

Message from Counselor

The proper selection of subject-matter courses is one of the most important tasks that you will undertake. Consider with care the many courses listed in this guide. Your counselor will do everything possible to help you select the most appropriate program of studies for the next school year.

This guide has been prepared for students and their parents to assist them in selecting courses that will best meet their educational and career goals. You are encouraged to consult with your counselor for long and short term program planning. The review and revision of the planned programs should be an ongoing process throughout the high school years.

In consulting with your parents, teachers and staff you should consider the following criteria in making your course selections:

- *Future career goals*
- *Aptitude, interests, and abilities*
- *Teacher recommendation*
- *Meeting graduation credit and course requirements, both state and local guidelines*
- *Meeting graduation project requirements*
- *Achieve at the Proficient or Advanced Level on all PSSA assessments*

Since education is a lifelong process, the importance of thoughtful ongoing planning cannot be over emphasized. If you have any questions or concerns about this selection process, please feel free to contact your counselor at your earliest convenience.

Graduation Project

*As a result of the changes in the State of Pennsylvania requirements (Chapter 4) in order to graduate from high school “a student shall complete a project in one or more areas of concentrated study under the guidance and direction of the high school faculty”. This project must contain a written, research, oral, technological and visual component. A detailed graduation project information pamphlet is available. In order to be considered a senior, you **must** complete your graduation project by the end of your junior year.*

Graduation Requirements

The following graduation requirements must be met in order to obtain a diploma from Bristol Jr. Sr. High School:

1. *Achieve minimum credit requirements each year. (See Below)*
2. *Successfully complete Graduation Project by the end of their junior year.*
3. *Score proficient or advanced on all PSSA assessments*

Graduation Requirements for the Class of 2011	Graduation Requirements for the Class of 2012, 2013, 2014																																												
<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; padding: 5px;"><u>Course</u></th> <th style="text-align: right; padding: 5px;"><u>Credits</u></th> </tr> </thead> <tbody> <tr><td style="padding: 5px;">English</td><td style="text-align: right; padding: 5px;">4</td></tr> <tr><td style="padding: 5px;">Math</td><td style="text-align: right; padding: 5px;">3</td></tr> <tr><td style="padding: 5px;">Social Studies</td><td style="text-align: right; padding: 5px;">3</td></tr> <tr><td style="padding: 5px;">Science</td><td style="text-align: right; padding: 5px;">3</td></tr> <tr><td style="padding: 5px;">Arts/Humanities</td><td style="text-align: right; padding: 5px;">2</td></tr> <tr><td style="padding: 5px;">Health</td><td style="text-align: right; padding: 5px;">.5</td></tr> <tr><td style="padding: 5px;">Physical Education</td><td style="text-align: right; padding: 5px;">2</td></tr> <tr><td style="padding: 5px;">Electives</td><td style="text-align: right; padding: 5px;">6</td></tr> <tr><td style="padding: 5px;">Graduation Project</td><td style="text-align: right; padding: 5px;">.5</td></tr> <tr> <td style="padding: 10px;">Total Credits =</td> <td style="text-align: right; padding: 10px;">24.0</td> </tr> </tbody> </table>	<u>Course</u>	<u>Credits</u>	English	4	Math	3	Social Studies	3	Science	3	Arts/Humanities	2	Health	.5	Physical Education	2	Electives	6	Graduation Project	.5	Total Credits =	24.0	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; padding: 5px;"><u>Course</u></th> <th style="text-align: right; padding: 5px;"><u>Credits</u></th> </tr> </thead> <tbody> <tr><td style="padding: 5px;">English</td><td style="text-align: right; padding: 5px;">4</td></tr> <tr><td style="padding: 5px;">Math</td><td style="text-align: right; padding: 5px;">4</td></tr> <tr><td style="padding: 5px;">Social Studies</td><td style="text-align: right; padding: 5px;">3</td></tr> <tr><td style="padding: 5px;">Science</td><td style="text-align: right; padding: 5px;">3</td></tr> <tr><td style="padding: 5px;">Arts/Humanities</td><td style="text-align: right; padding: 5px;">2</td></tr> <tr><td style="padding: 5px;">Health</td><td style="text-align: right; padding: 5px;">.5</td></tr> <tr><td style="padding: 5px;">Physical Education</td><td style="text-align: right; padding: 5px;">2</td></tr> <tr><td style="padding: 5px;">Electives</td><td style="text-align: right; padding: 5px;">5</td></tr> <tr><td style="padding: 5px;">Graduation Project</td><td style="text-align: right; padding: 5px;">.5</td></tr> <tr> <td style="padding: 10px;">Total Credits =</td> <td style="text-align: right; padding: 10px;">24.0</td> </tr> </tbody> </table>	<u>Course</u>	<u>Credits</u>	English	4	Math	4	Social Studies	3	Science	3	Arts/Humanities	2	Health	.5	Physical Education	2	Electives	5	Graduation Project	.5	Total Credits =	24.0
<u>Course</u>	<u>Credits</u>																																												
English	4																																												
Math	3																																												
Social Studies	3																																												
Science	3																																												
Arts/Humanities	2																																												
Health	.5																																												
Physical Education	2																																												
Electives	6																																												
Graduation Project	.5																																												
Total Credits =	24.0																																												
<u>Course</u>	<u>Credits</u>																																												
English	4																																												
Math	4																																												
Social Studies	3																																												
Science	3																																												
Arts/Humanities	2																																												
Health	.5																																												
Physical Education	2																																												
Electives	5																																												
Graduation Project	.5																																												
Total Credits =	24.0																																												
<p>** Minimum credit requirement for promotion to 10th grade = 5.50</p> <p>** Minimum credit requirement for promotion to 11th grade = 12.00</p> <p>** Minimum credit requirement for promotion to 12th grade = 18.00</p> <p>** Minimum credit requirement for graduation = 24.00</p>	<p>** Minimum credit requirement for promotion to 10th grade = 5.50</p> <p>** Minimum credit requirement for promotion to 11th grade = 12.00</p> <p>** Minimum credit requirement for promotion to 12th grade = 18.00</p> <p>** Minimum credit requirement for graduation = 24.00</p>																																												

