Earth Science. Students will first be introduced to the history and nature of scientific study, as well as the ways in which to implement effective scientific methods. Major themes that will be investigated throughout the course include metric measurement, force and motion, simple machines, energy and waves, electricity and magnetism, properties and changes in matter, atomic composition, the universe and solar system composition, and ecology of the Biosphere. The overall purpose of this course is to develop inquiry and critical thinking skills within the context of authentic scientific study. Students will be asked to apply and analyze the information that they encounter as it relates to everyday situations. The course grade will be assessed based upon a combination of daily assignments, laboratory exercises, writing prompts, and quizzes and exams.

455 ENVIRONMENTAL SCIENCE (Full Year) (Grades 11-12)

Prerequisite: Successful completion of BIOLOGY, ACCELERATED BIOLOGY or BIOLOGY FOR EVERYDAY LIVING

Environmental Science is the study of the interactions of living organisms with each other and their environment. The main theme of the class is to discuss and debate the four main environmental problems that we now face: resource depletion, pollution/energy generation, overpopulation, and the loss of biodiversity/extinction. This course investigates through a multimedia/student-centered approach the environmental issues that challenge our society.

460 MICROBIOLOGY AND FORENSIC BIOLOGY (Full Year) (Grades 11-12)

Prerequisite: Minimum of 85% course average in either BIOLOGY or ACCELERATED BIOLOGY

This class is developed in two parts. The first semester is Microbiology, which is the study of microorganisms and other agents (bacteria, viruses, protista) that can be seen only with the aid of a microscope. During this semester the course will cover the various microscopic organisms, equipment, and techniques used by microbiologists. In addition, various diseases and uses (food and beverage) of microorganisms will be addressed. The second semester is Forensic Biology, a division of forensic science, which is the examination of biological evidence in the application to legal problems. Areas such as hair, fingerprints, blood, toxicology, and forensic anthropology will be covered. The content in class will be covered in a variety of ways ranging from traditional lecture, to web quests, lab activities, group activities, and diagnosing famous cases.

474 ASTRONOMY (Full Year) (Grades 11-12)

Prerequisite: A minimum of 80% in Algebra I and Chemistry or Accelerated Chemistry

Astronomy is the study of the physical universe. It deals with the structure, motions, and changes in the universe. This course is an introduction to astronomy. Topics to be covered include: the apparent motion of the stars; observing the skies; types of stars; the nuclear reactions that power stars; the life cycles of stars; the structure, properties, and motions of the bodies in the solar system, including the Sun, planets, moons, asteroids, comets, etc; and the structure of the universe; and cosmological theory.

Emphasis will be placed on developing mathematical skills needed in the sciences, such as unit conversions, solving equations, and using scientific notation.

476 PHYSICS (Full Year) (Grades 11–12)

Prerequisite: Minimum 80% course average in each: CHEMISTRY, ALGEBRA I and ALGEBRA II

Recommendation: GEOMETRY with course average of 80%

This is an introductory physics course for those who are not planning to major in a scientific or technical subject in college, but are still interested in studying the patterns of nature. Topics will be selected from mechanics (the study of motion), optics (the study of light), wave theory, as well as other topics. Emphasis in this course is on both theoretical concepts and problem-solving.

Some algebra will be used throughout the year as well as basic geometry and trigonometry to help explain theoretical concepts. Each subject area will include theory problems, demonstrations, and laboratory experiments. In addition, the students may be required to complete a project in which they apply the concepts learned in class. **Note: A one-day-a-week lab accompanies this course.**

478 ANATOMY AND PHYSIOLOGY (Full Year) (Grades 11-12)

Prerequisite: Minimum of 85% course average in either BIOLOGY or ACCELERATED BIOLOGY

This particular aspect of Biology deals with Human Anatomy (the study of the human body structures) and Physiology (how the human body structures work). Throughout the year we will progress through the 12 organ systems by discussing their location, parts and functions and conclude with harm done to these systems due to the use of tobacco, alcohol and drugs. The course includes dissection laboratory time that examines the 12 organ systems.

This course is intended for juniors & seniors who plan to enter a health or medical related field.

480 ORGANIC CHEMISTRY (Full Year) (Grades 11-12)

Prerequisite: Minimum 85% course averages for both Honors/Accelerated Chemistry, and Algebra I

Organic chemistry introduces students to the chemistry of carbon compounds. Emphasis is on reactions of hydrocarbons, alcohols, aldehydes, ketones, carboxylic acids and natural organic compounds. Also covered are biochemistry, coordination chemistry and nuclear chemistry. The reactions, techniques, and procedures learned will be applied in lab exercises integrated into the 5 classes per week schedule at various points during the course. This course is recommended for anyone considering a career in chemistry, biology, medicine, pharmacy, or any health related field.

484 HONORS PHYSICS (HONORS COURSE) (Full Year) (Grades 11-12)

Prerequisite: Minimum 85% course average in each: HONORS/ACCEL. CHEMISTRY, ALGEBRA I and ALGEBRA II **Recommendation: Completed ALGEBRA III/TRIG or at minimum, concurrent ALGEBRA III/TRIG**

This is an introductory physics course for those students planning to pursue a technical major in college such as chemistry, physics, engineering, or medicine. It will cover various topics in physics such as motion, heat, waves, optics, nuclear physics, or relativity with strong emphasis on both theoretical concepts and problem-solving. Extensive use of mathematics is made, including the quadratic formula, interpreting graphs, simultaneous equations, the Pythagorean theorem, trig, scientific notation, and other math skills. Each subject area will include theory, demonstrations, and laboratory experiments. In addition, each nine weeks the students may be required to complete a project in which they apply the concepts learned in class. **Note: A one-day-a-week lab accompanies this course.**

486 ADVANCED PLACEMENT BIOLOGY (HONORS COURSE) (Full Year) (Grades 11-12)

Prerequisite: Minimum 90% course average in each HON/ACCEL. CHEMISTRY and BIOLOGY or

ACCELERATED BIOLOGY

Advanced Placement Biology provides an advanced science course taught on a college entry level. The basic text is a college freshman text. Course topics include: Biological chemistry; Cell structure and function; Molecular genetics; Heredity; Evolution; Plants; Animals; and Ecology. Laboratory activities include: Mitosis and Meiosis; Plant Pigments and Photosynthesis; Cell Respiration; Transpiration; Colony Transformation, Electrophoresis, Insect & Leaf collection, 4 independent studies - students design and conduct their own experiments. **Requirement: A written & oral report on current event issue in Biology will also be done by the student in the second semester. Note: Two-days-a-week lab accompanies this course.**

488 ADVANCED PLACEMENT CHEMISTRY (HONORS COURSE) (Full Year) (Grade 12)

Prerequisite: recommended 90% course average in both HONORS CHEMISTRY and HONORS PHYSICS

This course is intended for students who will need chemistry in college. It covers in more depth the basic chemical principles learned in Honors Chemistry and introduces students to more advanced chemical concepts. Emphasis is on atomic structure, molecular structure, chemical equilibrium, solutions, acids and bases, kinetics, thermodynamics, and electrochemistry. In the laboratory, emphasis is on qualitative and quantitative analysis. Laboratory reports are required for every experiment. The class will meet seven periods a week (two double periods each week). Advanced placement college credit may be obtained from this course for those qualifying through the advanced placement testing program. **Note: A two-days-a-week lab accompanies this course.**

492 PHYSICS II (HONORS COURSE) (Full Year) (Grade 12)

Prerequisite: Instructor approval, a concurrent calculus class, and a minimum 85% course average in each: HONORS PHYSICS, ALGEBRA III/TRIG or PRE-CALCULUS.

Note: PHYSICS 470 cannot be substituted as a prerequisite for PHYSICS II 492

This is the second year of mathematical physics for those who will be taking a technical major in college and want to prepare as thoroughly as possible. The emphasis in this course will be on classical electromagnetic field theory, including the behavior of charges and magnets, electric and magnetic fields, Maxwell's equations of electromagnetism, and electromagnetic waves. Advanced mathematical methods such as calculus, matrices, vector multiplication, and unit vectors will be used. Strong emphasis is placed on solving a variety of challenging problems. A two-days-a-week lab accompanies this course, and students will have the opportunity to carry out laboratory investigations such as measuring the charge and mass of the electron, as well as learning basic electronics, soldering, and circuit assembly. **Note: A two-days-a-week lab accompanies this course.**

SOCIAL STUDIES DEPARTMENT

REQUIREMENTS

Four credits of Social Studies are required of all students including one credit in Civics, one credit in World Cultures, and one credit in American Cultures. Seniors are required to select one credit from the electives.

510 CIVICS/PENNSYLVANIA HISTORY (Full Year) (Requirement - Grade 9)

Pennsylvania History is a course required of all ninth grade students in the Belle Vernon Area School District. It will be taught in conjunction with a course in American Civics. Part of becoming a responsible member of a democratic society is the acquisition of an awareness and appreciation of those living things that created that society. It is the goal of Pennsylvania History and American Civics to lay the foundation of that awareness and appreciation.

521 WORLD CULTURE (Full Year) (Requirement - Grade 10)

World Culture surveys man's history from earliest times to the present. It is necessary to comprehend social trends and problems by delving into the past in order to interpret the present and predict the future. The course is designed to expose students to different faiths, lifestyles, work ways, and technologies. Students must understand and respect the nature of mankind so they can develop into responsible citizens.

531 AMERICAN CULTURE (Full Year) (Requirement - Grade 11)

The twentieth century finds the United States occupying the role of the world leader in a growing global society. This course will present the student with a clear picture of growth of America and its democratic process. Through the study of American Culture the student will increase his skills to critically evaluate various sources of information and follow a logical route to form opinions and conclusions. Concentrated areas of study will include: The Progressive Era; The Two World Wars; The Golden Twenties; The New Deal; The New Frontier; The Great Society; and The Cold War: and Contemporary times.

534 GLOBAL GEOGRAPHY (One Semester) (Grades 11-12)

Students will grasp the connection between environments and events - between regions and cultures. This course provides extensive coverage of both human and physical geography and provides students with the global perspective, critical thinking and geographical skills needed to understand the inter-relatedness between peoples and places. United States geography will be stressed in the second semester. All regions of the United States will be studied.

541 AMERICAN GOVERNMENT (One Semester) (Grade 12)

The United States= system of democratic government has been placed under great stress because of a fast paced technological society and because of our country=s role as a world leader. It is therefore necessary to develop citizens with the knowledge and capacity to make worthwhile contributions as active participants in government. Because some students do not continue their education beyond twelfth grade, it is the responsibility of the senior high school to help the students develop these characteristics. Building upon the foundation of knowledge gained in American history class, the students will gain an in-depth understanding of the working of our governmental system and the individual=s responsibility to that system. Skills such as objective reasoning, tolerance of different views, compromise, and research methodology will be stressed.

