WILKES-BARRE AREA SCHOOL DISTRICT
PROGRAM OF STUDIES

James M. Coughlin Senior High School
G.A.R. Memorial Junior/Senior High School
Elmer L. Meyers Junior/Senior High School
Solomon/Plains Memorial Junior High School

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COURSE SELECTION GUIDE
2008-2009
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Seventh Grade

SUBJECT	PERIODS	UNITS OF CREDIT
Required		
English 7	4	1.00
Mathematics 7 or [1]Pre- Algebra 7	5	1.25
Integrated Science 7	4	1.00
Social Studies 7	4	1.00
Developmental Reading 7	3 -- 4	.75--1.00
[3]Technology Exploration 7	2	.50
Physical Education 7	2	.50
Art 7	2	.50
Music 7	2	.50
Electives		
Instrumental Music 7	1 -- 5	.25 to 1.25
Band Performance	1 -- 5	.25 to 1.25
Orchestra Performance	1 -- 5	.25 to 1.25
Chorus Performance	1 -- 5	.25 to 1.25
[2]Humanities 1, ATP	8	2.00

The number of periods and units of credit are subject to change due to modifications in curriculum

[1]Advanced students are by selection and approval only.
[2]Humanities 1 is an elective for ATP only.
[3]Includes 2 quarters of Family and Consumer Science and Technology Education.

Eighth Grade

SUBJECT	PERIODS	UNITS OF CREDIT
Required		
English 8 or	4	1.00
Pre-Algebra 8 or [1]Algebra 8	5	1.00 -- 1.25
General Science 8	4	1.00
Social Studies 8	4	1.00
Health Education 8	3	0.75
Developmental Reading 8	2 -- 3	.50 -- .75
[3]Technology Exploration 8	2	.50
Physical Education 8	2	.50
Art 8	2	.50
Music 8	2	.50
Electives		
Instrumental Music 8	1 -- 5	.25 -- 1.25
Band Performance	1 -- 5	.25 -- 1.25
Orchestra Performance	1 -- 5	.25 -- 1.25
Chorus Performance	1 -- 5	.25 -- 1.25
[2]Humanities 2, ATP	8	2.00

The number of periods and units of credit are subject to change due to modifications in curriculum

[1]Algebra 1 and Advanced English 8 students are by selection and approval only.
[2]Humanities 2 is an elective for ATP only.
[3]Includes 2 quarters of Family and Consumer Science and Technology Education

Ninth Grade

The following subjects are recommended for those students who are planning to follow the College Preparation Course in Senior High School.

SUBJECTS	PERIODS	UNITS OF CREDIT
Required		
English 9 or	5	1.25
[1]Advanced English 9	5	1.25
US History 1	5	1 .25
Algebra I or	5	1.25
[1]Geometry	5	1.25
[1]CP Biology or	6	1.25
Earth and Space Science	5	1.25
Physical Education 9	1	.25
Health Education 9	2	.50
[2]Humanities 3 ATP	8	2.00
ELECTIVES		
Select One :		
German 1	5	1.25
French 1	5	1.25
Spanish 1	5	1.25
Computer Applications I	5	1.25
[3]Computer Science I	5	1.25
Art	1 -- 5	.25 -- 1.25
Instrumental Music 9	1 -- 5	.25 -- 1.25
Band Performance	1 -- 5	.25 -- 1.25
Orchestra Performance	1 -- 5	.25 -- 1.25
Chorus Performance	1 -- 5	.25 -- 1.25
Keyboarding	2	.50

College Prep Student must complete two consecutive years of a world language

[1]Geometry, CP Biology and Advanced English are by selection and approval only.
[2]Humanities 3 is for ATP only.
[3]Computer Science I requires successful completion of Alg. I, Alg. 8, App. Alg. or permission of the principal

Ninth Grade

The following subjects are recommended for those students who are planning to follow the Business Education, General or Vocational Course in Senior High School.

SUBJECT	PERIODS	UNITS OF CREDIT
Required		
English 9	5	1.25
US History 1	5	1.25
Algebra 1 or Applied Algebra	5	1.25
Earth and Space Science	5	1.25
Physical Education 9	1	.25
Health Education 9	2	.50
Select One		
Family and Consumer Science I	5	1.25
Technology Education 1	5	1.25
Computer Applications I	5	1.25
[3]Computer Science I	5	1.25
German 1	5	1.25
Spanish 1	5	1.25
French 1	5	1.25
Electives		
Art 9	1-- 5	.25 -- 1.25
Instrumental Music 9	1 -- 5	.25 -- 1.25
Band Performance	1 -- 5	.25 -- 1.25
Orchestra Performance	1 -- 5	.25 -- 1.25
Chorus Performance	1 -- 5	.25 -- 1.25
Keyboarding	2	.50

[3]Computer Science I requires successful completion of Alg. I, Alg. 8, App. Alg. or permission of the principal

College Preparatory Courses
Tenth Grade

SUBJECT	PERIODS	UNITS OF CREDIT
Required		
C.P. English 10 or [1]Adv. Eng. 10	5	1.25
C.P. Biology or [2]C.P. Chemistry	6	1.25
Algebra 1, 2, or Geometry	5	1.25
U.S. History II	5	1.25
Language I or II (German, French or Spanish)	5	1.25
Physical Education	2	.50
Electives		
[1]Project Study 10	5	1.25
SAT Study Skills Reading and Math	5	1.25
Computer Science , II	5	1.25
Computer Applications I, II	5	1.25
Accounting I	5	1.25
Technology Education — Industrial Material I	5	1.25
Technology Education — Power Tech I	5	1.25
Technology Education - Vis. Comm. I	5	1.25
Family and Consumer Science I, II	5	1.25
Art	1 -- 5	.25 – 1.25
Instrumental Music Band	1 -- 5	.25 --1.25
Instrumental Music Strings	1 -- 5	.25 -- 1.25
Choral Music	1 --5	.25 – 1.25
Band Performance	1 -- 5	.25 --1.25

[1] Advanced English and Project Study are by selection and approval only.
[2] Successful completion of CP Biology in 9th grade is required.

BUSINESS COURSES
Tenth Grade

SUBJECT	PERIODS	UNITS OF CREDIT
Required		
Business English 10 or C.P. English 10	5	1.25
Applied Algebra, Algebra I, Applied Geometry, or Geometry	5	1.25
Computer Applications I, II and/ or	5	1.25
Accounting 1	5	1.25
Gen. Biology, C.P. Biology or [1]C.P. Chemistry	6	1.25
U.S. History II	5	1.25
Physical Education	2	0.5
Electives		
Language I or II (German, French or Spanish)	5	1.25
Family and Consumer Science I, II	5	I .25
Technology Education --- Industrial Material I	5	1.25
Technology Education --- Power Tech I	5	1.25
Technology Education --- Vis. Comm. I	5	1.25
Art	1 -- 5	.25 – 1.25
Instrumental Music Band	1 -- 5	.25 --1.25
Instrumental Music Strings	1 -- 5	.25 -- 1.25
Choral Music	1 --5	.25 – 1.25
Band Performance	1 -- 5	.25 --1.25

[1] Successful completion of General Biology or CP Biology is required.

GENERAL COURSES
Tenth Grade

SUBJECT	PERIODS	UNITS OF CREDIT
Required		
Bus. English 10 or C.P. Eng. 10	5	1.25
U.S. History II	5	1.25
Applied Algebra, Algebra 1, Geometry, or Applied Geometry	5	1.25
Gen. Biology, C.P. Biology	6	1.25
Physical Education	2	.50
Electives		
Language I or II (German, French or Spanish)	5	1.25
Computer Applications I,II	5	1.25
Accounting 1	5	1.25
Family and Consumer Science I,II	5	1.25
Technology Education --- Industrial Material I	5	1.25
Technology Education --- Power Tech I	5	1.25
Technology Education --- Vis. Comm. I	5	1.25
Art	1 -- 5	.25 – 1.25
Instrumental Music Band	1 -- 5	.25 --1.25
Instrumental Music Strings	1 -- 5	.25 -- 1.25
Choral Music	1 --5	.25 – 1.25
Band Performance	1 -- 5	.25 --1.25

Career and Technology Course
Tenth Grade

SUBJECT	PERIODS	UNITS OF CREDIT
Required		
Vocational	15	3
Business English 10 or C.P. English 10	5	1.25
Applied Algebra, Algebra 1,Geometry, or Applied Geometry	5	1.25
General Biology, CP Biology or CP Chemistry	5 -- 6	1.25
Physical Education	1 -- 2	.25 -- .50

COLLEGE PREPARATORY COURSE
Eleventh Grade

SUBJECT	PERIODS	UNITS OF CREDIT
Required		
C.P. English 11 or [1]Adv. English 11	5	1.25
Civics/Economics	5	1 .25
Geometry, Algebra 2, or Algebra 3/Trigonometry	5	1.25
C.P. Chemistry, C.P. Physics, [2]Bio 2. Adv., or [3]Chemistry 2 Adv.	5 -- 7	1.25
Physical Education	2	.50
Graduation Project		
Electives		
[1] Project Study	3	1.25
Algebra 3/Trigonometry	5	1.25
C.P. Physics	6	1.25
Biology 2 Advanced	7	1.25
Chemistry 2 Advanced	7	1.25
[1]Advanced Placement History	5	1.25
SAT Study Skills Math and Reading	5	1.25
Intro. To Psychology	5	1.25
Law in America	5	1.25
Computer Science I	5	1.25
[4]Computer Science II	5	1.25
Computer Applications I	5	1.25
Computer Applications II	5	1.25
[6]Probability and Statistics	5	1.25
French 1- 2- 3	5	1.25
German 1- 2- 3	5	1.25
Spanish 1- 2- 3	5	1.25
Accounting I,II	5	1.25
Technology Education --- Industrial Materials II	5	1.25
Technology Education --- Power Tech. II	5	1.25
Technology Education --- Vis. Comm. II	5	1.25
Family and Consumer Science I,II, III	5	1.25
Art	1 -- 5	.25 – 1.25
Instrumental Music Band	1 -- 5	.25 --1.25
Instrumental Music Strings	1 -- 5	.25 -- 1.25
Choral Music	1 --5	.25 – 1.25
Band Performance	1 -- 5	.25 --1.25
Photo and Film I	5	1.25

[1] Students for Project Study, AP History and Advanced English are by selection and approval only.
[2] Successful completion of CP Biology is required.
[3] Successful completion of CP Chemistry is required
[4] Successful completion of Computer Science I is required.
[5] Successful completion of Computer Applications I is required.
[6] **Successful completion of Algebra II is required for juniors**

BUSINESS EDUCATION COURSE
Eleventh Grade

SUBJECT	PERIODS	UNITS OF CREDIT
Required		
Business English 11 or C.P. English 11	5	1.25
Science and Technology , CP Physics or CP Chem	5	1.25
[1]Computer Applications 2	5	1.25
Accounting I ,II	5	1.25
Integrated Math	5	1.25
Physical Education	2	.50
Graduation Project		
Electives		
Algebra 1, 2, or Geometry	5	1.25
[3]Probability and Statistics	5	1.25
[2]CP Chemistry	5	1.25
Civics/Economics	5	1 .25
Computer Science I, II,III	5	1.25
Intro. to Psychology	5	1.25
Law in America	5	1.25
Language I , II, III (German, French or Spanish)	5	1.25
Photo and Film. I	5	1.25
Family and Consumer Science I,II,III	5	1.25
Technology Education --- Industrial Materials I, II	5	1.25
Technology Education --- Power Technology I, II	5	1.25
Technology Education --- Vis. Com. I, II	5	1.25
Art	1 -- 5	.25 -- 1.25
Instrumental Music Band	1 -- 5	.25 -- 1.25
Instrumental Music Strings	1 -- 5	.25 -- 1.25
Choral Music	1 -- 5	.25 – 1.25
Band Performance	1 -- 5	.25 – 1.25