WEIGHTED COURSE/QUALITY POINT POLICY

Rank-in-Class is defined as the numerical estimate of a student's scholastic achievement in relation to that of his classmates. All students and all subjects are included in the ranking procedure. Grades in all courses that are applicable for graduation credits (9 through 12) will be counted when computing quality point average, except Physical Education.

Class rank is a procedure by which students are placed in order according to their quality point average (QPA). A student's QPA is computed by adding the numerical grade for the courses and the total is divided by the number of credits attempted to yield a QPA.

RATIONALE: *Quality points are computed to provide a measure of the relationship between the level of difficulty of courses selected by a student and his/her level of achievement.*

B Level Courses (basic curriculum)

Courses in this category offer the basic curriculum requirements as set forth by PDE for a discipline at a particular grade level.

Formula: $1.0 \times \text{student grade} = \text{quality points}$

A Level Course (college prep)

Courses in this category offer a more intense, college preparation than those in the B Level courses.

*English 9 - College Prep
English 10 - College Prep
English 11 - College Prep
English 12 - College Prep
Biology I - College Prep
Chemistry I – College Prep
Advanced Biology II
Advanced Chemistry II
Physics I - College Prep
3rd year Foreign Language
4th year Foreign Language
American Cultures- College Prep
World Cultures - College Prep
Accounting II
Geometry
Algebra II
Trig/Pre-Calculus
Calculus*

Formula: $1.1 \times \text{student grade} = \text{quality points}$

Honors Level Courses

Courses in this category offer a more intense and accelerated curriculum than those in the college prep category and have more rigorous entrance requirements.

*Honors English 9 / Honors Social Studies 9 - (American Cultures/English)
Interdisciplinary 10 - (American Cultures/English)
Interdisciplinary 11 - (World Cultures/English)*

Formula: 1.135 x student grade = quality points

AP Level Courses (college level)

Courses in this category meet the standards established by the College Board and are the equivalent of a full year college course. This category will include college level courses with prior approval by the building principal.

*AP European History
AP Calculus*

Formula: 1.175 x student grade = quality points

For those “weighted” courses, the numerical grade will be multiplied by the level factor listed in each category to compensate for the greater challenge and competition that it involves. It is hoped that this aspect of the procedures will encourage more high ability students to take on the challenge of advanced courses rather than settling for a less rigorous course where a high grade is certain.

Courses Online

- *Can't find a course that meets your needs?*
- *Are you interested in a subject that's a little off the beaten path?*
- *Are you an independent learner who would like to work on an academic course, yet have some control over your schedule?*

For students who are interested in pursuing Advanced Placement courses and/or electives in areas of study not offered at the High School, the district now offers a limited number of seats in a wide variety of AP and elective courses online. Online learning is not for everyone, but if you can work independently, an online course may be right for you. If this is an option that you would like to investigate, please contact Mr. Brown in Room 219 for further information.