542 PSYCHOLOGY (One Semester) (Grade 12 Only)

This course is an overview of major topics in modern psychology, the scientific study of behavior, and mental processes. As a first course in the discipline of psychology, it introduces some of the fundamental concepts, principles, and theories with a consideration for the complexity of human behavior. Topics discussed may include research methods, physiological foundations of behavior, growth and development, learning and memory, motivation and emotions, personality, stress and adjustment, social interactions, and psychological disorders and treatment approaches.

543 SOCIOLOGY (One Semester) (Grade 12 Only)

Prerequisite: Must have recommendation of junior social studies teacher.

Sociology is the science of the structure and functioning of human groups. Taking culture concepts and social instructions, it explores the context, methodology, and inter-relationships of those studies seeking the explain man=s social behavior in the modern world. A collage and book report are required.

544 A. P. EUROPEAN HISTORY (HONOR COURSE) (Full Year) (Grade 12 Only)

Prerequisite: Must have AB@ average in A. P. United States History.

This Advanced Placement course is a study of European history from 1450 (the Renaissance) to the fall of the Berlin Wall. An emphasis will be placed on intellectual, cultural, social and economic history as well as the events in the political-diplomatic spheres. There are extensive reading assignments, assigned papers, and formal tests in a seminar classroom setting.

545 A. P. UNITED STATES HISTORY (HONOR COURSE) (Full Year) (Grade 11-12)

Prerequisite: Must have recommendation of Junior Social Studies Teacher or AP Teacher.

Advanced Placement U.S. History is offered to high school junior and seniors. It is recommended that students have at least 90 percent in their previous social studies courses. This course will fulfill your senior year social studies requirement. It will also take the place of American Cultures if you are a junior.

A.P. U. S. History is a survey of American History from the age of discovery and exploration to the present. Solid reading and writing skills, along with a willingness to devote considerable time and effort are necessary to succeed. Emphasis is placed on critical and evaluative thinking skills, essay writing, and interpretation of original documents. Student objectives include the ability to:

- *master a broad body of historic knowledge
- *demonstrate an understanding of historic chronology
- *use historic data to support an argument or position
- *interpret and apply data from original documents including, cartoons, graphs, letters, etc.
- *effectively use analytical skills of cause and effect, compare and contrast

546 CONSUMER EDUCATION AND ECONOMICS (Full Year) (Grades 11-12)

This year long course is designed to give the students a better understanding of business in the U.S. economy, as well as an understanding of consumer issues. Topics include consumer protection, the U.S. economic system, income taxation, financial planning, banking, consumer credit, savings, investment and insurance. This course will count as a Social Studies credit while being taught by the Business Department.

547 LAW (One Semester) (Grade 12)

This course examines American Government, the American legal system and basic legal concepts. The rights, freedoms and responsibilities of American citizenship will be emphasized. Topics include the Bill of Rights, crimes and punishments, juvenile courts, torts, problems in society and trial procedures. A collage and a research paper are required.

548 CONSUMER SKILLS (One Semester) (Grades 11 - 12)

This one semester course will give students a better understanding of consumer issues and personal finance. Topics include consumer protection, income taxation, financial planning, banking, consumer credit, savings and insurance. This course will count as a Social Studies credit while being taught by the Business Department. It is only for those students that do not take or have not taken course #546 Consumer Education.

COMPUTER AND BUSINESS TECHNOLOGY DEPARTMENT

Requirements are as follows:

Graduation Year 2011 & 2012: **Course 645 Computer Applications (required as Freshmen)**
 Course 647 Word 2007
 One other computer technology ½ credit elective

Graduation Year 2013: **Course 645 Computer Applications (required as Freshmen)**
 Course 618 Personal Finance (required as Sophomores)
 One other computer technology ½ credit elective

Beginning Grad Year 2014: **Course 645 Freshmen Technology Seminar (req. as Freshmen)**
 Course 648 Freshmen Word 2007 (required as Freshmen)
 Course 618 Personal Finance (required as sophomores)
 One other computer technology ½ credit elective

COURSE OFFERINGS – COMPUTER TECHNOLOGY

SOFTWARE COURSES OFFERED (for elective):

Excel 2007 (Spreadsheets)
PowerPoint 2007 (Slideshow Presentations)
Access 2007 (Database)
InDesign CS3 (Desktop Publishing)

WEB PAGE DEVELOPMENT:

Home Page Development
Advanced Homepage Development
Web Design Using Dreamweaver
Web Animation Using Flash and Fireworks

PROGRAMMING:

QBASIC – Introduction to Programming Logic
Advanced BASIC Programming
Introduction to Computer Programming Using JAVA

COURSE OFFERINGS – BUSINESS TECHNOLOGY

ACCOUNTING:

Accounting I
Accounting II/Computerized Accounting
College Accounting (College in High School Opportunity) (**Honors**)

BUSINESS AND CONSUMER EDUCATION:

Consumer Skills
Consumer Education and Economics
Entrepreneurship

OTHER ELECTIVES:

Speedwriting
Yearbook I
Yearbook II

BUSINESS TECHNOLOGY

060 BASIC POWERPOINT (One Semester) (Grade 11 only)

This one semester course will introduce students to the presentation software, PowerPoint. Students will learn to apply the features of this program to design, create and edit quality slide presentations. The pace of the class will be adapted to the needs of each individual student. Special focus will be placed on students completing a required senior project.

546 CONSUMER EDUCATION AND ECONOMICS (Full Year) (Grades 11-12)
(1 *SOCIAL STUDIES CREDIT*)

This year long course is designed to give the students a better understanding of business in the U.S. economy, as well as an understanding of consumer issues. Topics include consumer protection, the U.S. economic system, income taxation, financial planning, banking, consumer credit, savings, investment, and insurance. This course will count as a **Social Studies credit** while being taught by the Business Dept.

548 CONSUMER SKILLS (One Semester) (Grades 11-12)
(0.5 *SOCIAL STUDIES CREDIT*)

This one semester course will give students a better understanding of consumer issues and personal finance. Topics include consumer protection, income taxation, financial planning, banking, consumer credit, savings and insurance. This course will count as a **Social Studies credit** while being taught by the Business Department. It is only for those students that do not take or have not taken course #546 Consumer Education.

616 ENTREPRENEURSHIP (One Semester) (Grades 10-12)

This one-semester course is designed to give an introduction to entrepreneurship and to examine the steps involved in starting a new business. Students will determine if they have what it takes to be a successful entrepreneur. Through a business plan project, students will develop plans for a small business of their own. This is an excellent course for students who plan to earn a 2 or 4 year degree in Business Administration or who plan to start their own business.

618 PERSONAL FINANCE (One Semester) (**Required for all Sophomores**)

While focusing on the student's role as a citizen, student, family member, consumer, and active participant in the business world, this course will inform students of their various financial responsibilities, and provide opportunities for self-awareness, expression, and satisfaction in a highly technical and competitive society. Students will discover new ways to maximize their earning potential, develop strategies for managing their resources, explore skills for the wise use of credit, and gain insight into the different ways of investing money. Students will also be introduced to Excel 2007 as they learn to create budgets and manage finances. When available, students will be engaging in a Career Mentoring program.

623 SPEEDWRITING (One Semester) (Grades 10-12)

Are you going to College? Do you wish you could take notes as fast as your teachers lecture? Learn to write faster and more easily using a shortened version of the longhand alphabet you already know. Develop skills useful for taking notes and preparing reports. Learn to take notes in classes and to record instructions quickly and accurately. You will learn a note-taking system based on the longhand alphabet. The note-taking shortcuts, abbreviations, punctuation review and listening skills you learn will be useful in high school, college, technical school or on the job. **See you next year!@**

627 ACCOUNTING I (Full Year-**MATH CREDIT**) (Grades 10-12)

This course can be counted as **one (1) math credit**. The first year of accounting deals with fundamental accounting principles and procedures for small and medium-sized business. These principles and procedures will be applied to record-keeping for various types of business. Attention is given to clerical details and forms and emphasis is placed upon the use of accounting records in preparing financial reports to show the results of business operations.

631 ACCOUNTING II/COMPUTERIZED ACCOUNTING (One Semester) (Grades 11-12)

Prerequisite: Recommend at least AC@ average in Accounting I or B average in College Accounting

This semester course is designed to further develop the student=s accounting skills by completing the accounting cycle for a corporation. Computerized accounting will be used extensively so that students can transfer their skills to a computerized accounting environment. Topics will include inventory control, depreciation, dividend distribution, accrued revenue and expenses, notes and interest.

632 COLLEGE ACCOUNTING (HONOR COURSE) (Full Year) (Grades 11-12)

This course may be counted as one (1) math credit only if Accounting I has NOT been previously used as a math credit. Prerequisite: Recommend A or B grade average in Accounting I or an A or B grade average in Algebra I and Algebra II.

This one year course includes both basic and advanced fundamentals of the accounting process. The course will include cash management, inventory control, cost analysis, depreciation, asset management, and budgeting. It is an excellent course for the college bound student considering business as a possible college major. College credit can be earned through Westmoreland County Community College (WCCC) as long as a minimum of three additional credits are taken at WCCC after high school graduation.

672 YEARBOOK I (One Semester) (Grades 11-12)

Prerequisite: Desk Top Publishing - In-design and/or instructor approval.

This course is designed for students who wish to work on the Belle Vernon Area High School Yearbook B The Leopard Profile. Basic and advanced elements of InDesign will be applied. Emphasis will focus on creative writing and editing, computer skills, layout design, photography, public relations, advertising, and financial management. Each student will be required to produce a number of completed pages including writing articles and captions, designing computer layouts, correcting proofs, and selecting and/or taking photographs. Editor positions are available for students enrolled in this course.

673 YEARBOOK II (One Semester) (Grade 12)

Prerequisite: Yearbook I

This course is designed for Editors and Assistant Editors who have successfully completed Yearbook I. Advanced elements of InDesign will be applied. Each student will be required to produce completed yearbook pages including writing articles and captions, designing computer layouts, correcting proofs, and selecting and/or taking photographs.

COMPUTER TECHNOLOGY

633 INTRO TO QBASIC PROGRAMMING (One Semester) (Grades 10-12)

Prerequisite: Passing grade in Computer Applications (Freshmen Tech. Seminar)

Introduction to QBASIC Programming is a one semester course that will introduce the student to the fundamentals of writing code to program a computer. Problem solving skills and logical thinking will be taught. It is recommended that the student have a AC@ average in basic math and algebra to be successful in this class.

634 ADVANCED BASIC PROGRAMMING (One Semester) (Grades 10-12)

Prerequisite: AC@ average or above in Q Basic

Advanced Basic is a one semester course that will continue to explore cosign in the QBASIC language. Additional features include Sub Routines, Sequential Files, Sequential Data Files, Arrays, Graphics and Gaming Basics.