[1] Successful completion of Computer Applications 1 is required.
[2] Successful completion of General Biology or CP Biology is required.
[3] Successful completion of Algebra II is required for juniors

Career and Technology Course
ELEVENTH GRADE

SUBJECT	PERIODS	UNITS OF CREDIT
Required		
Vocational	15	3
Business English 11 or C.P. English 11	5	1.25
Science and Technology , CP Physics or CP Chem	5	1.25
Integrated Math, Geometry, [1]Algebra 2	5	1.25
Physical Education	1 -- 2	.25 -- .50
Graduation Project		

COLLEGE PREPARATORY COURSE
TWELFTH GRADE

SUBJECT	PERIODS	UNITS OF CREDIT
Required		
CP. English 12,[1]Adv. English 12, or [1]Advanced Placement English	5	1.25
Physical Education	2	.50
At least two courses must be chosen from the following group.		
Algebra 2	5	1.25
Trigonometry & Algebra 3	5	1.25
[2]Probability and Statistics	5	1.25
[2]Calculus or Advanced Placement Calculus AB	5	1.25
C.P. Physics	6	1.25
[3]Biology 2 Advanced	7	125
[3]Chemistry 2 Advanced	7	1.25
[3]Advanced Placement Physics B	7	1.25
Political Science	5	1.25
Intro. To Psychology	5	1.25
Social Science Seminar	5	1.25
French I,II,III,IV	5	1.25
Spanish I,II,III,IV	5	1.25
German I,II,III,IV	5	1.25
Electives		
[1]Project Study 12	3	1.25
[6]Advanced Placement Chemistry	7	1.25
[1]Advanced Placement Economics	5	1.25
[1]Advanced Placement History	5	1.25
[6]Science 3	5	1.25
Law in America	5	1.25
Computer Science I	5	1.25
[7]Computer Science II	5	1.25
[8]Computer Science III	5	1.25
Computer Applications I	5	1.25
[9]Computer Applications II	5	1.25
[10]Business Technology	5	1.25
Accounting I, II	5	1.25
Technology Education --- Industrial Materials I,II,III	5	1.25
Technology Education --- Power Tech I,II,III	5	1.25
Technology Education --- Vis. Comm. I, II,III	5	1.25
Family and Consumer Science I,II,III,IV	5	1.25

COLLEGE PREPARATORY COURSE
TWELFTH GRADE (Continued)

Electives		
Art	1 -- 5	.25 -- 1.25
Instrumental Music Band	1 -- 5	.25 -- 1.25
Instrumental Music Strings	1 -- 5	.25 -- 1.25
Choral Music	1 -- 5	.25 – 1.25
Photography and Film I,II	5	1.25
SAT Study Skills Reading and Math	5	1.25

[1] Students for Adv. English, Project Study, Adv. Placement English Adv. Placement History and Adv. Placement Economics are by selection and approval only.

[2] Successful completion of Trig./ Alg. 3 is required or both courses can be taken in twelfth grade. Students for Advanced Placement Calculus AB are by selection and approval only.

[3] Successful completion of CP Biology, CP Chemistry and CP Physics is required.

[4] Successful completion of CP Chemistry is required.

[5] Successful completion of CP Physics is required.

[6] Successful completion of Bio. 2. Adv., Chem. 2, Adv; or Physics 2 Adv. is required.

[7] Successful completion of Comp. Science. is required

[8] Successful completion of Computer Science 2 is required.

[9] Successful completion of Computer Applications 1 is required.

[10] Successful completion of Computer Applications 2 is required

BUSINESS EDUCATION COURSE
TWELFTH GRADE

SUBJECT	PERIODS	UNITS OF CREDIT
Required		
Business English 12 or C.P. English 12	5	1.25
[1] Business Technology	5	1.25
Accounting 2	5	1.25
Science and Technology, CP Chemistry, [1]CP Physics [2]Biology 2 Adv. Or [3]Chemistry 2 Adv.	5--6	1.25
Physical Education	2	.50
Electives		
Algebra 2, or Trigonometry /Algebra 3	5	1.25
Probability and Statistics	5	1.25
Practical Math	5	1 .25
Language 2- 3- 4	5	1.25
Introduction to Political Science	5	1.25
Introduction to Psychology	5	1.25
Social Science Seminar	5	1.25
Law in America	5	1.25
Computer Science 1	5	1.25
[4]Computer Science 2	5	1.25
Accounting 1	5	1.25
Technology Education --- Drafting 4	5	1.25
Technology Education --- Industrial Materials 4	5	1.25
Technology Education --- Power Tech 4	5	1.25
Technology Education --- Vis. Comm. 4	5	1.25
Family and Consumer Science 12	5	1.25
Instrumental Music 12	1-- 5	25 -- 1.25
Band Performance	1-- 5	25 -- 1.25
Orchestra Performance	1-- 5	25 -- 1.25
Chorus Performance	1-- 5	25 -- 1.25
Music Preparatory	4	1.00
Art 12	5	1.25
Photo and Film 12	5	1.25

[1] Successful completion of Computer Applications 2 is required.
[2] Successful completion of CP Biology is required.
[3] Successful completion of CP Chemistry is required.
[4] Successful completion of Computer Science 1 is required.

General Studies
TWELFTH GRADE

SUBJECT	PERIODS	UNITS OF CREDIT
Required		
Bus. English I2 or C.P. English 12	5	1.25
Physical Education	2	.50
Science & Technology, CP Physics, or CP Chemistry	5	1.25
Electives		
Practical Math, Applied Geometry, Trigonometry/Algebra 3	5	1.25
Probability and Statistics /Algebra 2	5	1.25
Gen. Biology, C.P. Biology, or C.P. Chemistry	6	1.25
Language 2- 3- 4	5	1.25
Intro. to Psychology	5	1.25
Intro to Political Science	5	1.25
Social Science Seminar	5	1 .25
Computer Science 1	5	1.25
[1]Computer Science 2	5	1.25
[2]Computer Science 3	5	1.25
Computer Applications 1	5	1.25
[3]Computer Applications 2	5	1.25
[4]Business Technology	5	1.25
Accounting 1	5	1.25
Accounting 2	5	1.25
Technology Education --- Drafting 4	5	1.25
Technology Education --- Industrial Materials 4	5	1.25
Technology Education --- Power Tech 4	5	1.25
Technology Education --- Vis. Comm. 4	5	1.25
Family and Consumer Science 12	5	1.25
Instrumental Music 12		
Band Performance	1 -- 5	.25 -- 1.25
Orchestra Performance	1 -- 5	.25 -- 1.25
Chorus Performance	1 -- 5	.25 -- 1.25
Music Preparatory	4	1.00
Art 12	5	1.25
Photo and Film 12	5	1.25
Graduation Project		

[1]Successful completion of Computer Science 1 is required.
[2] Successful completion of Computer Science 2 is required.
[3] Successful completion of Computer Applications 1 is required.
[4] Successful completion of Computer Applications 2 is required.

VOCATION PROGRAM
TWELFTH GRADE

SUBJECT	PERIODS	UNITS OF CREDIT
Required		
Vocational	15	3.0
Business English 12 or C.P. English 12	5	1.25
US History II	5	1.25
Civic/Economics	5	1.25
Physical Education	1 -- 2	.25 -- .50

COURSE DESCRIPTIONS

Art

Art 7
5731, 5732
Introduces basic art principles and their applications through various media. Free expression is emphasized which encourages each student to develop his originality and creativity.

Art 8
5831, 5832
Reviews the basic art principles and develops them more fully to expand the student's knowledge of the various art media. Originality and creativity are encouraged through student participation in planning, completing and evaluating art projects.

Art 9
5131, 5132, 5133, 5134, 5135
An art course geared to expand the frame of reference built in the prior levels. In addition, through a history of art and art appreciation, an attempt is made to show how art affects our culture. At this level, special assistance is given the talented student to help him decide his future art. Provides the student with experience in various media and techniques. It is an exploratory course, which introduces activities in fine arts, commercial arts, crafts, and art appreciation. Thus, the student is exposed to activities, which develop his artistic talent, and enables him to decide if he desires to continue his art education in the senior high school.

Art 10
5230, 5231
Diversity in art is the theme here. This program provides further study in fine arts, commercial art, crafts, and art appreciation. Special effort is made to motivate the talented student to work independently in his free time on art projects best suited to his ability.

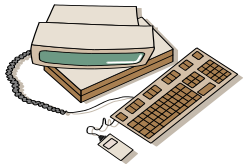
Art 11
5330, 5331
Eleventh grade art places continued emphasis on those concepts studied in the tenth grade. The fine arts, commercial art, crafts, and art appreciation again constitute the major phases of the course, however, instruction is given at a more sophisticated level. The approach encourages specialization in that art field appropriate to the interest and ability of the student.

Art 12
5430, 5431
Provides advanced instruction in the different art areas depending upon the student's interest and needs for the future. Each student is required to complete his personal art Portfolio containing all the necessary material for entrance to an art school, in case he may wish to pursue his art education beyond the high school.

Photography & Film 1
5360 (No Prerequisite)
The course is available five periods per week in both eleventh and twelfth grade. The 35mm photography course is recommended for the serious student who wants to develop personal creativity and technical skills. This is accomplished through visual problem solving, time management, and appreciation for the creative and aesthetic aspects of 35mm photography "Hands-on" photographic assignments include intensive outdoor shooting experience, indoor studio shootings, and creative darkroom printing techniques. Emphasis is place upon the integration of photography into other curriculum areas, and discussion of potential career choices. Also, emphasis is stressed upon the interactive relationship of 35mm Photography & Film to other curriculum areas including Mathematics, Science, English, etc.

Photography & Film 2
5960 (Prerequisite 35mm Photography & Film 5360)
The course is available five periods per week for the student who is interested in pursuing advanced topics within 35 mm photography. Emphasis is placed upon the development of abstract artistic skills and technical photographic skills. Subject composition and choice of photographic technique are dependent upon open-ended assignments, which gives the student freedom to create independent photographic experiences. Assignments are designed to investigate the overlapping relationships of fine art, editorial, and commercial still-life photography "hands-on" photographic experience will include intensive indoor and outdoor shooting assignments, and advanced darkroom-printing techniques. The completion of a professional Portfolio will be the student's ultimate goal. Throughout the course, each student will encouraged to interpret the interactive relationship of 35 mm Photography & Film to other curriculum areas including Mathematics, Science, English, etc.

Art Mixed Grades
5132
Tenth, eleventh, and twelfth grade students work together on group projects and aid individuals on art projects of various levels. Depending on their skill and previous art training, instruction is given in a variety of art media.



BUSINESS

Keyboarding
6122, 6125
This introductory course is taught on the microcomputer and combines the essentials of keyboarding and word processing. The emphasis is on the fundamentals of the alphabetic keyboard; however, basic principles of business letters and short reports are included. The class is held two periods per week for a full year or every day for a half year.

Computer Applications 1
6222
Using Micro Type Pro/Microsoft Word 2000 for Windows XP, students will learn to operate a keyboard by touch and begin development of acceptable speed and accuracy levels using computerized word processing software. Students will master specialized software functions while learning to prepare word processing, database and spreadsheet, and Power Point applications; some of these applications will include letters, reports, memos, tables, database design, and reports, use of a spreadsheet for numerical and financial data analysis and budget planning. This course is recommended for all students.

Accounting 1
6320
Principles of Accounting will introduce students to double-entry accounting as well as develop a basic understanding of a business financial operation. Students will be introduced to the accounting cycles of a proprietorship, a partnership and a corporation. Content includes recording daily transactions in a journal, transferring data to a ledger, preparation of financial statements for a business, and the completion of a business simulation. Students will gain insight into business decision making as they learn to interpret the financial information of a business. This course is recommended for those students pursuing careers in business and management.