Online Course Selection Guide

<p>Pre-AP Courses</p> <ul style="list-style-type: none"> • Introduction to Biology • Introduction to Calculus AB* • Introduction to Chemistry* • Introduction to Computer Science* • Introduction to Economics* • Introduction to English Language and Composition • Introduction to English Literature and Composition • Introduction to Environmental Science • Introduction to Physics B • Introduction to Statistics* • Introduction to U.S. History • Preparing for College Essays <p>AP Courses</p> <ul style="list-style-type: none"> • AP Biology • AP Calculus AB* • AP Calculus BC* • AP Chemistry* • AP Computer Science A* • AP Economics • AP English Language and Composition • AP English Literature and Composition • AP Environmental Science* • AP French Language • AP Government & Politics: U.S.* • AP Physics B* • AP Physics C • AP Psychology • AP Spanish Language/Spanish V • AP Statistics* • AP U.S. History* <p>International Baccalaureate</p> <ul style="list-style-type: none"> • IB Economics • IB Information Technology in a Global Society <p>Arts</p> <ul style="list-style-type: none"> • American Popular Music • Art and the Internet: Creating a Virtual Museum Exhibit • Art History: Renaissance to Present* • Caribbean Art History • Creating Art History • History and Pop Music • History of Photography* • Music Composition and Arranging * • Music Listening and Critique* <p>Business</p> <ul style="list-style-type: none"> • Business and Personal Law* • Entrepreneurship: Starting Your Own Business* • Entrepreneurs: Business Owners of the 3rd Millennium • International Business: An Exploration* • Introduction to Statistics* • Investing in the Stock Market* • Learning to Invest in the Stock Market • Marketing and the Internet* • Personal Finance* • Statistics and Business Quality Management <p>Foreign Language</p> <ul style="list-style-type: none"> • AP French Language • AP Spanish Language/Spanish V • Basic Mandarin: Chinese Language and Culture* • Latin 1 • Spanish Culture and 20th Century • Hispanic • Literature • Writing in Spanish* 	<p>Language Arts</p> <ul style="list-style-type: none"> • 101 Ways to Write a Short Story* • Academic Writing* • AP English Language and Composition • AP English Literature and Composition • Around the World in 80 Days* • Basic Essay Writing • Contemporary Irish Literature* • Creative Writing for People Who Mean It* • Cultural Identity Through Literature • Folklore and Literature of Myth, Magic, and Ritual* • Ghoulies, Ghosties, and Long-Legged Beesties* • Hearts of Darkness: Meeting Ourselves in Literature • Heroes • Horror, Mystery and Science Fiction Literature* • Introduction to English Language and Composition • Introduction to English Literature and Composition • Literacy Skills for the 21st Century • Mythology: Stories from Around the World* • Poetry Writing* • Poetry: Contemporary American Poets* • Preparing for College Essays • Reading and Writing the Science Fiction Short Story • Screenwriting Fundamentals* • To Kill a Mockingbird • Twentieth Century Women Authors • Young Adult Literature <p>Life Skills/Health</p> <ul style="list-style-type: none"> • Career Awareness for the New Millennium* • Employability Skills* • Kindergarten Apprentice Teacher • Parenting in the Twenty-First Century • Perspectives in Health • Preparing for College Admissions and Financial Aid* <p>Math</p> <ul style="list-style-type: none"> • Algebra 2 • AP Calculus AB* • AP Calculus BC* • AP Statistics* • Calculus for Business • Integrated Algebra and Geometry • Introduction to Calculus AB* • Introduction to Statistics* • Math You Can Use In College* • Mathematical Reasoning and Logic • Number Theory: Patterns, Puzzles and Cryptography* 	<ul style="list-style-type: none"> • Statistics and Business Quality Management* <p>Science</p> <ul style="list-style-type: none"> • Anatomy & Physiology: A Study in Stability • Animal Behavior and Zoology • AP Biology • AP Chemistry* • AP Environmental Science* • AP Physics B* • AP Physics C • Astronomy: Stars and the Cosmos • Bioethics Symposium* • Biotechnology • Chemistry II: Chemicals of Civilization • DNA Technology • Environmental Chemistry • Environmental Science-The World Around Us* • Epidemics: Ecology or Evolution • Genes and Disease* • Integrated Mechanical • Physics with Logical Reasoning • Introduction to Astronomy • Introduction to Biology • Introduction to Chemistry* • Introduction to Environmental Science • Introduction to Physics B • Introduction to the Human Body • Meteorology: A Study of Atmospheric Interactions • Nuclear Physics: Science, Technology & Society • Oceanography: A Virtual Semester at Sea • Physics for Inquiring Minds • Preveterinary Medicine <p>Social Studies</p> <ul style="list-style-type: none"> • American Foreign Policy • American Multiculturalism • AP Economics • AP Government & Politics: U.S.* • AP Psychology • AP U.S. History* • Constitutional Law • Criminology • Current Issues in American Law and Justice • Democracy in America? • Digital Geography – More than a Jeopardy Category! • Eastern and Western Thought* • Film and Literature: The European Experience • Foundations of a Nation: Early American History • Gods of CNN: The Power of Modern Media • IB Economics • IB Information Technology in a Global Society • Introduction to Economics* • Introduction to Sociology* • Introduction to U.S. History 	<ul style="list-style-type: none"> • Lewis and Clark's Expedition: A Interactive Journey • Peacemaking • Pearl Harbor to the Atomic Bomb • Practical Law: What You Need to Know About the Law • Psychology – A Introduction* • Service-Learning* • Sports and American Society* • The Glory of Ancient Rome • The Golden Age of Classical Greece • The Holocaust* • The Vietnam War* • World Area Studies: Ancient and Modern Civilizations • World Conflict, a United Nations Introduction* • World Religions <p>Technology/Tech Ed.</p> <ul style="list-style-type: none"> • Animation and Effects: Flash MX Basics* • AP Computer Science A* • CAD • Desktop Publishing: In an Information Age* • Digital Geography - More than a Jeopardy Category! • Engineering Principles • IB Information Technology in a Global Society • Introduction to Computer Science* • Introduction to Programming in Visual Basic* • Technology and Multimedia* Visual Basic* • Web Design and Internet Research* • Web Design : Artistry and Functionality* <p>* Multiple sections offered. • Appropriate for both High School and Gifted and Talented Middle School Students. 1 AP is a registered trademark of the College Board</p>
--	--	--	---