644 INTRO TO COMPUTER PROGRAMMING USING JAVA (Full Year) (Grades 11-12)
(Honors Course) College in High School

Prerequisite: AC@ average or above in C++ and Teacher recommendation required.

This is a first course in computer science programming. It is recommended for students intending to major in computer science who do not have the required background for CS0401 at the University of Pittsburgh. The focus of the course is on problem analysis and the development of algorithms and computer programs in a modern high-level language.

This course will allow the student to **earn 3 college credits** from the University of Pittsburgh and is the equivalent of CS 0007. If the student elects to earn the 3 credits, there will be a fee of \$175.00 per student. (This fee is NOT A REQUIREMENT for taking this course.) Upon successful completion of the course, the students will receive 3 college credits and a grade on a regular PITT transcript (IF the fee has been paid). These credits may be transferred to other colleges.

645 FRESHMAN TECHNOLOGY SEMINAR (One Semester) **(Required for all Freshmen)**

This course introduces and develops a variety of computer related skills that will aid in high school coursework as well as apply in life. Through the use of Keys2Work, a career-based skill improvement and certification program, students will identify career interests, increase academic core foundation skills, and complete Career Plans of Study. Students will be instructed on accessing and use of various features of a personal Edline account (a student record keeping course tool). Additionally, students will review proper keyboarding technique, gain a basic introduction to computer applications such as PowerPoint, Web page creation, as well as Web 2.0 tools such as podcasting, wikis, blogging, and many other technology advances.

647 WORD 2007-WORD PROCESSING (One Semester) **(Graduation Requirement)** (Gr. 11-12)

This course expands the basic word processing skills. Students will receive additional hands-on training in more complex phases of word processing including creating, editing, formatting and printing documents. Special features of Word will also be introduced such as creating tables, columns, headers, footers, graphs and charts, using Wizards and templates, and incorporating pictures and shapes into documents. This software is one of the most popular word processing packages available today.

648 FRESHMAN WORD 2007 (One Semester) **(Required for all Freshmen)**

This one semester course will introduce students to Microsoft Word 2007. This course will include Word basics, basic editing, formatting text, working with graphics, working with documents, MLA reports, and creating a working resume. Special features of Word will also be introduced such as creating tables, columns, headers, footers, graphs and charts, using Wizards and templates, and incorporating pictures and shapes into documents. Students will continue to access Keys2Work applications as well as Study Island applications that support individualized academic needs.

649 EXCEL 2007-SPREADSHEETS (One Semester) (Grades 10-12)

Prerequisite: Recommend a AC@ average in Computer Applications (Keyboarding)

This one semester course will introduce students to the popular spreadsheet program, Excel. Students will learn to apply the features of the software to create professional worksheets, as well as charts, graphics, and other applications. Knowledge of this software is highly recommended in many professions and is also being required by many colleges and universities.

650 POWERPOINT 2007-SLIDE SHOW PRESENTATION (One Semester) (Grades 10-12)

Prerequisite: Recommend a AC@ average in Computer Applications (Keyboarding)

This one semester course will introduce students to the presentation software, PowerPoint. Students will learn to

apply the features of the program to design, create, and edit professional quality presentations. This software is widely used in the business world.

651 ACCESS 2007-DATABASE (One Semester) (Grades 10-12)

Prerequisite: AC@ average in Computer App. (Keyboarding) or Word Processing

Microsoft Access 2007 is one of the most popular database software applications used in the professional and educational environment. Database creation and management skills are used for personal, educational, and professional organization of information. This course is designed to teach students how to create tables, forms, and reports. They will also learn to store, sort, and retrieve data.

653 HOME PAGE DEVELOPMENT (One Semester) (Grades 10-12)

Students will learn terminology, ethical use, and legal use of the Internet. Proper research techniques using the Internet will also be applied. Home Page Development is designed to teach students to analyze, evaluate, and create web sites. They will use Microsoft Word text editor, HTML code, Microsoft Front Page, and JavaScript to create pages for both personal and school use.

655 ADVANCED HOME PAGE DEVELOPMENT (One Semester) (Grade 10-12)

Prerequisite: AC@ average in Home Page Development and Teacher Approval

In this advanced web design course, students will create new pages and update the existing pages of the Belle Vernon Area High School Website. In addition, they will learn to implement features of the digital camera for high quality photography. Students will become familiar with various software packages such as Microsoft FrontPage, Adobe Photoshop, and Flash. Students will also gain skills to become independent learners by researching topics and reporting findings to the group.

660 WEB DESIGN IN DREAMWEAVER (One Semester) (Grades 10-12)

Dreamweaver is web design software that lets you create dynamic, interactive Web pages containing text, images, hyperlinks, animation, sounds, video and other elements. You will learn to use Dreamweaver to create individual Web pages and complex Web sites consisting of many pages.

662 WEB ANIMATION USING FLASH AND FIREWORKS (One Semester) (Grades 10-12)

Flash is a program that allows you to create interactive experiences, primarily by using animation. It also has excellent drawing tools and tools for creating interactive controls, such as navigation buttons and menus. In the past few years, Flash has become the standard for both professional and casual Web developers. It provides high-impact experiences for the user, turning sites into dynamic, interactive experiences. Working in conjunction with Flash, Fireworks is a graphics program intended specifically for the Web. You can create and edit files and then add animation and JavaScript-enabled interactivity to those files.

671 INDESIGN-DESK TOP PUBLISHING (One Semester) (Grades 10-12)

This course is designed to create graphic publications using the Adobe software, In-Design CS3. This software takes page design to a new level with extraordinary production power, creative freedom and innovative cross-media support. This software is integrated with Adobe Photoshop, Illustrator, and Acrobat software. This is an excellent course for anyone interested in graphic design. If you wish to be on the yearbook staff you are strongly encouraged to schedule this class

MUSIC DEPARTMENT

700 SYMPHONIC BAND (Full Year) (Grades 10-12)

The Symphonic Band consists of students in grades 10 through 12. Symphonic Band students will perform music at

the medium to advanced level and will include both new and old compositions from the wind band repertoire. Focal points for this ensemble will include the following: proper instrument techniques, fingerings for each instrument, tone production, development of range, basic music theory, playing in both major and minor scales, and possibly modes. There will be playing exams conducted during the grading period of this ensemble, in addition to listening activities and written assignments. Additionally, student lessons will be available before and after the school day, and can be in either individual or group sessions. Students will be expected to practice their instruments at home and must be available for evening concerts and performances. Dress rehearsals will be held the afternoon/evening before the concert in the High School auditorium. Additional rehearsals may be scheduled on an “as needed” basis once a performance draws near. **Note: All instrumental students in grades 10 through 12 who participate in the Belle Vernon Area Marching Band are required to participate in Symphonic Band, as this ensemble is a prerequisite for Marching Band. The one exception to this is students who attend Central Westmoreland Career & Technical Center.**

701 CONCERT BAND (Full Year) (Grade 9)

The Concert Band consists of students in the grade 9. Repertoire for Concert Band will be performed at the easy to medium level and will include both new and old compositions from the wind band repertoire. Focal points for this ensemble will include the following: proper instrument techniques, fingerings for each instrument, tone production, development of range, basic music theory, and playing both major and minor scales, and possibly modes. There will be playing exams conducted during the grading period of this ensemble, in addition to listening activities and written assignments. Additionally, student lessons will be available before and after the school day, and can be in either an individual or group session. Students will be expected to practice their instruments at home and must be available for evening concerts and performances. Additional rehearsals may be scheduled on an “as needed” basis once a performance draws near. **Note: All instrumental students in grade 9 who participate in the Belle Vernon Area Marching Band are required to participate in Symphonic Band, as this ensemble is a prerequisite for Marching Band. The one exception to this is students who attend Central Westmoreland Career & Technical Center.**

702 CONCERT CHOIR (One Year) (Grades 9-12)

The Concert Choir is designed to meet the needs and interests of everyone who likes to sing. No previous musical training is needed, just an earnest desire to contribute to a fine musical group. All forms and styles of music will be taught, from early music to contemporary, including pop music and Broadway songs. Students must be available for evening performances.

703 CLASS PIANO 1 (Semester Course) (Grades 9-12)

This class is designed for the BEGINNING piano student. No background in music is necessary. Students will sit at their own synthesizers and learn how to play the piano. Group lessons as well as individual, self-paced work will take place. Students will learn the fundamentals of music and, week by week, will see improvement in their piano playing ability. This class is NOT for students who have taken private piano lessons for more than one year.

704 CLASS PIANO 2 (Semester Course) (Grades 9-12)

Prerequisite: Class Piano 1 and the completion of lesson book 1 by the end of C. P. I.

This course is a continuation of **Class Piano 1**. Students will continue at their own pace to study piano lessons.

705 JAZZ ENSEMBLE (Grades 9-12) (SPRING SEMESTER ONLY)

Prerequisite: By Director’s recommendation only.

Instrumental students who perform on Alto Saxophone, Tenor Saxophone, Baritone Saxophone, Trumpet, Trombone, Piano, Guitar, Bass Guitar, and Drums/Percussion are eligible to participate in the Jazz Ensemble. Students will perform music in the following styles: Jazz, Swing, Funk, Rock, and Latin. This class will also focus on the use of jazz vocabulary, improvisation, and ensemble playing. Students will be expected to practice their instruments at home and must

be available for evening concerts and performances. **Performing in the Jazz Ensemble will be by your Director's recommendation only.**

707 INTRODUCTION TO MUSIC THEORY (Semester) (Grades 9-12)

This course begins with the very basics or beginnings of music and is, therefore, welcoming to any student who may or may not have musical background. Focal points of this class examine the fundamentals of music and will include: learning to draw a staff, clefs, learning to read and identify pitches in treble and bass clef, writing music, understanding rhythms and rhythmic values, time signatures, major and minor scales, music vocabulary, Solfege syllables/ear training/rhythmic dictation, intervals, and chord building. The only prerequisite for this class is a desire to learn about music and its elements in a relaxed environment. Listening examples will be applied during the course of the semester.

708 ADVANCED MUSIC THEORY (Semester) (Grades 10-12)

Prerequisite: An AA@ or AB@ average in Introduction to Music Theory.

This course is a continuation of Intro to Music Theory. Adv. Music Theory students will study advanced musical concepts like chord progressions, voice leading, inversions, modulations, cadences, and chromaticism. Students will analyze music, listen to applicable musical examples, and write a harmonic musical composition. Students will acquire an understanding of how tonal music is composed.

710 HUMANITIES CORE: MUSIC APPRECIATION (9 Weeks) (Grade 9)

(Schedule this course if not scheduling French or Spanish)

The objective of this class will be for the student to develop an appreciation of music and its role in culture and society. Students will be exposed to music from the Renaissance period through the music of today, such as Classic Rock and Metal, through lectures and aural listening.