Computer Applications 2
6322
Students will receive instruction in the use of a four-component business/industry level software program (Microsoft Office 2000 for Windows XP: Word, Excel, Access, and PowerPoint), which includes advanced levels of word processing, database, spreadsheets, and presentation visuals. Computer fundamentals will be taught in conjunction with the software program. In addition, students will perform various Internet search functions in conjunction with each of the components of this software program. This course is recommended for all students who have completed the Computer Applications 1 course, and who wish to enhance their information technology skills.

Accounting 2
6420
Advanced accounting emphasizes the principles of departmentalized corporate accounting. This course expands on topics introduced in the first-year accounting course while adding new topics about corporate accounting, budgetary planning and control, management accounting, cost accounting, and financial analysis. Students will complete a departmentalized corporate accounting business simulation. This course is recommended for those students who have a strong business in accounting and business management.

Business Technology
6423
Students will enhance their skills and knowledge of information processing through a variety of advanced technological, business-related computerized applications, projects, and office simulations. Students will prepare professional resumes and complete employment applications, learn to transmit and/or transfer computerized files via electronic mail, and explore telecommunications and the resources of the Internet as it relates to business use. Class projects will include advanced word processing, desktop publishing, web page design, presentation software, projects that will demonstrate the ability to plan, research, analyze and prepare a Multi-media presentation. This course is recommended for all students who have completed Computer Applications 2, and want to become more proficient in using all aspects of information technology skills.

ENGLISH

Advanced English
0710
Seventh grade advanced English includes all of the components in seventh grade English. The curriculum is developed at an accelerated rate, and more readings, writing, and research enrichment is provided with an emphases on critical thinking, reading skills, and research.

English 7
0720
Seventh grade English forms a solid foundation for the Secondary English Integrated Language Arts Program. Integrated Language Arts provides holistic instruction in reading, writing, listening, speaking, and research skills. Understanding fiction and nonfiction, components within/between texts, literary devices, and organizational concepts within texts assist in both understanding literature and developing reading skills. Various types of literature such as short story, novel, poetry and nonfiction receive student focus. Students use reader response journals, double entry journals, etc. as a guide to assist in understanding literature and making personal connections with literature. Students learn the five domains of good writing – focus, content, organization, style, and conventions – by producing works in the informative and persuasive modes. Process writing (prewriting, drafting, revision, editing, and publishing) and writing assessment blend with instruction throughout the English curriculum. Students also begin the process of research as they compose a paper using MLA style. Speaking and listening skills are developed through oral presentation of the research paper as well as other activities. Throughout the curriculum, technology is incorporated in applicable areas. Presentation portfolios are used to showcase students work in reader response, writing and research.

Developmental Reading 7
0721
7th Grade Reading is a course aligned to PSSA standards, anchors, and procedures and designed to help students develop independent reading skills that will enhance comprehension and the ability to utilize the information read. Reading skills to be learned include reading and following directions, finding the main idea, locating information, defining words using context clues and making inferences. A strong emphasis will be placed on the reading-writing connection through the course. Students will be responsible for producing a research paper in conjunction with the English and Social Studies Departments. Each faculty member in all subject areas is encouraged to become involved in the development of reading skills which are necessary to master higher order thinking skills and specialized subject matter content.

Humanities 7
0700
Set within four days of double class sessions, the 7th Grade Humanities program is designed to integrate and synthesize complementary aspects of West Hemisphere History, geography and period applicable literature as both reinforcement and enrichment. Guided by the principles of PSSA, the course provides daily opportunities for open-ended and more structured writing activities, with objective testing constructed around the eligible content/anchor generated paradigm. The Research Component is based upon core curriculum standards with heavier emphasis upon a more thorough type of investigation intended to identify possible future careers as well as reinforce more effective research, organizational and presentation skills.

Advanced English
0810
Eighth grade advanced English includes all of the components in seventh grade English. The curriculum is developed at an accelerated rate, and more readings, writing, and research enrichment is provided with an emphasis on critical thinking, reading skills, and research.

English 8
0820
Eighth grade English forms a solid foundation for the Secondary English Integrated Language Arts Program. Integrated Language Arts provides holistic instruction in reading, writing, listening, speaking, and research skills. Understanding fiction and nonfiction, components within/between texts, literary devices, and organizational concepts within texts assist in both understanding and literature and developing reading skills. Various types of literature such as a short story, novel, poetry and nonfiction receive students focus. Students use reader response journals, double entry journals, etc. as a guide to assist in understanding literature and making personal connections with literature. Students learn the five domains of effective writing – focus, content, organization, style, and conventions – by producing works in the informative and persuasive modes. Process writing,(prewriting, drafting, revising, editing, and publishing) and writing assessment blend with instruction throughout the English curriculum. Students also begin the process of research as they compose a paper using MLA style. Speaking and listening skills are developed through oral presentation of the research paper as well as other activities. Throughout the curriculum, technology is incorporated in applicable areas. Presentation portfolios are used to showcase students work in reader response, writing, and research.

Humanities 8
0800
Maintaining the four-day, double session format, the 8th Grade Humanities Program will focus upon the scope of World History emphasizing its contemporary impact and future implications. Period applicable literature (prose, poetry, excerpted historical documents, etc) will provide additional reinforcement, and relevant enrichment activities and connections. Guided by the principles of PSSA, the course provides daily opportunities for open-ended and more structured writing activities, with objective testing constructed around the eligible content/anchor generated paradigm. The Research Component is based upon core curriculum standards with heavier emphasis upon a more thorough type of investigation intended to identify possible future careers as well as reinforce more effective research, organizational and presentation skills.

Developmental Reading 8
0821
8th Grade Reading is a course aligned to PSSA standards, anchors, and procedures and designed to improve students' independent reading skills, introduced in the seventh grade, through the use of more advanced reading skills. The students will learn to read more critically. Reading skills to be learned include questioning the author (evaluating the credibility of the piece), recognizing bias, propaganda techniques and persuasive tactics. The reading-writing connection is an important component of the course. Students will be responsible for producing a research paper in conjunction with the English and Social Studies Departments. Each faculty member in all subject areas is encouraged to become involved in the development of reading skills which are necessary to master higher order thinking skills and specialized subject matter content.

English 9
0920
Previously emphasized instruction in integrated reading, writing, listening, speaking, grammar, usage, research permeate all areas of this course. Short story, poetry, prose forms, drama, comprise the literary component. Literary terms and skills receive reinforcement, and written responses to literature, using the Reader Response Journal, process writing strategies, the five domains of effective writing, and Writing Assessment form primary elements of this course. Students complete a three to four page research paper with varied sources. Research concepts such as note taking, avoiding plagiarism, composing a thesis statement, generating a works cited list, and research paper format are explained and implemented with writing strategies. Technology assists with the research and writing processes. Students compose several process writing compositions with a variety of topics, modes, and styles, and collect them in their Working Writing Folders. Annually, students select compositions from their folders and place them, along with their research papers, in their showcase Writing Portfolio. Each student composes a reflective letter about the Portfolio and presents the letter and Portfolio to next year's teacher. Students continue to expand their Reader Response Journals to activate prior reading knowledge, present concepts, questions, and interpretations as they are reading, and bring information, analysis, and opinion to literature discussions.

Advanced English 9/Humanities
0110
Students follow the previously explained criteria of Ninth Grade English, as they read, write, listen, speak, research, use technology, and participate in collaborative learning strategies at an accelerated rate. Integrated Language Arts becomes a solid holistic foundation for student exploration of literature. A variety of reading/writing experiences develop skill with cause-effect relationships, vocabulary development and usage, critical thinking (concepts, content, composition). Analysis, synthesis, and problem solving techniques complement the reading-writing features of the course and become assimilated into student discussion. The short story, drama (including Shakespeare), nonfiction (biographies and personal accounts, essays in the arts and sciences, poetry, and the epic) provide a variety of enrichment reading for student synthesis. Pre-reading focus, motivation, purpose-setting questions, cross-curricular connections, multiculturalism, themes and techniques, grammar and conventions — all play integrated roles in this profound precursor to the next level of Advanced English. Students use technology as a vehicle for communication and understanding and as a model of writing formats and techniques. Students compose a research paper in which research concepts such as note taking, avoiding plagiarism, composing a thesis statement, generating a works cited list, and research paper format are explained and implemented with writing strategies. They are encouraged to explore more in-depth approaches to knowledge acquisition. Students compose several process writing compositions with a variety of topics, modes, and styles, and collage them in their showcase Writing Portfolio. Effective writing domains- focus, content, organization, style, conventions — receive emphasis in writing instructional Assessment. Annually, students select compositions from their folders and place them, along with their research papers, in their showcase Writing Portfolio Each student composes a reflective letter about the Portfolio and presents the letter and Portfolio to next year's teacher. The Reader Response Journal provides a framework for integrating the Reading/Writing process. The course provides a framework for the continuation of student learning and achievement in the Advanced English Program.

Humanities 9
0900
Providing the student's final year of four day, double class sessions, the 9th Grade Humanities Program will focus upon American History (Early colonization through the Civil War) and its overall impact upon the home front as well as the World Stage. Literary selections that will help to synthesize and enrich the procedure will be provided in class on a daily basis along with relevant, outside readings intended to stimulate and strengthen the historical literary bond. Guided by the principles of PSSA, the course provides daily opportunities for open-ended and more structured writing activities, with objective testing constructed around the eligible content/anchor generated paradigm. The Research Component is based upon core curriculum standards with heavier emphasis upon a more thorough type of investigation intended to identify possible future careers as well as reinforce more effective research, organizational and presentation skills.

CP English 10
0220
College Preparatory Tenth Grade English presents a variety of American authors and settings within our national heritage for student exploration. Students interpret the American spirit in a multicultural kaleidoscope as they read critically to analyze and interpret the literature and its settings. Cooperative learning and understanding language in all of its ramifications, process writing in response to literature, vocabulary, conventions, speaking, and listening, using technology for communication and research – compose the instructional skeleton of the course. Students write a five to six page research paper in which they use a minimum of five varied sources, and they present an oral explanation of the paper and plan ideas for an Oral Presentation/Exhibition for the following year's Graduation Project. Their topic consists of an area of interest, specialization, or a career search. Technology assists with this process. Students compose several process writing compositions with a variety of topics, modes and styles, and collect them in their writing portfolios. Annually, students select compositions from their reflective letter about the portfolio and present the letter and portfolio to next year's teacher. Effective writing domains – focus, content, organization, style, conventions – receive emphasis in writing instructional Assessment. Literature, language skills, and research integrate within a setting that uses technology as a focal point for learning. Their reader response journal integrates thinking, reading, and writing.

Business English 10
0231
The Business English Curriculum consists of a balanced blend of reading, writing, grammar, proofreading, speaking, and other communication skills necessary for student adaptation to the present business community. The following communication skills receive special focus: resume writing, letter writing (applications, letters of all business types), interviewing, word-processing, using computers, other business computer technology skills, oral communication, and market research. Computer applications become functional components of the curriculum, with writing instruction as a recursive response to literature and medium for business expression. Business students compose a five-page research paper correlative with a business, career, or specialization topic, and they present an oral explanation of the topic in preparation for the Graduation Project of the following year. Students also prepare an exhibition of some aspect of this paper. Students are required to read literature, perceive its salient literary and application features, and respond accordingly in both speaking and writing. Writing workshops, language literary workshops and related skills broaden and deepen textual comprehension, while the reader response journal extends meaning and incorporates student opinion. Students compose several process writing compositions with a variety of topics, modes and styles, and collect them in their writing portfolios. Effective writing domains – focus, content, organization, style and conventions - receive emphasis in writing instructional assessment. Annually, students select compositions from their folders and place them, along with their research papers, in their showcase writing portfolio. Each student composes a reflective letter about the portfolio and presents the letter and portfolio to next year's teacher. The business curriculum, with its outstanding focus on solid communication skills, instructs our students in those areas of competence necessary to meet the needs of the business environment.

Advanced English 10
0210

Previous knowledge and skills continue to build with the Tenth Grade Advanced English Program. Reading American literature selections from numerous authors of our American heritage generates student ideas and written response to literature. The Reader Response Journal, process writing assignments and Writing Assessment complemented by writing instruction, with emphasis on revision strategies, synthesize a multiplicity of formats for student expression. Students study the various American Historical settings within the framework of the literature, similar to College Preparatory English. However, the context of the Advanced English Curriculum provides enrichment with multicultural supplemental reading and materials, more reading content with authors and selections studied, more challenging quality of student written responses, and a greater depth of understanding within the Integrated Language Arts curriculum. The teacher engages the learners with a more rapid pace and sustains that pace throughout the year. Students explore a field of interest or specialty or a career path as they write a five to six page research paper including at least five varied sources and spanning at least three curriculum areas, one of which is communications. In preparation for next year's Graduation Project, students compose a succinct thesis statement, expand author's voice, include authors' interpretations and their own conclusions. Oral Presentation Skills and independent projects are emphasized. Students compose several process writing compositions with a variety of topics, modes and styles, and collect them in their Working Writing Folders. Annually students select compositions from their folders and place them in their showcase Writing Portfolio. Each student composes a reflective letter about the Portfolio and presents the letter and Portfolio to next year's teacher. Technology is used in the process of composition, and students present an oral explanation of the paper and brainstorm ideas for an exhibition in the following year. Effective writing domains – focus, content, organization, style, conventions – receive emphasis in writing instructional Assessment. The Reader Response Journal continues to build a framework for the Reading/Writing connection. Advanced English 10 provides a rich learning threshold for students to explore their American literary and cultural heritage while they gain functional written and oral communication skills.

SAT Study Skills
2251

The SAT English Course is presented as an elective to sophomores, junior and seniors who are motivated to achieve high scores on the College board's SAT Examination – sentence completion, critical reading, grammar and writing. Strategies for taking the SAT are presented, explained and practiced, as students receive as much individual assistance as possible to ensure their success with the actual SAT Examination. Pre-Testing and post-teaching procedures document student improvement as the course progresses. Practice examinations are carefully explained as teacher and students review strengths and areas for improvement. Technology is integrated with practice lessons. Instruction correlated with actual testing procedures to assuage student test anxiety and promote student confidence.

CP English 11
0320
Eleventh Grade College Preparatory English selects a unique blend of English authors for student study and reflection. English literature becomes a breathing life force as students interact with text and each other to relate its messages to life. Chaucer, Spencer, Shakespeare, Donne, Dryden, Pope, Swift, Johnson, Romantic Poets, Victorian Poets, Hardy, Lawrence, Joyce, Orwell, Shaw, Yeats, Eliot receive foremost attention within their correlative historical settings. Within the Integrated Language Arts Curriculum, students explore English Literature, and respond in writing and speaking. The relationship of literature to the rest of the student's curriculum and to current events is a primary motivational factor for student acquisition of learning and synthesis of concepts. Cross-curricular themes of English literature – science, physical education, mathematics, and social studies – exemplify the universal, rather than topical, nature of literature, so that students become proficient in applying the literature to other classes and life experiences. Technology serves as the liaison to help accomplish this goal. Engagement of text with other study fields and life is a primary consideration for making this course palatable for students. Students interact collaboratively in groups to accomplish these goals. Students compose several process writing compositions with a variety of topics, modes, and styles, and collect them in their Working Writing Folders. Students maintain writing portfolios showcasing writing samples in all modes of discourse. Each student composes a reflective letter about the Portfolio and presents the letter and portfolio to next year's teacher. The Research component of CP English 11 is met in successful completion of the Graduation Project.

Business English 11
0331
Eleventh Grade Business English integrates reading, writing, grammar, proofreading, and speaking as it prepares students for adaptation to the present business community. The following communication skills are emphasized: resume and letter writing, interviewing, word-processing and other technology skills, and market research. Computer applications are functional components of the program, with writing instruction as a business and recursive cognitive tool for future employment. Business students compose a five-six-page analytical research paper concerning a business topic. Students also read various types of English literature, preferably those topics, which are adaptable to the business field, and respond accordingly, using oral and written communication skills. Writing and Language Workshops and Related Skills expand textual comprehension as the Reader Response Journal extends meaning and incorporates student opinion. Students compose several process writing compositions with a variety of topics, modes, and styles, and collect them in their Working Writing Folders. Effective writing domains - focus, content, organization, style, conventions — receive emphasis in writing instructional Assessment. Each student composes a reflective letter about the Portfolio and presents the letter and Portfolio to next year's teacher. The Research component of Business English 11 is met in successful completion of the Graduation Project. Students become proficient in all areas of English necessary to meet the demands of the growing technological business community.

Advanced English 11
0310
Eleventh Grade Advanced English kindles the fires of young minds by providing a variety of English literature selections and authors from diverse historical English backgrounds for student reading and interpretation. Selections from Anglo-Saxon, Medieval, English Renaissance, Seventeenth Century, Restoration and Eighteenth Century, Romantic and Victorian Ages and Twentieth Century engage students in a comprehensive study of English authors in their social, political, and literary contexts. Language conventions and usage assist in reader exploration and analysis, and the Reader Response Journal expands to include more encompassing textual and relevant ideas. Prior knowledge, the humanities, and artistic explorations connect to multicultural issues. Cooperative learning experiences balance critical thinking with reading to develop cross-curricular cognitive skills, speaking and listening. Writing, grammar, conventions, usage and collaborative discussion become formative knowledge bases for extension of ideas beyond the text. In addition to the Graduation Project, students also extend knowledge by writing a five to six page analytical literary research paper, in which they focus on interpreting critical information in their own writing style, become more proficient in using research paper format, and communicate their ability to analyze and interpret various aspects of literary style and technique Technology is implemented appropriately within this process and as a daily adjunct to assist written response to literature. Supplemental reading provides enrichment, as do several writing assignments, which use writing as an exploratory, recursive tool for reading. Students compose several process writing compositions with a variety of topics, modes, and styles, and collect them in their Working Writing

Folders. Effective writing domains – focus, content, organization, style, conventions – receive emphasis in writing instructional Assessment. Annually, students select compositions from their folders and place them, along with their research papers in their showcase Writing Portfolio. Each student composes a reflective letter about the Portfolio and presents the letter and Portfolio to next year's teacher. The course proceeds at a fast pace to incorporate this blend of reading and responding to English literature.

CP English 12
0420

College Preparatory seniors also study a variety of world authors within their time periods and settings. The scope of choices range from all over the world in multicultural perspectives. Students explore various literary types, styles, themes, insights, and connections, both cross-curricular and in American and British literature. Author biography and history form particularly solid benchmarks for understanding and interpretation. Students are guided by questions of levels of increasing complexity, recalling, interpreting (inference and analysis), and applying (generalization, extension, judgment). They progress according to their abilities. Thinking and writing frameworks provide written and oral response to literature as the models, graphic organizers, art transparencies, writing portfolios, computer grammar exercise banks, and vocabulary practice tests build and integrate the reading-writing language arts. Indigenous to the text are suggested writing assignments, which relate to areas across the curriculum. Students use technology to guide writing, to aid reflection,and to research topics. They compose a five-six-page cross-curricular research paper, which reflects mastery of all previous research writing skills. Students compose several process writing compositions with a variety of topics, modes, and styles, and collect them in their writing portfolio. Effective writing domains - focus, content, organization, style, conventions — receive emphasis in writing instructional Assessment. To write is to think, and all senior college preparatory students read writing to write reading as they practice cognitive thinking skills to adapt to their future environments.

Business English 12
0431

Twelfth Grade Business English integrates reading, writing, grammar, conventions, proofreading, and speaking as it prepares students for adaptation to the present business community. The following communication skills are emphasized: resume and applications, cover letter writing, interviewing, word-processing technology skills, and market research. Computer applications are functional components of the program, with writing instruction as a business and recursive cognitive tool for future employment. Students compose several process writing compositions with a variety of topics, modes, and styles, and collect them in their Writing Folders. Effective writing domains - focus, content, organization, style, conventions — receive emphasis in writing instructional Assessment. Business students compose a four to eight page research paper about a topic adapted to business. They study world authors and literature. Students strive to generate meaning from the text through adaptation of critical thinking skills and envisioning broader connections. Writing to text, also with the Reader's Response Journal, offers a powerful context for clarifying understanding and sharing collaboratively with others. Writing before reading helps students connect the reading they will do with what they already know and experience, and writing after reading provides students with opportunities to connect the reading they have done to other areas and experiences in the business world. Setting objectives, exploring background, providing guided and independent practice, using peer strategies, assessing learning - all reflect viable communication skills for future use in the business world.

Advanced English 12
0410

The Advanced English Program reaches its zenith of quality with the senior study of world literature. Within a varied integrated language arts framework, students read authors from all ages in multicultural settings throughout the world: the East (Sumerian, Egyptian, and Hebrew); Asia (India, Chinese, and Japan); Classical (Greece, Roman); Europe (Middle Ages, Renaissance, Rationalism, Romanticism, and Realism); Twentieth Century (Modern and Contemporary). The number and variety of selections offer choice and student flexibility as the reading progresses at an accelerated rate. The writing component also assumes varied formats- process, expository, creative, Reader Response Journal, Writing Assessment with writing instruction and revision. Students compose several process

writing compositions with a variety of topics, modes, and styles, and collect them in their Writing portfolios. Opportunities for student participation with speaking, in both group and individual presentations, collaborative learning experiences, and kinesthetic projects abound. The research component also offers challenge. Student refine and polish all previously acquired research skills as they compose a six to eight page cross-curricular paper with several varied sources. Language, grammar, vocabulary skills receive sophisticated attention. History and biography blend with the literature to reflect cross-curricular cultural settings and assist students with cognitive connections of diverse backgrounds and topics. Allusions to both American and British literature also generate ideas for students synthesis and analysis. The Senior Advanced English Program complements, polishes, broadens, and applies all previous integrated language arts instruction.

Advanced Placement English Literature and Composition 12
0415

Advanced Placement Senior English correlates with the Advanced Placement Program Course Description from The College Board. The course emphasizes the careful reading and critical analysis of imaginative literature. Through close reading of selected texts, encompassing a variety of historical periods, genres and countries, students deepen their understanding of the ways writers use language to provide meaning and pleasure for readers. Students analyze literary techniques, such as structure, style, theme, figurative language, imagery, symbolism and tone.

The ultimate goal of the AP Program is to prepare students to become proficient in literary interpretation and writing skills for the annual AP Examination, which they are required to take. The course provides instruction with higher order thinking and writing skills necessary for attaining at least a three, indicating qualified, on the multiple choice and writing sections of the AP Examination. These critical thinking/writing skills can be transferred to any framework or subsequent course requiring them.

Therefore, writing assignments focus on the critical analysis of literature, particularly expository, analytical and argumentative essays. Writing to analyze and evaluate literature involves research, which examines differing critical perspectives, stylist maturity and clear, coherent organization. A variety of opportunities and formats for writing is provided. Student produced writing reinforces the reading. As such, reading and writing stimulate and support each other and are taught together to highlight common and distinctive elements.

Project Student 10
0200

The independent learning project of Project Study is intended to supplement learning experiences in the school curriculum. Its basic purpose is to offer Academically Talented Students the opportunity to implement concepts learned in class or to do research related to course content.

This program is oriented to individual student participation. A teacher-advisor is assigned to confer with students on a weekly basis to direct the project and approve topic selection. Because of the individual programming involved, the exact amount of time each student meets with the teacher-advisor is a matter to be determined by the nature of the assignment.

Within the framework of the independent learning project, a learning contract is employed between student and teacher-advisor to describe the assignment and requirements for completion. During each quarter, the student confers with the teacher-advisor to determine the conditions of the project. A given amount of work is designated for a specified time, and the method of evaluation is ascertained.