714 MUSICAL THEATER 1 (Semester) (Grades 10-12)

This course is designed for any student who has the slightest interest in drama. Topics to be discussed will be monologues/dialogues, auditions, script work, scene study, stage direction, theater lighting and sound, costumes, choreography and other relevant issues. No theater experience is necessary to take this class; only a sincere desire to learn about that art and craft of acting. Students will be asked to stand in front of the class to do solo or group improvisations. Students in this class will have the opportunity to be involved in the fall play if they choose to do so.

715 MUSICAL THEATER 2 (Semester Course) (Grades 10-12)

Prerequisite: Musical Theater 1.

This course is designed as a continuation of **Musical Theater 1**. Students in this class will have the opportunity to be involved in the high school musical if they choose to do so.

FAMILY AND CONSUMER SCIENCE

To fulfill an elective requirement all students must schedule either (726) Family Living or (728) Child Care before graduation.

711 ADVENTURES IN HOME ECONOMICS (Full Year) (Grades 9-12)

Designed for the student who is interested in home economics, you will experience a variety of subjects and activities:

Child Care - Investigate the first few years of a child's life to discover if you have an interest in exploring future options in child care and development.

Foods and Nutrition - Learn how to develop healthy eating habits and how to prepare food in a healthy way. Food preparation focuses on basic cooking techniques and principles. A microwave unit is also included.

Clothing - Create a craft. Learn to successfully operate a sewing machine and construct a simple garment.

Human Development - Each of us is unique. This unit is based on discussion and is structured to help you better understand yourself so that you may better interact in the world around you.

Interior Design - Let your creative talents flow by designing a bedroom to scale and in dimension.

712 COOKING BASICS (One Semester) (Grades 10-12)

Faced with the changing needs of society today, families must develop various ways to incorporate meal planning, food preparation, and nutrition into their busy lifestyles. This course will introduce the student to the basic fundamental principles of the kitchen, equipment, safety, cooking methods, basic nutrition, food preparation techniques, and dining etiquette.

721 CREATIVE COOKING AND STITCHING (Full Year) (Grades 10-12)

Creative Cooking: Allow your creative abilities and talents to flow as you try your hand at garnishing fruits and vegetables, cake decorating and candy making. Learn to prepare crepes and appetizers. This course offers a fresh approach to food preparation. If you're tired of preparing the same old foods the same old way come and join us.

Creative stitching is designed to develop sewing skills by way of crafts and garments. Using a demonstration and lab approach, together we will create exciting projects. The feeling of pride you get from your accomplishments is quite rewarding.

722 PASTRIES AND SEWING CRAFTS (Full Year) (Grades 10-12)

Pastries: Learn about pastry making, different types of cakes, cookies, and candies. This course enables the dessert minded student to become skilled in pastry, cake, cookie, and candy making. This course is ideal for those students who may be interested in becoming a pastry chef or who would like to entertain successfully.

Sewing Crafts: Gain an understanding of sewing principles through creations of exciting crafts and wearable accessories.

723 THE WORLD OF FOOD (Full Year) (Grade 11-12)

Prerequisite: *Either* Cooking Basics, Pastries, or Creative Cooking

This hands-on course is designed for the student who wishes to be self-sufficient in the kitchen or for someone considering a food related career. Basic cooking techniques and principles are an important part of this course. Using the food pyramid as a guide, emphasis is placed on nutrition, meal planning and food preparation. This is a great fundamental course for someone seriously interested in the study of food.

724 FASHIONS (One Semester) (Grades 10-12)

Explore the possibility of a career in the fashion industry! Why did you choose the clothing you have on today? Learn the answer to this question as well as others about the Afashion world@ by exploring fashion design, illustration, & color analysis.

725 ADVANCED STITCHING (One Semester) (Grades 10-12)

Prerequisite: *Either Adventures In Home Ec. Or Creative Stitching*

Your clothing can be unique! Stay in style and add your personal touch to your wardrobe by creating fashions that express you and your personality. Learn to apply the elements of design as you develop your sewing skills.

726 FAMILY LIVING (One Semester) (Grades 10-12)

The skills learned in this class will help you face the complex and changing world. The subject matter covered in this course will help you make intelligent decisions about your life, family, and relationships with others. When planning for our mock wedding, we discuss love, marriage, and its customs, both past and present. You can become a good consumer by learning to manage your money and available resources. This is a class for learning who you are and what you=re all about.

727 HOUSING AND INTERIOR DESIGN (One Semester) (Grades 11-12)

Enjoy learning the fundamentals of housing and interior design. A field trip to investigate local architecture helps to clarify details. After learning the elements and principles of design, you will construct a "dream house" and floor plan to demonstrate your skills in decorating.

728 CHILD CARE (One Semester) (Grades 10-12)

Explore child development beginning with conception continuing through pregnancy and child birth. ABecome a parent@ and find out whether you are ready to cope with the responsibilities of parenting at this point in your life. Learn about the development of infants, toddlers, and preschoolers through hands on experience.

729 PRE-SCHOOL PRACTICAL EXPERIENCE I (P.S.P.E.I)* (One Semester) (Grades 11-12)

Prerequisite: Child Care with an AA@ or higher and approval of instructor. Only those students with above average attendance will be accepted.

This course is for those who love working with children and may be considering a career in teaching, child care, or pediatric medicine. The students actually plan, prepare and conduct a pre-school for three and four year ole children.

730 PRE-SCHOOL PRACTICAL EXPERIENCE II (P.S.P.E II)* (One Semester) (Grade 12)

Prerequisite: P. S. P. E I passed with an AA@ average AND approval of instructor. Only those students with above average attendance will be accepted.

This class enables you to continue your study of the developing child. Using such techniques as teacher observations and age appropriate lesson plans you will develop several portfolios for career planning, teaching a unit and a scrapbook for each preschool student. This is a class for those students willing to put time and effort into their class.

735/736 ADVANCED PRESCHOOL I AND II*

Prerequisite: By Teacher approval only. Only those students with above average attendance will be accepted.

These classes will expand on Preschool Practical Experience I and II, adding to the previous year=s portfolios.

***NOTE: Any student taking the preschool classes will be on a two week probationary period. This is a class where you must be willing to work hard and maintain above average attendance. If you choose not to adhere to these conditions, you will be dismissed from the class.**

737 HUMAN DEVELOPMENT (One Semester) (Grade 12 Only)

How do men and women differ? Do children learn as adults? Can apes learn sign language? This course tries to answer these questions and many others; providing a comprehensive overview of the study of thought and behavior. It explores topics such as perception, communication, learning, memory, decision-making, and many more. We will look at how these aspects of the mind develop in children, how they differ across people, how they are wired in the brain, and how they break down due to illness or injury. This class is ideal for the college bound student and will aid in college psychology courses.

TECHNOLOGY EDUCATION DEPARTMENT

The courses associated with this department are technical in nature and are elective in selection. They provide sound educational experiences by integrating elements from many subject areas, while applying them to exciting hands-on activities. This promotes learning by way of our Ahands-on/minds-on@ philosophy associated with technology education. The purpose of the entire Technology Education Department is to foster the development of a strong foundation in the skills, knowledge, and attitudes that are necessary to prepare students to interact with our technologically advanced society. This program, after providing a strong technical foundation, will give students the opportunity to progress through the various areas and refine their technical skills and problem-solving capabilities. This refinement of psycho-motor skills, blended with affective and cognitive development, will help to give students the a well-rounded education.

The courses presented within the Technology Education Department have been carefully designed to help students meet the specific objectives identified in the recently adopted Science & Technology Educational Standards outlined by the Pennsylvania Department of Education.

731 TECHNICAL DRAWING (One Semester) (Grades 9-12)

Prerequisite: Recommended strong science, technology, engineering, mathematics, and computer skills.

This is an introductory course in the fundamentals of technical drawing. Topics include: the use of the mechanical drawing instruments, geometric construction, orthographic projection, isometric drawing, technical sketching, sectional and auxiliary views, proper lettering, and dimensioning techniques. Students will also gain an understanding of drawing in scale using architectural, engineering, and metric scales. Students will also utilize Pro-Engineer, 3-dimensional, parametric modeling software.

732 ARCHITECTURAL DESIGN (One Semester) (Grades 10-12)

Prerequisite: Recommend a AC@ or better average in Technical Drawing and strong science, technology, engineering, mathematics, and computer skills.

Basic and advanced principles, tools, and techniques of technical drawing will be used in an architectural design challenge. Students will design a residential structure based on specific parameters. Students will create floor plans, elevations, and pictorial drawings of a single story residential structure. From this design, students will then create a 3-dimensional scale model of this structure. Concepts from science, technology, engineering, and mathematics will be applied in this course. Each student will be expected to follow all safety policies and procedures while working in any lab situation.

741 STRUCTURAL DESIGN (1 Semester) (Grades 10-12)

Prerequisite: Recommend a “C” or better in Technical Drawing and strong science, technology, engineering, mathematics, and computer skills.

Students will study various structures, then work to complete design challenges based on design briefs. Students will create a technical drawing based on their design concepts. From this drawing, students will construct the structure. Once construction is complete, testing of the structure will determine the success and efficiency of the design. Concepts from science, technology, engineering, and mathematics will be applied in this course. Each student will be expected to follow all safety policies and procedures while working in any lab situation.

745 POWER, ENERGY & TRANSPORTATION (One Semester) (Grades 10-12)

Prerequisite: Recommend a “C” or better in Technical Drawing and strong science, technology, engineering, mathematics, and computer skills.

Students will be introduced to the world of energy, power, and transportation technology. Students will apply concepts from science, technology, engineering, and mathematics to design various transportation vehicles to operate in various environments utilizing different energy sources to generate power. Students will create prototype models of their vehicles and 3-D parametric models using Pro-Engineer software. Concepts from science, technology, engineering and mathematics will be applied in this course. Each student will be expected to follow all safety policies and procedures while working in any lab situation.

746 APPLIED ROBOTICS (One Semester) (Grades 10-12)

Prerequisite: Recommended strong science, technology, engineering, mathematics, and computer skills.

Students will build and program robots to complete various design challenges. Students will design and construct robots using a variety of servo motors, gears, and sensors to solve problems and then write programs using computer software to control the robot. Students will use the computer software for basic programming, such as driving motors, incorporating sensor inputs, completing calculations, and learning simplified programming structures and flow control. Concepts from science, technology, engineering, and mathematics will be applied in this course. Each student will be expected to follow all safety policies and procedures while working in any lab situation.