Project Study 11
0300

The independent learning project of Project Study 11 is intended to supplement learning experiences in the school curriculum. Its basic purpose is to offer Academically Talented Students the opportunity to implement concepts learned in class or to do research related to course content.

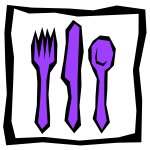
This program is oriented to individual student participation. A teacher-advisor is assigned to confer with students on a weekly basis to direct the project. Because of the individual programming involved the exact amount of time each student meets with the teacher-advisor is a matter to be determined by the nature of the assignment.

The student confers with the teacher-advisor to determine the conditions of the project. A given amount of work is designated for a specified time, and the method of evaluation is ascertained.

Project Study 12
0400

Seniors who have successfully completed project study 0200 or 0300 and are recommended by the A.T.P. teacher in that building may select project study 0400. In the senior year, this course is typically a college course taken at King's College in the College Discovery Program or at Wilkes University in the Young Scholars' Program. Conferences must be scheduled with the home school A.T.P. teacher to prepare the Individualized Education Program as an on-going process check. If this course is one of five majors, it must be counted toward that student's grade point average.

FAMILY AND CONSUMER SCIENCE



Family and Consumer Science 9
7130, 7950
The fundamentals of food preparation and clothes making are taught at both grade levels. However, the eighth grade student is expected to learn techniques of cooking and sewing beyond the fundamentals. The program stresses the proper use of kitchen utensils and equipment and the care and use of the sewing machine. It further provides for individual participation through assigned cooking and sewing projects.

Family and Consumer Science 10
7250
The course is scheduled five periods per week. The program here lays stress on the word "home." Childcare, health standards, sick room etiquette, home decorations, entertaining, and clothing begin to have more meaning for each student and provide a basic foundation for Homemaking III and Family IV.

Family and Consumer Science 11
7350
Family and Consumer Science 12
7450
The course is scheduled five periods per week in each grade. Compared to courses in lower grades this program is more practical and sophisticated. It deals with the most modem skills in child care, parenting, complete menu preparations, menu planning, the effective use and care of cooking utensils and equipment, designing and making clothes from the simple to formal wear, home decorating and furnishing, budgeting, renting, buying, owning, the use of modem laundry, health education and consumer management.

FOREIGN LANGUAGE

French 1
1120
French I is designed to introduce all four skills necessary to language learning: listening comprehension, speaking, reading, and writing. Tapes based on the text enforce the listening comprehension. Enrichment materials such as songs, games, maps, and pictures add variety and sustain interest.

German 1
1121
This course presents to the student the basic sounds of German in simple conversational patterns followed by the reading and writing of simple German. Vocabulary and basic grammatical concepts are acquired. Students gain some knowledge of German culture and civilization through consideration of daily activities of the people**.**

Spanish 1
1123
An introduction to the sounds and structure of Spanish with an emphasis on the spoken language in the presentation of basic grammar and vocabulary. Vocabulary development with emphasis on high frequency words used in daily life.

French 2
1220
French 2 continues development of hearing, speaking and comprehension abilities initiated in French 1. There is increased emphasis on reading and writing. Verb study is expanded; French is the language of the classroom; grammar is reviewed and reinforced and more complicated structures are presented. Students are encouraged to develop practical and realistic goals of travel and further study. French club and pen pals in France stimulate further interest in the target language, its people, its culture, and its country**.**

German 2
1221
This course first reviews the basic grammatical concepts and then proceeds with the practice of listening, speaking, reading, and writing of more advanced forms of the language. There is greater stress on diction, vocabulary development, and the more difficult grammatical structures. New phases of German culture and civilization are introduced. A supplementary reader is used if time permits.

Spanish 2
1223
A continued emphasis on correct pronunciation, grammar, vocabulary, composition, oral practices, and reading are the basis for this course. Cultural aspects developed through consideration of daily aspects of Spanish and Hispanic life.

French 3
1320
Review of fundamentals of grammar with emphasis on more difficult aspects. Vocabulary building and active use of the language. Introduction to French literature. Free and directed composition.

German 3
1321
The third year course increases the student's control of the essential patterns of German listening, speaking, reading, and writing. There is a continued development of vocabulary, active and passive. The finer points of grammar and composition, both oral and written, are introduced. Literary selections are based on the ability, interest, and maturity of the students. Aspects of daily life, which contribute to cultural understanding, may include government, education, geographic factors which affect economic life and history.

Spanish 3
1323
Review of the fundamentals of grammar with emphasis on new and more difficult aspects of the Spanish language. Refinement of pronunciation and intonation increased oral practice to develop conversational skills, free and directed composition to increase skill in writing literary works are consistent with the interest and ability of the students**.**

French 4
1420
Major emphasis on cultural activities, which will familiarize the student with the historical trends in French literature as exhibited in various genres.

German 4
1421
Continues to build an understanding of advanced grammar and composition with additional vocabulary study. These points are stressed; a broader knowledge of the language, oral and written; a better understanding of the history, institutions, ideals, culture of Germany; a comparison and contrast of our language and culture with that of Germany. Assessment of culture continues through study of literature selected with ability and interest of the students the determining factor**.**

Spanish 4
1423
Continued review of fundamentals of grammar with emphasis on newer aspects and exceptional aspects of the Spanish Language. Refinement of pronunciation, development of ability to comprehend native speakers and to speak in context understandable to native speakers. Continued consideration of characteristics of Hispanic life. Selection of literature is based on ability and interest of students.

MATHEMATICS

Math 7
3722
This course begins with basic operations of mathematics including decimals and fractions along with estimating and rounding skills to determine the reasonableness of answers. Further topics include ratio, proportion and percent. Pre-algebra is introduced including integers and all operations using integers along with patterns and number sense, together with GCM and LCM. An introduction to Algebra is addressed including order of operations, expressions and equations. A beginning to the coordinate plane is also focused on. Measurement conversions are studied using the PSSA formula sheet. From there, Probability and Statistics including measures of central tendency and probability of simple and compound events are examined. Following that, topics in Geometry are concentrated on including lines, angles, polygons, and circles. Area, perimeter and volume are investigated. If time permits, square roots and the Pythagorean theorem are introduced. Problem solving strategies are introduced early on and carried throughout the course**.**

Advanced Math 7
3724
The emphasis of this course is to prepare students for Algebra at an advanced level. This course begins with a review of fractions and mixed numbers. Following that, pre-algebra topics including integers and operations using integers are introduced. Then an introduction to Algebra is covered including variables, expressions, exponents, and solving equations. From there, a review of ratio and proportion is launched including rates, scale drawings and the distance formula. Unit conversions are studied including metric and customary systems, time and temperature and addition and subtraction of measurements. The coordinate plane including terminology, plotting points, and graphing linear equations is covered. Probability and Statistics is exposed to ensure proficiency on the PSSA test. Topics include probability of independent and dependent events and the counting principle. Statistical topics include line, bar and other types of graphs and measures of central tendency. Plane Geometry topics are studied including terminology, angle relationships, polygons, measurement of angles, Pythagorean theorem, properties of circles, area, and volume. Solving, graphing and checking solutions to inequalities are shown. Properties of exponents are studied. The course concludes with a review of decimals and three-dimensional geometry. Problem solving strategies are introduced early on and carried throughout the course. **Note:** Students for Advanced Math 7 are based on selection and approval.

Pre Algebra 8
3822
The emphasis of this course is to prepare students for Algebra. This course begins with pre-algebra topics including integers and operations using integers. Then an introduction to Algebra is covered including variables, expressions, exponents, and solving equations. Solving, graphing and checking solutions to inequalities are shown. The coordinate plane including terminology, plotting points, and graphing linear equations is covered. Probability and Statistics is covered to ensure proficiency on the PSSA test. Topics include probability of independent and dependent events, counting principle, permutations and combinations. Statistical topics include line, bar and other types of graphs and measures of central tendency. Plane Geometry topics are studied including terminology, angle relationships, polygons, measurement of angles, Pythagorean theorem, three dimensional shapes, nets, surface area, and volume. Ratio, proportion and percent topics are reviewed including rates, scale drawings, similar shapes, indirect measurement and sales tax. The course concludes with a review of unit conversions, decimals, and fractions. Problem solving strategies are introduced early on and carried throughout the course**.**

Advanced Algebra 8
3818
This course stresses the concept and problem solving characteristics of Algebra. The main focus is on application, skills, and problem solving. Topics include solving and checking first-degree equations. Students are then introduced to the coordinate plane, graphing linear equations, slope and writing linear equations. Students are shown scatter plots and lines of best fit using a graphing calculator. After a review for the PSSA test, students learn systems of linear equations and the three methods used to solve them. Students are taught inequalities including checking, solving, graphing, translating, and writing them. A thorough study of powers and exponents are covered including abstract concepts such as negative and zero exponents. Radical expressions are introduced for the first time including simplifying, operations using radicals, and rationalizing denominators. At this point, the Pythagorean theorem is presented. Following this, an exhaustive study of polynomials is initiated. Topics include identifying polynomials, operations, GCF, LCM and factoring using various methods. The course concludes with rational expressions together with simplifying, operations on, and solving equations. If time permits, quadratic equations are covered. Problem solving strategies are introduced early on and carried throughout the course. **Note:** Students for Advanced Algebra 1 are based on selection and approval. This course is only open to eighth grade students. A strong background in pre-algebra is necessary for success in this course.

Applied Algebra
3223
This course is offered as an alternative to Algebra 1. It will cover topics in Algebra but at a modified approach. The course begins with a study of number and number operations. Topics include integers, operations using integers, and order of operations. Students then study algebraic expressions followed by linear equations. Students will be taught one, two and multiple step equations including word problems. Following that, a study of inequalities is started including the topics of solving and graphing. Students are then introduced to the coordinate plane, graphing linear equations, slope and writing linear equations. Students are shown patterns and functions and how to use a graphing calculator to find the line of best fit and scatter plots. Students learn systems of linear equations and the three methods used to solve them. A thorough study of powers and exponents are covered including abstract concepts such as negative and zero exponents followed by scientific notation. Following this, a study of polynomials is initiated. Topics include identifying polynomials, operations, GCF, LCM and factoring using various methods. Rational expressions together with simplifying, operations on, and solving equations are taught. At this point, the Pythagorean theorem is presented. The course concludes with logical thinking and probability, and additional topics that will be included on the 11th grade PSSA test. Problem solving strategies are introduced early on and carried throughout the course**.**

Algebra 1
3123
This course stresses the concept and problem solving characteristics of Algebra. The main focus is on application, skills, and problem solving. Topics include solving and checking first-degree equations. Students are then introduced to the coordinate plane, graphing linear equations, and slope and writing linear equations. Students are shown scatter plots and lines of best fit using a graphing calculator. Students learn systems of linear equations and the three methods used to solve them. Students are taught inequalities including checking, solving, graphing, translating, and writing them. A thorough study of powers and exponents are covered including abstract concepts such as negative and zero exponents. Radical expressions are introduced for the first time including simplifying, operations using radicals, and rationalizing denominators. At this point, the Pythagorean theorem is presented. Following this, an exhaustive study of polynomials is initiated. Topics include identifying polynomials, operations, GCF, LCM and factoring using various methods. The course concludes with rational expressions together with simplifying, operations on, and solving equations. If time permits, solving quadratic equations is introduced. Problem solving strategies are introduced early on and carried throughout the course. A strong background in pre-algebra is necessary for success in this course. A graphing calculator will be used to help solve problems. **Note:** This course is the foundation for all other courses that follow**.**

Applied Geometry
3323
This course is offered as an alternative to Geometry. This course builds on the knowledge obtained in Applied Algebra or Algebra 1. This course begins with the study of the basics of geometry. Topics include segments, angles, points, lines, planes and the midpoint formula. Special properties of angles and lines including theorems and postulates are covered. Triangles are studied exhaustively including classifications, theorems, properties and terminology. Following this, polygons are studied in-depth including identifying parts, classifying, and quadrilaterals. Similarity is introduced and taught regarding triangles as well as right triangles. Uses of the Pythagorean theorem are studied. The course concludes with a comprehensive study of circles along with perimeter and area of polygons. Surface area and volume of three-dimensional figures is reviewed. Problem solving strategies are introduced early on and carried throughout the course.

Geometry
3231
This course builds on the knowledge obtained in Advanced Algebra 1 or Algebra 1. This course begins with the study of analytic and coordinate geometry. Topics include a review of slope, determining an equation of a line, parallel and perpendicular lines, simplifying radicals and distance and midpoint formulas. A review of solving systems of equations is then covered. After this quick review of Algebra, the fundamentals of geometry are taught. Postulates for segments, angles, points, lines and planes are introduced. Next, styles of proofs are studied followed by the properties of parallel lines. Triangles and their properties are studied in-depth along with their theorems. At this point, proofs are introduced. This abstract concept is then carried on throughout the remainder of the course. Polygons are studied exhaustively including identification of parts, classifying, theorems, properties and proofs. Similarity is introduced and taught regarding triangles as well as right triangles. The course concludes with a comprehensive study of circles along with perimeter and area of polygons. Surface area and volume of three-dimensional figures is reviewed. Problem solving strategies are introduced early on and carried throughout the course. **Note:** A strong background in algebra is necessary for success in this course**.**

Integrated Math
3311
This course combines topics from Algebra 1, Algebra 2, Trigonometry, Statistics, Data Analysis, and Geometry. Topics covered include numbers and number operations, estimation, linear equations, inequalities, patterns, functions, relations, system of equations, polynomials, distance and midpoint formulas, angles, triangles, quadrilaterals, circles, perimeter, area, circumference, surface area, volume, square roots, Pythagorean theorem, congruency, similarity, probability, odds, data analysis, measures of central tendency and rates of change. This course is intended to prepare for the Pennsylvania System of School Assessment (PSSA) test. A graphing calculator will be used to help solve problems. **Note**: The course is only open to juniors.

Algebra 2
3325
This course extends the concepts learned in Algebra 1 and stresses applications and problem solving. Topics include a quick review of Algebra 1 including expressions, equations and order of operations. Then, an in-depth study of Algebra 2 is taught. These topics include graphing and writing linear equations and direct variation. Inequalities are studied including solving and graphing. For the first time, absolute value equations and inequalities are introduced and considered. Systems of linear equations are reviewed followed by a more in-depth analysis. Systems of linear inequalities are introduced and mastered. Quadratic equations and the various methods to solving them are explored followed by quadratic inequalities. From there, functions and relations are covered preparing the student for Trigonometry and Algebra 3. Powers, roots and radicals are taught exhaustively. Applications of topics in algebra including exponential growth and decay are studied along with compound interest. Following this, a comprehensive study of polynomials is initiated. Topics include identifying polynomials, operations, graphs, and factoring completely using various methods. Polynomial division is introduced here as well. At this point a review for the PSSA including a review of the measures of central tendency, data analysis, patterns, rates of change, and probability is started. Following the PSSA, rational functions together with simplifying, operations on, and solving equations are examined. Inverse and joint variation is studied along with finding rational zeros. Complex fractions are introduced for the first time. The course concludes with a study of matrices including operations and properties. Problem solving strategies are introduced early on and carried throughout the course. A graphing calculator will be used to help solve problems. **Note:** A very strong knowledge of Algebra 1 is crucial for success in this course.

Practical Mathematics
3424
This course is designed to fill the immediate needs of students entering society. The course stresses those applications of mathematics they are a part of everyday living. Topics include jobs, computing pay, automobile expenses, insurance, taxes, budgets, commissions, deductions, wages, salary, banking, housing, remodeling, recreational expenses, credit cards, checking and savings accounts, transportation costs, housing costs, and household budgets. **Note:** The course is only open to seniors.

Trigonometry/Algebra 3
3526
A comprehensive study of coordinate systems, circular functions, identities, functions involving more than one variable, inverse functions, trigonometric functions, trigonometric equations, graphing, trigonometric identities, triangles and trigonometry, exponential and logarithmic functions and polar coordinates will be studied. After a review for the PSSA test, vectors, analytic geometry, complex numbers, series, sequences, functions, limits, polynomials, derivatives and equations, limits, derivatives, and truth tables are investigated. Problem solving strategies are introduced early on and carried throughout the course. A graphing calculator will be used to help solve problems.

Calculus
3423
The purpose of this course is to present the concepts that lie at the heart of calculus. The course begins with a study of analytic geometry including the topics of slope, distance formula, midpoints and equations of parallel and perpendicular lines. Following this, functions are reviewed and mastered. Pre-calculus is introduced including limits, derivatives, continuous functions and problem solving. Calculus topics include the treatment of functions, series, sequences, limits, continuity, exponential functions, convergence, the derivative, applications, the integral, maxima/minima, partial derivative, rules for differentiation/integration, conic sections, and vectors. Problem solving strategies are introduced early on and carried throughout the course. A graphing calculator will be used to help solve problems. **Note**: A strong background in Trigonometry/Algebra 3 is needed for success in this course.

Advanced Placement (AP) Calculus AB
3413
This course covers the topics in the calculus course but at a faster pace to prepare students to take the AP Calculus AB Exam.

Probability and Statistics
3412
This is a basic course that introduces frequency distributions and graphs, measures of central tendency (mean) and variation (standard deviation), counting techniques, probability, binomial distribution, normal distribution, confidence intervals, hypothesis testing, correlation and regression. The course emphasizes problems from social, behavioral, and biological sciences. A graphing calculator will be used to help solve problems. Problem solving strategies are introduced early on and carried throughout the course. **Note**: The course is only open to juniors and seniors who have completed Algebra II.

SAT Study Skills
2252
A course that covers a complete review of topics in the New College Board's SAT. Main sections include Arithmetic, Numbers and Operations, Algebra and Functions, Geometry and Measurement, Number Patterns, Probability, Statistics and Data Analysis. All topics focus on a students reasoning and problem solving abilities. Other higher order problems include, but are not limited to, functional notation, radical equations, negative exponents, absolute value, quadratic functions, tangent lines, geometric probability and trigonometry. Practice and diagnostic tests are given as a means of determining students' strengths and weaknesses. **Note:** A background in geometry and algebra is strongly recommended.

Computer Science 1
3950
Visual Basic, a beginners programming language will be studied. A hands on approach will be used in decision-making strategies, logic, variables, data types, and loops to help students develop problem-solving skills. This course provides the first opportunity to view computer science as field of study thereby opening up multiple career choices.

Computer Science 2
3951
This course will cover Microsoft Windows programming through hands on experience. Students will be able to create stand-alone Windows applications. The course will cover the creation of Windows controls: buttons, scroll bars, and dialog boxes etc. Attaching codes to these controls will be covered extensively based on the commands and procedures studied in Visual Basic. **Note:** This course is only open to students who completed Computer Science 1.

Computer Science 3
3952
This object-oriented approach to programming is taught with an emphasis on good programming skills. Important topics such as libraries, classes, header files and student written functions are covered in detail. Students will develop classes that will be used to create programs. Arrays, pointers and file manipulation will be described and implemented by students in this advanced programming class. Note: This course is only open to students who completed Computer Science 1 & 2.

MUSIC

General Music 7 & 8
8832
The course is designed so the student may develop an awareness for music, may become familiar with music vocabulary and the sound of various musical styles from different cultures, may gain a knowledge of instruments of the orchestra and the lives of various composers, and may learn proper vocal techniques through classroom singing in a non-performance environment. This is done through listening, singing, reading, discussion. The goal of this course is to acquaint the student with sufficient musical knowledge and background to enjoy and understand all musical styles.

Instrumental Music 7
8741- 8742
Instrumental Music 8
8841- 8842
Instrumental Music 9
8141- 8145
Students of all educational levels are invited and encouraged to learn an instrument of their choices. Students will learn the fundamentals of a musical instrument, which will adequately prepare them to participate in ensembles and group performing organizations.

Rudiments include tone production, fingering, techniques, rhythm, musicianship, listening, critiquing and the important of music in the lives of the students.

Course Enrollment Guidelines
(7th & 8th)
Students of all educational levels are afforded the opportunity to learn an instrument regardless of prior experience. Prior experience is encouraged but not required. All students who demonstrate an interest are encouraged to participate. Students must demonstrate a level of proficiency on their instrument before membership in a performance organization can be obtained.

Orchestra Performance
8921- 8925
Chorus Performance
8941- 8945
Band Performance
8951- 8955
These courses offer extended opportunities to musically gifted students to increase their vocal and instrumental abilities by a daily-supervised rehearsal. Techniques of ensemble playing and singing are practiced and discussed at these scheduled rehearsals Courses also offer advanced preparation and experience for public performance, including participation in high school orchestra, chorus and band activities as well as P.M.E.A. District and Regional Festivals. Materials used in each performance area are geared to pupil ability and enrollment and are selected from P.M.E.A. as well as reputable music periodical graded listings.

Instrumental Music 9 **8141-8145**
Instrumental Music 10 **8241-8245**
Instrumental Music 11 **8341-8345**
Instrumental Music 12 **8441-8445**

A sequential course of study in which students increase and develop instrumental performance skills individually and in ensemble, with emphasis on accurate interpretation of the music studied. Band and relevant music materials are studied to prepare students for individual performance and membership in Band, Orchestra and small instrumental ensembles.

Students should have previous experiences in band or orchestra classes to perform music at the 9th to 12th grade levels.

Consideration will be given to the student's knowledge, performance skills, and motivation for enrollment in the course.

Chorus Performance
8941-8945
This course is for all students in grades 9 through 12, who are interested in choral singing, regardless of their musical background or experience. The students are taught the correct techniques for vocal production and the art of choral and part-singing. Students are divided according to their vocal range into soprano, alto, tenor, or bass sections. Students are prepared for a program of concert music, which is presented in public performance each semester. Students with singing ability may audition for participation in the P. M. E. A. Festivals, Songfests and County Chorus.

Band Performance
8951-8955
Orchestra Performance
8921-8925
A performing class in which students, through studying a widely varied repertory, sequentially and systematically, develop ensemble and solo performance skills. Emphasis is placed on accurate interpretation of the music studied. Performance requirements will be in direct proportion to the number of periods a student may be enrolled in the band course**.**

Music Preparatory Therapy
8934
The music course is designed so that the student may further his ability to read and interpret music notation. Through this course, the student will become familiar with the music vocabulary and the sounds and styles of various periods and listen to music with a greater understanding and comment intelligently on its form, historical period, etc. The student will develop his potential regarding special interests and gain some of the experiences in performance classes. Topics and materials (not listed in the course of study), relevant to the needs of the individual student or group which are educationally acceptable, may be inserted in the program**.**

PHYSICAL EDUCATION

Physical Education 7 9723
Physical Education 8 9823
Physical Education 9 9123
The junior high school physical education program is devoted primarily to the progressive development and perfection of basic physical skills. In general, it is designed to enable students to participate effectively in psychomotor activities, which leads to desirable modifications in knowledge, habit, skills, ideas, and attitudes. Based on the individual's sex and health status the mode of instruction is centered around body mechanics, aquatics and water safety, sports and games, tumbling and stunts, rhythmical activities, physical recreation, co-educational activities, and the proper use of physical apparatus. As a necessary supplement to the basic program, certain game skills are stressed to encourage interest and participation in intramural and interscholastic athletic events and lifetime sports.

Health Education 8 9843
This junior high school course is designed to meet the immediate personal health, safety and recreational needs of the early adolescent. It effectively provides basic information and experiences in formation of the individual's personality and family membership. It briefly describes basic first aid skills, the systems of the body, good nutritional habits, and adequate introductory material on tobacco and drug abuse, recreational and water safety activities and individual-community health needs. Human sexuality is offered as part of the health course to all students, with parental approval, who have signed and returned the school district's consent form.