747 STAGE PRODUCTION – FALL (One Semester) (Grades 10-12)

Students will study the technical and aesthetic aspects of the stage: scene design, stage lighting, set construction, prop building and design, sound, special effects, scenery painting, costume design, and stage make-up techniques. For the final exam, student will experience hands-on activities for the Fall Drama Production. Full participation is required and students may be asked to work after school hours to complete assignments.

748 STAGE PRODUCTION – SPRING (One Semester) (Grades 10-12)

Students will study the technical and aesthetic aspects of the stage: scene design, stage lighting, set construction, prop building and design, sound, special effects, and scenery painting. For the final exam project, students will experience hands-on activities in these areas for the Spring Musical Production. Full participation is required and students may be asked to work after school hours to complete assignments.

FINE ARTS DEPARTMENT

750 ART I (Full Year) (Grades 9-11)

Prerequisite: (For grade 8 only) Middle School Departmental approval and an “A” average in prior middle school art courses.

This course is the FIRST of a series of drawing and painting courses for students at the high school level. Students will be expected to draw many things from sight while learning the basic elements of art and art history. The students will be expected to keep a notebook for handouts, vocabulary sheets, and quizzes. The projects will include a variety of media, such as: pencil, markers, pastels, acrylic painting, watercolor painting, computers, collage, printmaking, and sculpture.

751 ART 2 (Full Year) (Grades 10-12)

Prerequisite: Successful completion of Art I with AC@ or better & departmental approval.

This course is the SECOND in a series of drawing and painting courses for students at the high school level. Students will continue drawing things from observation while integrating art history in a more intensive way. Students will continue to use a variety of media to create projects throughout the year. This class is a prerequisite for Art 3 & 4.

752 ART 3 (Full Year) (Grades 11-12)

Prerequisite: Successful completion of Art 2 with a AC@ average & departmental approval.

This course is designed for students who are VERY serious about art and wish to improve their drawing and painting skills. Many aspects of drawing and painting will be explored. You must be very strong at sketching and drawing both from observation as well as using your creative imagination.

754 ART 4 (Full Year) (Grades 12 Only)

Prerequisites: 1. Students who maintain at least a 96% average in Art 2 may take this class simultaneously with Art 3 WITH departmental approval. 2. ALL OTHER STUDENTS MUST successfully complete Art 3 with at least a “B” average and departmental approval.

This course is designed for those students who are serious about continuing art long after high school. Students will be expected to understand the visual arts in relation to history and culture as well as make connections between the visual arts and other disciplines while using higher levels of thinking and problem solving to create original works of art. They will also be expected to reflect upon and assess the characteristics and merits of their work and the work of others. Preparing and maintaining a portfolio will be a requirement for this course. The 2nd semester focus will be 3-dimensional art work.

755 THE ART OF FANTASY AND FICTION (One Semester) (Grades 9-12)

Trace the history and connection of mythology, tales of fantasy and animation. Topics range from the meaning behind early cave paintings to the stories told in current movies, comics and cartoons. This is a multi-media class where students paint, sculpt, create historic replicas, and write and illustrate their own stories. We will examine the work of artists who create in the genre and view significant DVDs. Computer animation will be used as technology permits. **No prerequisite, but drawing skills are helpful.**

757 ART IN 3-D (One Semester) (Grades 10-12)

Prerequisite: Any Art class with a “B” average or better.

This is the place for those who like to build things and work with their hands. Elements will be taken from Craft and Ceramic techniques and materials. Projects range from practical objects to abstract sculpture. Materials include paper, wood, plaster, clay and recycled materials. Students can specialize in one material and style. Great for your Senior Art portfolio.

758 CRAFTS 1 (One Semester) (Grades 9-12)

This class is designed for students who want to experience art without an emphasis on drawing and painting. The class will be focusing on many different crafts from many different cultures. Some of the possible craft materials explored in Crafts 1: paper crafts, fiber art, weaving, and basic clay techniques. This class incorporates various construction techniques using these materials. **There is no prerequisite for this course.**

759 CREATIVE LETTERING AND SCRAPBOOKING (One Semester) (Grades 9-12)

Traditional and inventive lettering formats will be taught with the emphasis on their useful application. This includes Calligraphy styles from many cultures and time periods. Students will create a scrapbook to display their work and other personal memorabilia. This can be used for your senior scrapbook. **There is no prerequisite for this course.**

760 CRAFTS 2 (One Semester) (Grades 10-12)

Prerequisite: A “B” or better in Crafts I.

This class continues with the skills learned in Crafts 1. It will incorporate further exploration of craft materials and cultures. More advanced techniques and creative solutions will be expected. Some of the possible craft materials explored in Crafts 2: ceramics, metal work, paper crafts, advanced weaving, and jewelry.

762 CERAMICS 1 (One Semester) (Grades 9-12)

This class is designed for students who like to work with their hands and would like to learn about pottery. Hand building techniques will be taught including: pinch, coil, slab, and combined construction. Students choose glaze colors to give projects a final finish. **There is no prerequisite for this course.**

763 CERAMICS 2 (One Semester) (Grades 10-12)

Prerequisite: A “B” or better in Ceramics I, Art 2, or outside courses or experience.

Those with prior success using clay will be challenged to combine basic techniques in this class. Projects will be larger and more complex. Various glazing techniques will be explored, including: Sgraffito, splattering, underglazing, and texturing

764 BASIC DIGITAL PHOTOGRAPHY & WEB DEVELOPMENT (One Semester) (Grades 10-12)

No prerequisite BUT students MUST have their own digital camera and USB cable. (A camera phone does not meet the requirement and is NOT PERMITTED.)

This class is available to students who have an interest in BOTH PHOTOGRAPHY and WEB DESIGN. For nine weeks, students will be expected to take photos on a weekly basis outside of class. During class, students will be critiquing the photos taken, learning how to take better photos and then enhancing the photos in Adobe Photoshop. For the other nine weeks, students will be taught web design, some basic HTML, web design software, and overall design concepts for the Web. By the end of the semester, students will be expected to have a Web Site designed with their own Digital Photography photos as the final product.

765 ADVANCED DIGITAL PHOTOGRAPHY & ADOBE PHOTOSHOP (One Sem.) (Grades 11-12)

Prerequisite: Art I or Basic Digital Photography AND Departmental Approval. Students MUST have their own digital camera and a USB cable. (A camera phone does not meet the requirement and is NOT PERMITTED.)

This class is available to students who have an interest in photography or computer graphics as an art form. Students will be expected to take photos weekly outside of class. During class, students will be learning how to take better photos, enhancing their photos using Adobe Photoshop, and placing the photos into a PowerPoint presentation for the end of each nine weeks. Throughout the first nine weeks, students will learn many Adobe Photoshop techniques to manipulate photos. The second nine weeks, students will be combining techniques learned into more complicated computer generated images and designs.

PHYSICAL EDUCATION DEPARTMENT

All students are required by state law to take physical education each year. Freshmen students must take 811 Physical Education I / 810 Health I / 812 Health II.

PHYSICAL EDUCATION PROGRAM

811 PHYSICAL EDUCATION/810 HEALTH I/812 HEALTH II (Full Year) (Grade 9-10)

The freshman health education program is designed to encompass current health issues that will be of importance throughout a student's lifetime. These issues include the following: smoking, alcohol, communicable diseases, diet and nutrition, sports and fitness, health agencies, consumer health protection, first aid and safety education, drug abuse, AIDS and sexually transmitted diseases, mental health, CPR and body systems.

814 PHYSICAL EDUCATION/813 HEALTH I/815 HEALTH II (Full Year) (Grade 11-12) See above.

831 PHYSICAL EDUCATION (Sophomores, Juniors & Seniors)

832 SPORTS PHYSICAL EDUCATION (Fall Semester - 8th Period) (Grades 10-12)

833 SPORTS PHYSICAL EDUCATION (Spring Semester - 8th Period) (Grades 10-12)

This elective physical education course is designed for students who participate in sports. Flexibility, strength, and endurance will be developed through a variety of activities.

843 PHYSICAL FITNESS I (Fall Semester) (Grades 10-12)

This elective physical education course is designed for students who participate in fall sports. Strength, flexibility, and endurance will be emphasized. The activities will include calisthenics, running, aquatics, isotonic exercises, and weight training.

845 PHYSICAL FITNESS II (Spring Semester) (Grades 10-12)

This elective physical education course is designed for students who participate in spring sports. Strength, flexibility, and endurance will be emphasized. The activities will include calisthenics, running, aquatics, isotonic exercises, and weight training.

846 GET PHYSICAL (Full Year) (Grades 10-12)

Get physical is a well-balanced, complete approach to physical fitness. The activities will include running, jogging, jogging aerobics, swimming, rope jumping, and yoga. A section featuring basic nutritional guidelines and healthy eating skills will be included.

848 ADAPTIVE PHYSICAL EDUCATION

All students will be assigned to a physical education class. If, due to an illness, an injury, and/or a disability, a student cannot participate in a physical education class, he/she will be assigned to the Adapted Physical Education class.

GENERAL STUDIES

094 RESOURCE

This course is designed to provide supportive services for the student who may need more individualized instruction

in order to maintain successful completion of the requirements of mainstreamed classes. **.5 credit will be given per semester.**

079 WORK EXPERIENCE

General work experience education develops desirable attitudes and appropriate work skills needed for competitive employment. It promotes understanding of the relationships between formal education and job success through **supervised**, part-time employment. This part-time work need not be related to a specific occupational goal of the student. The student receives pay and school credit for successful participation.

997 SCHOOL TO WORK I/II (One Semester Each) (Grade 12 Only)

Senior students needing no more than four credits may enter the work place and be excused from their afternoon classes to work. Students are required to maintain a part-time job and work at least fifteen hours per week **during the excused school time**. You are required to submit proof of employment and hours worked **each pay period**. Satisfactory school and work attendance is mandatory for completing the course requirements necessary for School to Work I & II. A passing grade in School to Work I is mandatory to continue in School to Work II. **THIS PROGRAM IS NOT RECOMMENDED FOR COLLEGE BOUND STUDENTS.**

DRIVERS EDUCATION PROGRAM

There is a \$50.00 fee for Drivers Theory and an additional \$50.00 fee for Behind-The-Wheel instruction.

This after school program provides thirty hours of classroom instruction to acquire the information necessary for safe driving behaviors and attitudes. Students will meet for Drivers Theory on Mondays and Tuesdays after school from 2:30 p.m. to 4:00 p.m. for ten weeks. The course is offered three times per year. Transportation home will be the student's responsibility. Behind-The-Wheel instruction (6 hours after school) will be arranged individually with each student after they have completed Drivers Theory. An achievement certificate will be issued to each student after the completion of the course. This certificate can be used by the student to receive his/her automobile insurance discount, if applicable. Application for registration can be obtained in the high school office or see Mr. Lesko. **This is a non-credit course.**

CAREER AND TECHNOLOGY SCHOOL

900 CAREER AND TECHNOLOGY SCHOOL (A.M. Session)

901 CAREER AND TECHNOLOGY SCHOOL (P.M. Session)

Auto Collision Technology

Students enrolled in the Auto Collision Technology program are exposed to the latest equipment and develop the skills necessary to be an effective auto collision specialist. Students will be knowledgeable in the repair and restoration of body, frame, and upholstery of automobiles. Students will work with practical application in metal straightening, gas and electric welding, spray paint and polishing.

Automotive Technology

Students interested in the service and repair of automotive equipment will find the Auto Technology program an outstanding choice. Students will be trained to utilize all the latest diagnostic equipment in the industry. Emphasis is placed on standard shift drive and conventional and front wheel drive theory. Exploration will include a study of electricity. Advanced students will receive instruction in the following areas: air conditioning, wheel alignment, and brakes. Students will also complete the state vehicle safety and emissions inspector certifications. Students will work toward ASE (Automotive Standards of Excellence) and may participate in the AYES (Automotive Youth Education Systems) internship.

Carpentry

Carpentry students develop skills to become effective members of a construction team. Students will gain valuable skills that will enable them to produce residential and commercial framework, cabinetry, and other forms of woodwork. The program consists of practical application in woodworking, tool/machine handling, building layout, and framing. Skills will also be developed in roof construction, exterior/interior finish work, stair construction, and concrete forms. Students are also exposed to the various inspection and building code requirements.

Commercial Art & Illustration

Commercial Art students develop skills to serve the communication media needs in today's world. Greeting cards, cartooning, caricatures, and books are just a few of the many products created by commercial art professionals. The program consists of practical application as well as basic theory. The practical application consists of drawing, figure construction and anatomy, cartooning, airbrush techniques, layout and graphic design, lettering and typography, mechanical overlays, and portfolio assembly.

Computer & Information Science

The fast-paced ever-changing computer field has opened many opportunities for individuals with a desire to work with computers. Students enrolled in the program will receive an overview of computer fundamentals. Students will have an extensive study of the software packages available on Microsoft Office such as: Word, PowerPoint, Access, and Excel. Students will compare text editors and WYSIWYG editors for web development. Students will also have the opportunity to explore and become knowledgeable in Visual Basic, Oracle SQL, and Java Programming.

Construction Trades

A skilled Building Trades Mechanic is a valuable part of any construction team. They are skilled and knowledgeable in plumbing, carpentry, electricity, painting, wall coverings, and masonry. A trained professional can work on new construction as well as restoration projects. Students enrolled in the Construction Trades Program will also gain valuable skills in blueprint reading, tool and material handling, and building code requirements.

Cosmetology

Students enrolled in the Cosmetology Program will gain skills in haircutting techniques, shampooing, and coloring, and also develop skills in manicures, pedicures, and massages. Exploration is placed on hair structure, anatomy, and sanitation. The goal of the program is for students to gain skill proficiency in preparation for the State Board of Cosmetology Exam.

Culinary Arts

A reputation for serving and preparing good food is essential for any restaurant, hotel, or resort. The Culinary Arts student will gain the skills to be an effective part of the hospitality industry. Students will develop skills in hot/cold food preparation, baking, and menu planning in the school's kitchen. Techniques in cake decorating and other confectionary items will be explored. Emphasis will be placed on safety, nutrition, and restaurant operation.

Drafting (Computer Aided)

Students enrolled in the Drafting Program will develop the ability to interpret and construct architectural and mechanical drawings. Students will create these drawings using the latest computer-aided drafting software packages available in the industry today. Advanced work includes developing surfaces and intersections, welding instructional drawings, and detailed working drawings.

Electrical Technology Occupations

Electricity plays a vital role in the way we live, work, and spend our leisure time. Skilled electricians are needed to perform work in industrial, public, and residential buildings. Students acquire practical application in the installation and maintenance of programmable controls, residential wiring, electrical circuits, and commercial wiring. Students will gain valuable skills when working with transformers, capacitors, resistors, inductors, and conduit bending. Proficiency will be developed in blueprint reading and understanding of the National Electrical Code.

Electronics Technology

As the electronic equipment that we use becomes more advanced, the demand for highly trained technicians who can install and service equipment will continue to grow. The program consists of practical application as well as basic theory. The practical application includes direct current circuits, alternating current circuits, solid-state services, and digital circuitry. Students will become familiar with the microprocessor as a circuit device. Particular attention will be given to troubleshooting and installation of microcomputers, DVD's, sound systems, and other consumer electronic products. Emphasis will be placed on math and physics as they relate to the field. Students in this program may work toward ETA certification.

Graphic Communications Technology

Students looking for a future that will enable them to work in a variety of settings, with the ability to be creative, and to work in a hands-on environment will enjoy the Graphic Communications program. The program consists of an overview of the graphic technology field. Students will explore such areas as: graphic design, art, digital design, photography, pre-press production, offset printing, bindery work, silk screen productions, as well as desktop publishing. Students enrolled in this program can work towards the nationally recognized PrintEd certification.

Health Professions/Occupations

Students looking for a future in the health care industry can find plenty of opportunities while enrolled in the Health Professions/Occupations program. Students will gain valuable knowledge in assisting in a doctor's office. Students will study anatomy, physiology, and develop basic clinical procedures. The program covers first aid, bacteriology, nursing care, medical terminology, diseases, lab procedures, and nutrition. Students gain skills in use and safe care of instruments used in a variety of health care settings. Students also gain valuable clinical work experience, where they will use skills learned in the classroom at an approved work site. Students who satisfactorily complete the requirements as approved by the Pennsylvania Department of Health will be encouraged to take the certification examination for the Nursing Assistant/Certified Health Aide.

Heating & Air Conditioning

Heating & Air Conditioning Systems control the temperature, humidity, and total air quality, and the need for trained technicians continues to grow. Students enrolled in the program will gain valuable skills in all aspects of the HVAC industry. Entry level students will become knowledgeable in electricity; beginning with OHM's Law advancing and to schematics and circuitry. Emphasis is placed on piping, soldering, and brazing. Students will be able to install, diagnose, and repair fossil fuel systems and heat pumps. Valuable skills will be gained in blueprint reading and customer service.

Horticulture

The Horticulture program is an excellent opportunity for students to gain valuable skills to work in a greenhouse environment. Students will explore plant science concepts as they relate to producing crops in a greenhouse or nursery setting. Techniques for creating flower arrangements, corsages designed for use in weddings, parties, and other social affairs will be developed. Students will work in the retail store to develop skills in marketing and retailing. In the school's outdoor lab, students will become knowledgeable in landscape design, maintenance, and installation. Students will become proficient in the use of power tools as well as basic hand tools used in the trade.

Industrial/Residential Painting, Wallcovering & Design

The Industrial/Residential Painting, Wallcovering & Design program is an excellent opportunity for those interested in exterior/interior painting, interior decorating, wood finishing, dry-wall finishing, and spray-painting. The program consists of practical application as well as basic theory. The practical application includes applying paint to interior and exterior surfaces. Emphasis is placed on proper handling of brushes, rollers, and spray equipment. Students will be taught to hand wall coverings, borders, vinyl fabric, and faux finishing to enhance the look of interior rooms. Students will gain skills in estimating, measuring, and color fundamentals. Time will also be allotted for wood finishing and refinishing.

Machine Trades Technology

Metal Workers use powered machine tools to shape and form many parts which, when assembled, produce many of the products that we use. The Machine Trades Technology program is a NIMS (National Institute of Metalworking Skills) certified program that consists of practical application in metal cutting, drilling, milling, turning, grinding, sawing, and non-traditional electrical discharge/plunge and wire cutting machines. Students become proficient in the use of rulers, micrometers, dial calipers, optical-comparator, CMM (Coordinate Measuring Machine), hardness tester, and surface finisher testers. Students will also gain skills in blueprint reading. Interested students may acquire NIMS credentials that are recognized by employers nationwide.

Masonry

Mason work is used in every part of our daily lives. Skilled masons construct hospitals, schools, malls, and even our homes. A mason works with such materials as concrete, brick, stone, and tile. The program consists of practical application of blueprint reading and the use of masonry tools and equipment. Students will become proficient in layout design, arches, bonds, corners, and ornamental patterns. Students will gain skills to complete fireplaces, glass block windows, walls, and ceramic tile work. Exercises will be repeated in order to develop accuracy, neatness, speed, and the necessary experience to analyze and solve problems. Students will gain knowledge in estimating costs of projects and building code requirements.

Materials Handling/Distribution Operation

As technology advances in the way we ship and receive goods the need for trained material handlers will continue to grow. Students enrolled in the Material Handling/Distribution Operation program will gain practical application by working in the school's live distribution center. Participants will gain valuable skills in the use of the computer in maintaining an ongoing inventory, receiving and shipping goods, and updating stock cards. Students will also learn the bar coding process for scanning merchandise for inventory control. Professional communication and telephone skills are stressed throughout the program. Students will also learn to properly use and operate an electric forklift, electric pallet lift, and other equipment used by a materials handler. Students will also be knowledgeable in postal regulations, preparing shipments, and costs.

Metal Fabrication/Welding

Welding is the most common way of permanently joining metal parts. Because of its strength, welding is used to construct and repair ships, automobiles, spacecrafts, and many other manufactured products. Students enrolled in the program will be taught the fundamentals of metal fabrication/welding. Students will learn to join metals using Electric Arc, Tungsten Arc Welding (TIG), Semiautomatic Gas and Metal Arc Welding (MIG). Students will also acquire skills in OXY Acetylene Gas Welding. Skills in metal forming, layout, and cutting will also be obtained. Job Safety is stressed throughout the program.

Plumbing

Students enrolled in the Plumbing program will have a strong understanding of plumbing fundamentals. Explorations will occur in a hands-on environment, developing skills in sanitary piping systems, venting piping systems, and water supply systems. Students will gain valuable knowledge in job planning and OSHA regulations.

Powerline TEC 2000+

Students enrolled in the Powerline TEC 2000+ program will make the connection to America's communication network. Students will gain technical skills in installation, trouble shooting, and repair of telecommunication equipment of all types, including telephone networks, computer networks, and video systems. Students will gain a fundamental understanding of electricity and electronics. Particular attention is given to the computer and how it relates to telecommunication. Interested students may acquire industry certifications in networking and fiber optics through C-Tech.

Protective Services (Grades 10-12)

The Protective Services program is intended to present a comprehensive public safety education to students interested in pursuing a career or volunteer service in the fire, emergency medical, law enforcement or emergency management services. The primary focus in this program is personal safety and the interrelationship between public safety agencies. Since all areas of public safety must work together, and responsibilities often overlap boundaries, the student will be expected to meet a minimum level of proficiency in all areas of the training program. The program also serves as a springboard into health-care, legal, industrial safety, and public administration education careers.