Health Education 9 9123
All secondary school health requirements are met at the 9th grade level. The course contributes to the health and safety of the students by developing a basic understanding of human anatomy, physiology, and hygiene. The understanding of preventative accident techniques and human care of the injured is taught during the first aid segment of the course. The ability to cope and respond during a natural disaster or nuclear accident will also be discussed. Human sexuality is offered as part of the health course to all students, with parental approval, who have signed and returned the school district's consent form. All students will learn about alcohol, drug, and tobacco use and abuse, understand diversity, culture differences. Wellness and Health choices for better emotional, social, and physical health.

SCIENCE

Integrated Science 7
4720
Science 7 is a selected integrated science program that emphasized both basic content and the processes of science. Simple lab experiences and demonstrations are used to illustrate both principles and techniques used by scientists. This course is divided into five strands: (1) physical science (2) life science (3) earth science (4) environmental science and (5) chemistry.

Science 8
4820
Science 8 provides both basic content along with the processes of science. Lab experiences and demonstrations are used to illustrate and clarify scientific principles and techniques. Both Science 7 and Science 8 supply excellent foundations for later science courses.

Earth and Space Science
4130
This course relates people to their physical environment from the surrounding locale to the reaches of the universe. It consists of an interdisciplinary study of principles of geology, paleontology, ecology, paleontology, meteorology, astronomy, oceanography, space science, and the environment. This course is probably the most useful course of all to students in regard to their everyday experiences in the natural world. Laboratory experiences, demonstrations, and multi-media presentations are used to illustrate principles.

C.P. Biology (9th)
4223
Although this course is designed for college-preparatory students, those who plan career fields requiring a sound background in biology should also select it. Process skills, lab investigative techniques, and basic concepts learned in earlier science courses are used and expanded in the study of plant and animal life, the environment, structural ecology and functional differences, and heredity. If taken in ninth grade student must have an A/B average in previous science courses and teacher recommendations.

C.P. Biology
4223
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General Biology
4227
This course is designed for non-college prep students. Course content has been adjusted so that basic biological concepts and problems are considered from the personal view of students and their daily lives. The laboratory program provides excellent science experiences, but the treatment is less rigorous than Biology 4223.

C.P. Chemistry
4325
This is an introductory chemistry course for college preparatory students. Emphasis is on scientific method, basic chemical principles, chemical calculations, problem solving, and laboratory methods. Descriptive chemistry is undertaken where necessary for course continuity. Inquiry teaching strategies are used wherever possible. Use of calculators and computers is encouraged in solving assigned problems throughout the school year. Students who plan scientific careers are encouraged and expected to elect Chemistry 2 (4415) as a necessary follow-up for this introductory course. Prerequisite CP Biology

Biology 2, Advanced
4413
Biology 2 is designed for high school seniors and juniors previously credited with a first biology course (C.P. Biology). Principal activities are laboratory investigations involving students in activities comparable to professional biologists and their problems. Content includes the process of biological investigations; statistical evaluation of data; anatomy and physiology of living systems, cell processes, and cytogenetics. Biology II is scheduled seven periods each week, including two double laboratory periods. PREREQUISITES: C.P. Biology, Chemistry 1

Chemistry 2, Advanced
4415
Chemistry 2 is a laboratory-oriented elective course available to students who will pursue careers in the sciences. It consists of selected topics and basic principles of inorganic, organic, analytical, physical, and radiochemistry. Mathematics treatment is more rigorous than Chemistry 1. College-level multi-texts are used, and a seminar type atmosphere prevails. This course, along with C.P. Chemistry, should adequately prepare the conscientious student . For college equivalency examinations. Classes meet seven periods each week. PREREQUISITES: Chemistry 1

Science 3 Seminar
4417
This course is designed for special science topics agreed between teacher and students. Lab work and independent study are emphasized. It is oriented toward each student's unique needs in college science or other career goals. Schedule is flexible. Research, lab projects, and computer technology are emphasized. PREREQUISITE: any science 2 course with the minimum of "C" average.

Science and Technology
4421
This new course combines basic principles of science with practical applications for a better understanding of the role of science in our daily lives. The integrated approach is presented in a manner readily understood by average

students. Discussion of science topics affecting social issues are discussed. Mathematics is used only when necessary to the understanding of the concepts. The course is divided into four quarters with selected topics from chemistry, physical science, geology, and life science.

C.P. Physics
4424
The fundamental concepts involving energy-matter relationships in our physical world are studied in terms of mechanics, heat, sound, electricity, light and nuclear energy. Many examples and illustrations involving the practical application of basic scientific principles are given. Laboratory experiences provide reinforcement of basic scientific principles but in addition provide opportunity for the developing of laboratory skills and techniques. Those students desiring careers in science, medicine, engineering and mathematics should take this course**.**

Advanced Placement (AP) Physics B
4419
The AP Physics B course consists of selected topics from both Newtonian and relativistic concepts of the physical world treated in a seminar-type atmosphere. Its mathematics treatment is the most demanding of the entire science sequence. Project-type laboratory experiences are used. This course should be taken by science-major, college-oriented students with an interest in the sciences and engineering. Classes meet seven times each week, including two double laboratory periods. At the discretion of the instructor, additional laboratory time is available to students. The course prepares students to take the AP examination for college credit PREREQUISITE PHYSICS 1

Advanced Placement (AP) Chemistry
4420
This course is designed to be the equivalent of the general chemistry course usually taken during the first college year. The AP Chemistry course is designed to be taken only after the successful completion of a first course in high school chemistry. In addition, the recommended mathematics prerequisite for an AP Chemistry class is the successful completion of a second-year algebra course. It is highly desirable that students have a course in physics and a four-year college preparatory program in mathematics. Students should attain a depth of understanding of fundamentals and a reasonable competence in dealing with chemical problems. The course will contribute to the development of the students' abilities to think clearly and to express their ideas, orally and in writing, with clarity and logic. Prerequisite Chem. I

SOCIAL STUDIES

Social Studies 7
2730
This program is a geographical survey of the Eastern Hemisphere, beginning with the study of Europe and continuing with Africa and Asia, and the people who live in these areas. It is therefore, a physical, human and cultural analysis. Emphasis is given to reinforcing basic geographic skills and the introduction of new ones with the use of technology. Students learn that interplay of human, cultural, and geographic factors as influences on ways of life is important. This program is based on and incorporates the Reading, Writing, Speaking, and Listening and Math Standards as well as the Social Studies Standards. Various strategies that will increase reading comprehension and promote cross curriculum lessons will be the mainstay of this course.

Social Studies 8
2820
The Eighth Grade Social Studies Course is a standards-based program that examines World History and the rise of early civilizations from Prehistoric Society and the Birth of Civilization to the Exploration of the Americas and Africa. Students will study the earliest biological, cultural and geographical interactions from the Acropolis to Zimbabwe with an emphasis on expansion, innovation, and exploration of the various regions. The focus in this course will be on the historic content with the strong emphasis on the reading, writing, speaking, and listening skills that are essential to all students. Various strategies that will increase reading comprehension and promote cross curriculum lessons will be the mainstay of this course. Teachers will utilize time lines to incorporate important events, people, and ideas from various periods in history including, the Middle Ages, the Renaissance, Reformation, and Exploration and their contribution to Modern Society.

United States History I
2130
At this grade level the prescribed course of study in United States History deals primarily with the economic, political, social, and cultural growth of the United States from 1754 to 1877. This course also includes an examination of the theory of government inherent in the Declaration of Independence, the Constitution, and other historical documents as they relate to an understanding of our American heritage as well as their reflections in present-day America. Students will use current events to relate themes of the past with the present and increase their understanding of the influences of other nations on the United States. They will examine major conflicts, the settlement of western lands and its impact on growth and identity of this country. The Interpretation of Primary Documents, the accessing of prior knowledge, and utilization of recently learned materials will be combined to familiarize students with writing in the style of a certain historical period A strong emphasis will be on the development of reading comprehension skills as well as writing, speaking, and listening skills

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United States History II
2220
Tenth grade Social Studies requires the study of American History from Reconstruction to the Twenty First Century. It focuses on different themes in history from Industrialization to the Present Day. Students will learn the economic, political, social, and cultural changes brought about in various time periods and how they relate to the growth and expansion of this great country. They will analyze the changing of American foreign policy from isolationist to interventionist. Readings, writings, and discussions will be used to examine in full the causes and effect of warfare on the United States with an emphasis on the home front and major battles home and abroad. The impact of minority groups and their changing roles and struggles in society will be explored along with the current events going on in our country and the world. Students will be assessed in a variety of ways both formal and informal through research papers, group discussion, and debate while meeting state standards that cross a variety of curriculums.

Introduction to Psychology
2423
Psychology is an area of study that contributes to an understanding of the student's behavior and the relationship of his behavior to that of his peers. The student is introduced to the biological and social determinants of behavior; the learning process principles of perceptual organization motivation; variations mental health, and other determinants that have a direct and indirect influence upon the student's maturation and commonly described as reasoning or problem-solving skills. Some examples of these skills are the ability to analyze complex situations in terms of psychological concepts, the ability to apply psychological principles to new situations, identifying the assumptions in statements about behavior, detecting psychological fallacies, and making valid inferences from psychological data. A great deal of time is spent on the development and how it will affect the student later in life with home situations, parenting, divorce.

Introduction to Political Science
2433
Political Science concerns itself with the foundation, structures, functions and services of the American federal, state, and local government. It provides perspective for the study of current problems by encouraging students to read newspapers and magazines, monitor television news programs, etc. A number of activities are specifically designed to familiarize the student with nature and function of local government. Community oriented activities are emphasized. The course also includes a unit of study on comparative government. This unit compares the structure and function of the American system with major European powers on all levels of government. The reading, writing, speaking, and listening standards are addressed as well as the Social Studies standards for civics and government.

Social Science Seminar
2440
The seminar will offer opportunities for students to meet, discuss, study and work on a variety of issues. The program will include analysis and attempts to formulate potential resolutions of present and controversial social problems. Based on study needs and interests, the following learning activities will be employed, where appropriate to promote relevancy, surveys, tabulating and interpreting data, using reference tools, integrating the Fine Arts and Humanities, role-playing, hearing and questioning resource people, preparing a policy decision, using case studies, listening to ideas and opinions of other students, conducting an investigation, brainstorming, studying films, working in community projects, advocating a thought out position, mock trials, simulating and gaming, taking field trips, comparing and contrasting points of view utilizing social science books and articles. This course is an elective and is offered to seniors.

Advanced Placement (AP) United States History
2310
AP U.S. History is a junior/senior elective designed to provide students with the analytic skills and factual knowledge necessary to deal critically with the problems and materials in United States History. This is a challenging course that is meant to be the equivalent of a freshman college course and can earn students college credit. It is a rigorous survey of American history from the age of exploration and discovery to the present. Solid reading and writing skills, along with a willingness to devote considerable time to homework and study, are necessary to succeed. Emphasis is placed on critical and evaluative thinking skills, essay writing, interpretation of original documents, and historiography. The prerequisites of this course are US History I and II and teacher recommendation.

Advanced Placement (AP) Economics Course
2410
The AP Economics course is offered as a two-semester course including both macro - economics and micro - economics. The course introduces students to fundamental economic concepts such as scarcity and opportunity costs, supply and demand, absolute and comparative advantage, market structure and oligopolies. In addition, students learn the definition of money and the principals of the banking system in our market economy. They also study the United States in the global economy of today. The course prepares students to take the AP examination for college credit.