BVA REQUIREMENTS FOR GRADUATION

12TH, 11TH, 10TH & 9TH GRADE 26 CREDITS

4 UNITS OF ENGLISH One unit of English is required in each of grades 9, 10, 11 and 12.
4 UNITS OF MATH
4 UNITS OF SOCIAL STUDIES
4 UNITS OF SCIENCE
2 UNITS OF ARTS/HUMANITIES
2 UNITS OF COMPUTER TECHNOLOGY
2 UNITS OF HEALTH/PHYSICAL EDUCATION
4 UNITS OF ELECTIVES

CAREER & TECHNOLOGY STUDENTS**

12TH, 11TH, 10TH & 9TH GRADE 25 CREDITS

4 UNITS OF ENGLISH One unit of English is required in each of grades 9, 10, 11 and 12.
4 UNITS OF MATH
3 UNITS OF SOCIAL STUDIES
3 UNITS OF SCIENCE
2 UNITS OF ARTS/HUMANITIES
1 UNITS OF HEALTH/PHYSICAL EDUCATION
8 UNITS OF ELECTIVES

**** Must successfully complete a specific program.**

STANDARDS FOR PROMOTION

Promotion in grades 9 - 12 is based on the number of units or credits earned.

1. Assignment to grade 10 will be based upon the satisfactory completion of (5.5) credits.
2. Assignment to grade 11 will be based upon the satisfactory completion of (11) credits.
3. Assignment to grade 12 will be based upon the satisfactory completion of (18) credits.

GENERAL PROCEDURES AND POLICIES

ALL freshmen are required to schedule a minimum of seven (7) credits every semester in addition to Physical Education/Health.

ALL sophomores, juniors and seniors are required to carry a minimum of seven (7) credits every semester in addition to Physical Education. If a student has no study halls during the first semester, they may be permitted to have two (2) during the second semester.

English, math, science and social studies must be scheduled each year in grades 9, 10, 11, 12.

* * Exception: see CWCTC requirements

It is impossible for the school to consider requests to change classes because of teacher preference. Be sure of your course selections, discuss them with your parents and be prepared to stay with them through to the end of the school year.

DEPARTMENTAL REQUIREMENTS

ENGLISH

110 English 9, 111 College Preparatory English 9, or 112 Accelerated English 9 is required for all freshman.
120 English 10, 121 College Preparatory English 10 or 122 Accelerated English 10 is required for all sophomores.
130 English 11, 131 College Preparatory English 11 or 132 Honors English 11 is required for all juniors.
140 English 12, 141 College Preparatory English 12 or 142 Honors English 12 is required for all seniors.

SCIENCE*

Biology is required of all freshmen. Earth and Space Science or Chemistry will be required of all sophomores. A year of science is also required in each grade 11 and 12.*

SOCIAL STUDIES*

Civics/Pennsylvania History is required for all freshmen.
World Culture is required for all sophomores.
American Culture is required for all juniors.
Additional elective(s) totaling one credit are required for all seniors.

HEALTH

Required of all freshmen.* (State law requires all students to have health prior to graduation.)

PHYSICAL EDUCATION

Must be enrolled and pass a physical education course each year of grades 9, 10, 11 and 12; which will be 2 credit each year/2 credits total.*

COMPUTER TECHNOLOGY*

645 Computer Applications is required of all freshmen.
647 Word 2007-Word Processing I is required for graduation.
An additional departmental elective worth .5 credit is required for graduation.

FAMILY AND CONSUMER SCIENCE*

All students must schedule either 726 Family Living or 728 Child Care before graduation.

***See CWCTC requirements for more detailed information.**

COURSE LISTINGS/LANGUAGE ARTS

Course No.	Course Title	Grade	Page No.	Duration Yr./Semester	Credit
074	READING I	9	10	Y	1
075	READING II	10	10	Y	1
090	ENGLISH I	9	10	Y	1
091	ENGLISH II	10	10	Y	1
092	ENGLISH III	11	10	Y	1
093	ENGLISH IV	12	10	Y	1
**100	HUMANITIES CORE: HUMANITIES	9	11	9 wks	.25
101	SPEECH I (Grade 9)	9	15	Y	1
103	SPEECH (Grades 10 – 12)	10-12	15	Y	1
104	ADVANCED SPEECH	10-12	15	Y	1
107	HONORS ARGUMENT AND DEBATE (HC)	10B12	16	y	1
110	ENGLISH 9 ®	9	11	Y	1
111	COLLEGE PREPARATORY ENGLISH 9 ®	9	12	Y	1
112	ACCELERATED ENGLISH 9	9	13	Y	1
120	ENGLISH 10 ®	10	11	Y	1
121	COLLEGE PREPARATORY ENGLISH 10 ®	10	12	Y	1
122	ACCELERATED ENGLISH 10	10	14	Y	1
123	JOURNALISM PRODUCTION	10-12	16	Y	1
127	PREP FOR COLLEGE WRITING	11-12	16	S	.5
130	ENGLISH 11 ®	11	11	Y	1
131	COLLEGE PREPARATORY ENGLISH 11 ®	11	13	Y	1
#132	ADVANCED PLACEMENT ENGLISH 11 (HC)	11	14	Y	1
134	MYTHOLOGY	10-12	16	S	.5
136	DRAMATIC LITERATURE	10-12	16	S	.5
140	ENGLISH 12 ®	12	12	Y	1
141	COLLEGE PREPARATORY ENGLISH 12 ®	12	13	Y	1
142	ADVANCED PLACEMENT ENGLISH 12 (HC)	12	14	Y	1

143	TV PRODUCTION	11-12	17	S	.5
144	BROADCAST ANNOUNCING	11-12	17	S	.5
145	MEDIA ETHICS & IMPACT	11-12	17	S	.5
146	MASS MEDIA	10-12	18	S	.5
147	ADVANCED TV PRODUCTION	10-12	18	Y	1
COURSE LISTINGS WORL D LANGUAGES					
Course No.	Course Title	Grade	Page No.	Duration Yr./Semester	Credit
211	FRENCH I	9	19	Y	1
212	FRENCH II	10	19	Y	1
213	FRENCH III	11	19	Y	1
214	FRENCH IV (HC)	12	19	Y	1
218	HONOR FRENCH V (HC)	12	19	Y	1
221	SPANISH I	9	20	Y	1
222	SPANISH II	10	20	Y	1
223	SPANISH III	11	20	Y	1
225	SPANISH II	9	20	Y	1
226	SPANISH III	10	20	Y	1
227	SPANISH IV (HC)	11	21	Y	1
228	HONOR SPANISH V (HC)	12	21	Y	1

COURSE LISTING/MATHEMATICS

Course No.	Course Title	Grade	Page No.	Duration Yr./Semester	Credit
084	INTEGRATED MATH I	9, 10, 11	23	Y	1
085	INTEGRATED MATH II	10, 11, 12	23	Y	1
086	INTEGRATED MATH III	11, 12	23	Y	1
314	ALGEBRA I	9	23	Y	1
316	ALGEBRA B	9	23	Y	1
317	ALGEBRA B	10, 11, 12	23	y	1
318	ALGEBRA II	10, 12	23	Y	1
319	ALGEBRA II	11 ONLY	24	Y	1
320	ALGEBRA/GEOMETRY PART B	10-12	24	Y	1
321	ALGEBRA/GEOMETRY PART C	11-12	24	Y	1
322	ACCELERATED ALGEBRA II	10	24	Y	1
324	GEOMETRY	9, 10, 12	24	Y	1
325	GEOMETRY	11 ONLY	25	Y	1
327	ACCELERATED GEOMETRY	9	25	Y	1
329	ALGEBRA III/ TRIGONOMETRY	11 ONLY	25	Y	1
330	ALGEBRA III/TRIBONOMETRY	12 ONLY	25	Y	1
331	INTRO TO CALCULUS	12	25	Y	1
332	PRE-CALCULUS (HC)	11	25	Y	1
334	HONORS CALCULUS (HC)	12	25	Y	1
336	ADV. PLACEMENT CALC. (College in High School) (HC)	12	26	Y	1
338	STATISTICS (College in High School) (HC)	11-12	26	Y	1
339	PSSA ENHANCEMENT	11	26	Y	1
627	ACCOUNTING I	10-12	26	y	1
632	COLLEGE ACCOUNTING (HC)	11-12	26	y	1
713	PSSA PREP (HUMANITIES CORE)	9	26	9 WKS.	.25

COURSE LISTINGS/SCIENCE

Course	Course Title	Grade	Page	Duration	Credit	
400	GENERAL BIOLOGY	9	27	Y	1	
405	BIOLOGY	9	27	Y	1	
408	ACCELERATED BIOLOGY	9	27	Y	1	
420	EARTH AND SPACE SCIENCE	10	27	Y	1	
430	CHEMISTRY	1 lab pd per week	10-12	27	Y	1
435	ACCELERATED CHEMISTRY	1 lab pd per week	10-12	27	Y	1
452	PHYSICAL SCIENCE	11-12	28	Y	1	
455	ENVIRONMENTAL SCIENCE	11-12	28	Y	1	
460	MICROBIOLOGY & FORENSIC BIOLOGY	11-12	28	Y	1	
474	ASTRONOMY	11-12	28	Y	1	
476	PHYSICS	1 lab pd per week	11-12	29	Y	1
478	ANATOMY & PHYSIOLOGY	11-12	29	Y	1	
480	ORGANIC CHEMISTRY	11-12	29	Y	1	
484	HONORS PHYSICS (HC)	1 lab pd per week	11-12	29	Y	1
486	ADVANCED PLACEMENT BIOLOGY (HC)	2 lab pds per week	11-12	30	Y	1
488	ADVANCED PLACEMENT CHEMISTRY (HC)	1 lab pd per week	12	30	Y	1
492	PHYSICS II (HC)	2 lab pds per week	12	30	Y	1

	Grade 9	Grade 10	Grades 11/12
Proficient	1C 400 General Biology	1C 420 Earth and Space Science	1C 452 Physical Science 1C 455 Environmental
Highly Proficient	1C 405 Biology	1C 430 Chemistry	1C 455 Environmental 1C 460 Microbiology and Forensic Biology 1C 474 Astronomy 1C 476 Physics 1C 478 Anatomy and Physiology
Advanced	1C 408 Accelerated Biology	1C 435 Accelerated Chemistry	1C 460 Microbiology and Forensic Biology 1C474 Astronomy 1C 478 Anatomy and Physiology 1C 480 Organic Chemistry 1C 484 Honors Physics 1C 486 AP Biology 1C 488 AP Chemistry 1C 492 Physics II
Moving to adjacent tracks will require teacher recommendations.			

COURSE LISTING/SOCIAL STUDIES

Course No.	Course Title	Grade	Page No.	Duration Yr./Semester	Credit
510	CIVICS/PENNSYLVANIA HISTORY (R)	9	31	Y	1
521	WORLD CULTURE (R)	10	31	Y	1
531	AMERICAN CULTURE (R)	11	31	Y	1
534	GLOBAL GEOGRAPHY	11-12	31	S	.5
541	AMERICAN GOVERNMENT	12	31	S	.5
542	PSYCHOLOGY	12	31	S	.5
543	SOCIOLOGY	12	32	S	.5
544	ADVANCED PLACEMENT EUROPEAN HISTORY (HC)	12	32	Y	1
545	ADVANCED PLACEMENT US HISTORY (HC)	11-12	32	Y	1
546	CONSUMER EDUCATION	11-12	32	Y	1
547	LAW	12	32	S	.5
548	CONSUMER SKILLS	11-12	32	S	.5

Course No.	Course Title	Grade	Page No.	Duration Yr./Semester	Credit
060	BASIC POWERPOINT	11	34	S	.5
546	CONSUMER EDUCATION	11-12	34	Y	1
548	CONSUMER SKILLS	11-12	34	S	.5
616	ENTREPRENEURSHIP	10-12	34	S	.5
623	SPEEDWRITING	10-12	34	S	.5
627	ACCOUNTING I	10-12	34	Y	1
631	ACCOUNTING II/ COMPUTERIZED ACCOUNTING	11-12	35	S	.5
632	COLLEGE ACCOUNTING (HC)	11-12	35	Y	1
633	INTRODUCTION TO QBASIC PROGRAMMING	10-12	35	S	.5
634	ADVANCED BASIC PROGRAMMING	10-12	35	S	.5
644	INTRO TO COMPUTER PROG. USING JAVA (HC)	11-12	36	Y	1
645	FRESHMAN TECHNOLOGY SEMINAR (R)	9	36	S	.5
647	WORD PROCESSING - Word 2007 ®	11-12	36	S	.5
648	FRESHMAN WORD 2007 ®	9	36	S	.5
649	SPREADSHEETS - EXCEL 2007	10-12	36	S	.5
650	SLIDE SHOW PRESENTATION - POWERPOINT 2007	10-12	37	S	.5
651	DATABASE - ACCESS 2007	10-12	37	S	.5
653	HOME PAGE DEVELOPMENT	10-12	37	S	.5
655	ADVANCED HOMEPAGE DEVELOPMENT	10-12	37	S	.5
660	WEB DESIGN IN DREAMWEAVER	10-12	37	S	.5
662	WEB ANIMATION USING FLASH AND FIREWORKS	10-12	37	S	.5
671	DESKTOP PUBLISHING - IN DESIGN	10-12	37	S	.5
672	YEARBOOK I	11-12	35	S	.5
673	YEARBOOK II	12	35	S	.5

Course No.	Course Title	Grade	Page No.	Duration Yr./Semester	Credit
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MUSIC DEPARTMENT

700	SYMPHONIC BAND	10-12	38	Y	1
701	CONCERT BAND	9	38	Y	1
702	CONCERT CHOIR	9-12	38	Y	1
703	CLASS PIANO I	9-12	38	S	.5
704	CLASS PIANO 2	9-12	38	S	.5
705	JAZZ ENSEMBLE	9-12	39	S (Spring)	.5
707	INTRODUCTION TO MUSIC THEORY	9-12	39	S	.5
708	ADVANCED MUSIC THEORY	10-12	39	S	.5
**710	HUMANITIES CORE: MUSIC APPRECIATION	9	39	9 WK	.25
714	MUSICAL THEATER 1	9-12	39	S	.5
715	MUSICAL THEATER 2	9-12	39	S	.5

FAMILY AND CONSUMER SCIENCE

711	ADVENTURES IN HOME ECONOMICS	9-12	40	Y	1
712	COOKING BASICS	10-12	40	S	.5
721	CREATIVE COOKING AND STITCHING	10-12	40	Y	1
722	PASTRIES AND SEWING CRAFTS	10-12	40	Y	1
723	THE WORLD OF FOOD	11-12	40	Y	1
724	FASHIONS	10-12	41	S	.5
725	ADVANCED STITCHING	10-12	41	S	.5
726	FAMILY LIVING (R)	10-12	41	S	.5
727	HOUSING AND INTERIOR DESIGN	11-12	41	S	.5
728	CHILD CARE (R)	10-12	41	S	.5
729	PRE-SCHOOL PRACTICAL EXPERIENCE I (P.S.P.E.I)	11-12	41	S	.5
730	PRE-SCHOOL PRACTICAL EXPERIENCE II (P.S.P.E.II)	11-12	41	S	.5
735/736	ADVANCED PRESCHOOL	12	42	S	.5
737	HUMAN DEVELOPMENT	12	42	S	.5

INDUSTRIAL TECHNOLOGY

731	TECHNICAL DRAWING	9-12	43	S	.5
732	ARCHITECTURAL DESIGN	10-12	43	S	.5
741	STRUCTURAL DESIGN	10-12	43	S	.5
745	ENERGY, POWER & TRANSPORTATION	10-12	43	S	.5
746	APPLIED ROBOTICS	10-12	44	S	.5
747	STAGE PRODUCTION - FALL	10-12	44	S	.5
748	STAGE PRODUCTION - SPRING	10-12	44	S	.5
FINE ARTS					
750	ART I	9-11	44	Y	1
751	ART 2	10-12	44	Y	1
752	ART 3	11-12	44	Y	1
754	ART 4	12	45	Y	1
755	ART OF FANTASY AND FICTION	9-12	45	S	.5
757	ART IN 3-D	10-12	45	S	.5
758	CRAFTS 1	9-12	45	S	.5
759	CREATIVE LETTERING AND SCRAPBOOKING	9-12	45	S	.5
760	CRAFTS 2	10-12	45	S	.5
762	CERAMICS 1	9-12	45	S	.5
763	CERAMICS 2	10-12	46	S	.5
764	BASIC DIGITAL PHOTOGRAPHY & WEB DEVELOPMENT	10-12	46	S	.5
765	ADV. DIGITAL PHOTOGRAPHY & ADOBE PHOTOSHOP	11-12	46	S	.5

COURSES LISTING/PHYSICAL EDUCATION

Course	Course Title	Grade	Page No.	Duration Yr./Semester	Credit
810	HEALTH I	9	47	S	.3
811	PHYSICAL EDUCATION	9	47	Y	.4
812	HEALTH II	9	47	S	.3
813	HEALTH I	11-12	47	S	.3
814	PHYSICAL EDUCATION	11-12	47	Y	.4
815	HEALTH II	11-12	47	S	.3
831	PHYSICAL EDUCATION	10-12	47	S/Y	varies
832	SPORTS P.E. (FALL SEMESTER ONLY)	10-12	47	S	/5
833	SPORTS P.E. (SPRING SEMESTER ONLY)	10-12	47	S	.5
843	PHYSICAL FITNESS I (FALL SEMESTER ONLY)	10-12	47	S	.5
845	PHYSICAL FITNESS II (SPRING SEMESTER ONLY)	10-12	47	S	.5
846	GET PHYSICAL	10-12	47	Y	varies
848	ADAPTIVE PHYSICAL EDUCATION (2 DAYS)	9-12	47	arranged	arranged

- R REQUIRED COURSE
- HC HONOR COURSE
- ** FRESHMAN MUST SCHEDULE IF NOT SCHEDULING FRENCH OR SPANISH
- *** PLACEMENT REQUIRED/LIMITED ENROLLMENT
- + FRESHMEN AND SOPHOMORES/INVITATION ONLY
- # DEPARTMENTAL APPROVAL



NCAA FRESHMAN-ELIGIBILITY STANDARDS QUICK REFERENCE SHEET

KNOW THE RULES:

Core Courses

- Starting August 1, 2008, 16 core courses will be required for NCAA Division I only. This rule applies to any student first entering any Division I college or university on or after August 1, 2008. See the chart below for the breakdown of this 16 core-course requirement.
- 14 core courses are required in NCAA Division II. See the breakdown of core-course requirements below.

Test Scores

- Division I has a sliding scale for test score and grade-point average. The sliding scale for those requirements is shown on page two of this sheet.
- Division II has a minimum SAT score requirement of 820 or an ACT sum score of 68.
- The SAT score used for NCAA purposes includes only the critical reading and math sections. The writing section of the SAT is not used.
- The ACT score used for NCAA purposes is a sum of the four sections on the ACT: English, math, reading and science.
- All SAT and ACT scores must be reported directly to the NCAA Initial-Eligibility Clearinghouse by the testing agency. Test scores that appear on transcripts will no longer be used. When registering for the SAT or ACT, use the clearinghouse code of 9999 to make sure the score is reported to the clearinghouse.

Grade-Point Average

- Only core courses are used in the calculation of the grade-point average.
- Be sure to look at your high school's list of NCAA-approved core courses on the clearinghouse Web site to make certain that the courses being taken have been approved as core courses. The Web site is www.ncaaclearinghouse.net.
- Division I grade-point-average requirements are listed on page two of this sheet.
- The Division II grade-point-average requirement is a minimum 2.000.

DIVISION I 16 Core-Course Rule

16 Core Courses:

- 4 years of English.
- 3 years of mathematics (Algebra I or higher).
- 2 years of natural/physical science (1 year of lab if offered by high school).
- 1 year of additional English, mathematics or natural/physical science.
- 2 years of social science.
- 4 years of additional courses (from any area above, foreign language or non-doctrinal religion/philosophy).

DIVISION II 14 Core-Course Rule

14 Core Courses:

- 3 years of English.
- 2 years of mathematics (Algebra I or higher).
- 2 years of natural/physical science (1 year of lab if offered by high school).
- 2 years of additional English, mathematics or natural/physical science.
- 2 years of social science.
- 3 years of additional courses (from any area above, foreign language or non-doctrinal religion/philosophy).

PLEASE NOTE: For students first entering any NCAA college or university on or after August 1, 2005, computer science courses may only be used for initial-eligibility purposes if the course receives graduation credit in mathematics or natural/physical science and is listed as such on the high school's list of NCAA-approved core courses.

Teacher Recommendations

Subject	Course Name	Course Code	Teacher Signature
English	_____	_____	_____
Math	_____	_____	_____
Science	_____	_____	
Social Studies	_____	_____	
World Language	_____	_____	
Phys. Ed.	_____	_____	
Computer	_____	_____	
Elective	_____	_____	
Elective	_____	_____	
Elective	_____	_____	
Elective	_____	_____	
Elective	_____	_____	

Student Name

Grade

Homeroom

Parent Signature

Phone No.

This form must be removed and attached to the course selection bubble sheet or you may not have your course requests accommodated. Teacher recommendation signatures are required for all requests. Parent signature is required.