Civics/Economics
2312
The Civics and Economics is a standards based program that emphasizes both civics and economics content with the purpose of motivating students to learn about the foundations of government and citizenship, the American economic and legal systems, and how to make a difference through active civic participation. Its friendly writing style and systematic, thorough skills instruction provide students with the tools they need to become responsible, engaged citizens. This course promotes active civic participation, provides solid coverage of basic economic principles, and builds solid social studies skills. Students will also employ indispensable technology resources that enhance the course. As with every social studies course, an emphasis will be placed on reading comprehension as well as the writing, speaking, listening, and mathematics skills as required by state standards. This course is required for graduation.

Law in America
2450
This is an elective course open to all juniors and seniors. It is designed to be a survey of the American legal system covering elements of both civil and criminal law. Special attention is given to such careers as attorney, legal assistant (paralegal), business law enforcement officer. Topics include: introduction to the American legal system, trial procedure, criminal investigation, juvenile law, contracts, property, torts, family law, and wills and estates. Classroom instructions

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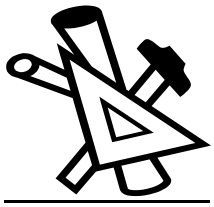

TECHNOLOGY EDUCATION

Technology Exploration 7 7720
Technology Exploration 8 7820

Units of Family and Consumer Science and Technology Education/Industrial Arts related instruction are provided to all students at both grade levels. Classes are scheduled for two periods each week. Family and Consumer Science instruction includes the fundamentals of food preparation and clothes making at both grade levels. However, the eighth grade student is expected to learn techniques of cooking and sewing beyond the fundamentals. The instruction stresses the proper use of kitchen utensils and equipment and the care and use of the sewing machine. It further provides for individual participation through assigned cooking and sewing projects. Technology Education/Industrial Arts instruction addresses the basic skills in industrial materials, drafting, power technology, and visual communications. Students are required to complete projects appropriate to each skill area. Emphasis is placed upon the proper and safe use of tools and machinery. Students will learn how each area is integrated with Science, Mathematics, Reading and Technology Education and its use in everyday problem solving.

Technology Education 9 7149

The five-hour per week course is designed to introduce the student into the world of Technology and engineering. Technology Education at this level is exploratory in mature compared t its companion courses at the seventh and eight grade levels. It deals with a more precise approach to technology where the student will be exposed to one or all of the areas of Drafting, Industrial Materials, Power Technology, and Visual Communications and will integrate these disciplines of technology for problem solving solutions. This exploratory experience will assist the student to develop an understanding of the correlation of Technology, Science, Mathematics, and English.

Drafting 10 7241

Drafting 1 is taught five hours per week for first year drafting students in grade 9, 10, 11, and 12 for the entire year. The drafting course is geared for the student that has an interest in pursuing a career in the fields of engineering or technology. The course will deal with problem solving situations within the areas of architecture, mechanical, electrical, electronics, and computer engineering. This will be accomplished by manual and computer aided drafting (CAD). Areas that will also be explored are structure methods, landscaping, bridge design and building. Methods of freehand drawing, pictorial drawing, sketching, and design situations will be explored in problem solving assignments. The student will use multitasking on the computer, which will include spreadsheets, word processing and power point presentations along with CAD programs. At the end of the course the student will have a Portfolio of his/her work. The student will integrate the areas of Mathematics, Science, Reading and English in the solving and presentation of his/her problem solving assignments.

Industrial Materials 1, 2, 3
7242, 7342, 7442
Industrial Materials courses are offered to all students as a major subject. Each class meets five periods per week. Industrial Materials 2 and 3 have prerequisites.

Materials are the foundation of our human made world. Most of our products are manufactured using solid materials, called industrial materials. They are changed in size and shape to make them useful. This transformation is called material processing technology.

The Industrial Materials courses are a study of science and technology as related to material processing. The courses will involve hands-on activities that will allow for an exciting way to study materials as they exist in nature, their properties, and the processes used to transform them.

Industrial Materials 1
7242
An introductory course, designed to provide experience with common industrial materials. The course will allow the student to identify and safely use a variety of tools and basic machines. Hands-on activities will encourage the student to plan, design, construct, experiment and evaluate. The course will also involve problem solving, career awareness, and the practical application of math and science skills, for the understanding of the science/technology/materials relationship.

Industrial Materials 2
7342 (Prerequisite Industrial Materials 1)
A second level Industrial Materials course developed to provide experience with more complicated processing systems and additional materials. The students will engage in hands-on activities that will allow them to safely use tools and machines and relate the processing technology to mathematics and science.

Industrial Materials 3
7442 (Prerequisite Industrial Materials 1 and 2)
This is an advanced course in Industrial Materials Technology with an emphasis on design and problem solving. Students will apply design skills and advanced concepts of manufacturing. They will select and safely apply tools, materials, and processes necessary to solve complex problems. The students will also apply concepts of manufacturing by analyzing and resigning an enterprise to improve productively, and reduce waste and pollution.

Power Technology 1
7144 (No Prerequisite)
This course meets five periods a week and is open for all students at the high school level. Power Tech I introduced the student how to work safely in the power lab environment, It is an exploration into four basic power areas, Electronics DC circuits, Internal combustion engines, Electrical Wiring and Fluid Power. This course emphasizes safe work habits and “hands on” problem solving.

Power Technology 2
7244 (Prerequisite Power Technology 1)
This course meets five periods and is offered to students in grades 10 through 12. Power Technology 2 is an advanced study of our power systems, Electronics AC/DC circuits, Electrical systems, Internal combustion motors, and Fluid power systems. Emphasis is placed on hands on problem solving and career awareness in the Power Technology fields.

Power Technology 3
7344 (Prerequisites Power Tech 1 & 2)
This course meets five periods a week and is offered to students in grades 11 and 12. This course is an advanced study of four power systems, Electronics AC/DC and digital circuits, Electrical control industrial application, Internal combustion motors, Fluid power systems. Emphasis is placed on hands on problem solving, circuit designing and exploring engineering career fields.

Power Technology 4
7444 (Prerequisites Power Technology 1, 2 and 3)
This course meets five periods a week and is offered to students in 12th grade. It is an independent study of the four power systems. The student may also be offered career mentoring and job shadowing opportunities. The courses are scheduled five periods per week in each grade. The program concerns itself with various energy forms, the matter from which they are derived, and the conversion of these energy forms into useful work. Consistent and experience centered laboratory operations are designed to clarify the function and application of all types of energy devices. Grade 10 deals primarily with basic electricity and basic circuits. It is a course of theory and practice relative to circuitry essentials in all phases of electricity. In 11th and 12th grades the program ties the student's knowledge of electronic circuits to the study of systems, radio, radar, T.V., industrial control, communications, micro-circuitry, etc.

Visual Communications 1
7245 (No Prerequisite)
The course is scheduled five periods per week as a major subject in grades ten, eleven, and twelve. This course is recommended for all students, especially college bound students seeking the opportunity to develop numerous technical skills and concepts that can be applied to develop numerous technical skills and concepts that can be applied to all college career choices. This course is designed to introduce the student to the most current technology available to effectively manipulate various methods of visual communications. The method of instruction includes an introduction to the basics of creative layout and design of various printed publications, desktop publishing, process photography, sublimation printing, offset printing, and screen-printing. The students will also experience "hands-on" printing using a variety of materials including wood, metal, plastic, glass, paper, and textiles. Emphasis is placed on the interactive relationship of Visual Communications Technology to other curriculum areas including Mathematics, Science, English, etc.

Visual Communications 2
7345 (Prerequisite: Visual Communications 1)
This course is scheduled five periods per week as a major subject for senior high students in grades eleven and twelve. This course is designed for the serious student who wants an in-depth, detailed study of all methods of visual communication technology at this level; the student will work independently and in small groups. Each student will enhance their skills in developing the transition of an abstract visual concept into an effective printed publication or object. Emphasis will be placed on the advanced concepts of visual design. This will include proper, design considerations of various printed pieces, color theory, and the study of typography as it related to desk-top publishing's. Advanced methods of process photography and copy preparation will be explored. The students will experience a combination of "hands-on" projects along with detailed theory as it related to various printing methods. There is a constant interactive relationship between Visual Communications Technology and other curriculum areas including Mathematics, Science, English, etc.

Visual Communications Technology 3
7445 (Prerequisite: Visual Communications I & 2)
This course is schedule five periods per week as a major subject in twelfth grade. This is designed to be an advanced course for the student who wants to pursue an independent study into specific areas of Visual Communications Technology Students may select one or more communication topics within offset printing, screen printing, desk-top publishing, or sublimation printing. The course requirements will include the manipulation of all theory and "hands-on" skills learned in previous Visual Communications technology classes. Strong emphasis will be placed on time management, organizational skills, and following verbal and written directions. Each student will prepare a professional Portfolio representative of their level of expertise within visual communications. The content of the Portfolio will reflect the interactive relationship of Visual Communications Technology to other curriculum areas including Mathematics, Science, English, etc.

GRADUATION REQUIREMENT

Graduation from the three senior high schools in the Wilkes-Barre Area School District requires the satisfactory completion of no less than twenty-two units of student credits during the ninth, tenth, eleventh, and twelfth grades, and the completion of a Graduation Project in accordance with published guidelines.

1. **Four units of credit in English are required.**
2. **Three units of credit in Mathematics are required.**
3. **Three units of credit in Science are required.**
4. **Three units of credit in Social Studies are required.**
5. **Two units of credit in Arts or Humanities or both are required.**
6. **.25 units of credit in Health and 1.75 in Physical Education are required.**
7. **Five additional courses selected by the student from among those approved for credit toward graduation by the School District, including approved Vocational Education.**

PROMOTION REQUIREMENT

1. Grade Seven

a. 5.25 credits must be passed in order to be promoted to grade eight.
b. If two majors are failed in grade seven, the student will not be promoted to grade eight.
c. Reading is considered a major subject in grade seven.

2. Grade Eight

a. 10.50 credits are required to be promoted to grade nine.
b. Health is considered a major subject in grade eight.
c. If two majors are failed in grade eight, the student will not be promoted to grade nine.
d. A minimum of one out of two majors in each discipline must be passed in grade seven or grade eight before a student is promoted to grade nine.
e. A minimum of one out of two minors (music, art, vocational exploration) in grades seven or grade eight must be passed before a student is promoted to grade nine.
f. 1.00 credits in physical education and .75 credits in health are required for promotion to grade nine.

3. Grade Nine

a. 6.75 credits will be carried, and 5.25 credits must be passed to be promoted to grade ten.
b. Four major subjects must be passed.

4. Grade Ten

a. A minimum of 6.75 to a maximum of 8.00 credits will be carried, and 5.50 credits must be passed in order to be promoted to grade eleven.
b. Four major subjects must be passed in order to be promoted to grade eleven.

5. Grade Eleven

a. A minimum of 6.75 credits to a maximum of 8.00 credits will be carried, and 5.50 credits must be passed in order to be promoted to grade twelve.
b. Four major subjects must be passed in order to be promoted to grade twelve.
c. 16.25 credits must be earned in order to be promoted to grade twelve.

6. Grade Twelve

a. A minimum of 6.75 credits to a maximum of 8.00 credits will be carried, and 5.50 credits must be passed in order to graduate.

b. Graduation from high school in the Wilkes-Barre Area School District requires satisfactory completion of no less than twenty-two units of study during grades nine through twelve.

GRADUATION REQUIREMENT

Graduation from the three senior high schools in the Wilkes-Barre Area School District requires the satisfactory completion of no less than twenty-two units of student credits during the ninth, tenth, eleventh, and twelfth grades, and the completion of a Graduation Project in accordance with published guidelines.

1. Four units of credit in English are required.
2. Three units of credit in Mathematics are required.
3. Three units of credit in Science are required.
4. Three units of credit in Social Studies are required.
5. Two units of credit in Arts or Humanities or both are required.
6. .25 units of credit in Health and 1.75 in Physical Education are required.
7. Five additional courses selected by the student from among those approved for credit toward graduation by the School District, including approved Vocational Education.