RECOMMENDED SEQUENCE

Below are course sequences that are a guide for students. There are many options for students as they progress through their high school year.

Department	Grade 9	Grade 10	Grade 11	Grade 12
English	<i>Honors Eng. 9H</i>	<i>Interdisciplinary Studies</i>	<i>Interdisciplinary Studies</i>	<i>Honors Eng. 12A</i>
	<i>Honors Eng. 9A</i>	<i>Honors Eng. 10A</i>	<i>Honors Eng. 11A</i>	<i>Honors Eng. 12A</i>
	<i>English 9B</i>	<i>English 10B</i>	<i>English 11B</i>	<i>English 12B</i>
Social Studies	<i>American Cult. 9H</i>	<i>Interdisciplinary Studies</i>	<i>Interdisciplinary Studies</i>	<i>Psych/Econ</i>
	<i>American Cult. 9A</i>	<i>Am. Cult. II 10 A</i>	<i>World Cult. 11A</i>	<i>Minority Studies</i>
	<i>American Cult. 9B</i>	<i>Am. Cult. II 10B</i>	<i>World Cult. 11B</i>	<i>European History</i> <i>AP European Hist.</i>
Science	<i>Phys. Science I</i>	<i>Biology I</i>	<i>Chemistry I</i>	<i>Chem. II, or Bio.II</i> <i>Or Physics</i>
	<i>App Phys. Science</i>	<i>App. Biology</i>	<i>App. Chemistry</i>	<i>Conceptual Physics</i>
			<i>App. Science</i>	<i>App Science</i>
Math	<i>Algebra I</i>	<i>Geometry</i>	<i>Algebra II</i>	<i>Trig/Precalc. or Calc. or AP Calc</i>
	<i>Algebra I Pt. 1</i>	<i>Algebra I Pt. II</i>	<i>Geometry</i>	<i>Algebra II or PSSA Remediation</i>
	<i>Geometry</i>	<i>Algebra II</i>	<i>Trig/Precalc.</i>	<i>AP Calc. or Appl. of Math or PSSA Remediation</i>
PE/Health	<i>PE</i>	<i>PE/Health</i>	<i>PE</i>	<i>PE</i>
Languages	<i>Spanish I</i>	<i>Spanish II</i>	<i>Spanish III</i>	<i>Spanish IV</i>
	<i>Italian I</i>	<i>Italian II</i>	<i>Italian III</i>	<i>Italian IV</i>
Additional Electives	<i>Art, Business Ed., Consumer Science, English, Industrial Art, Music, Social Studies.</i>	<i>Art, Business Ed., Consumer Science, English, Industrial Art, Music, Social Studies.</i>	<i>Art, Business Ed., Consumer Science, English, Industrial Art, Music, Social Studies.</i>	<i>Art, Business Ed., Consumer Science, English, Industrial Art, Music, Social Studies.</i>

ART

- **COURSE:** Art Elective
GRADE LEVEL: 9-12
COURSE LENGTH: Semester
PREREQUISITES: None
WEIGHT: 1.0
PIMS: Art Elective - 1402

COURSE DESCRIPTION: The art elective program is an individualized program that enhances students in the areas of two and three-dimensional design. This program introduces the basic principles of drawing and design, increases knowledge in color theory, mixing of colors, painting techniques, increases skills in shading using pen and ink, allows students to experience the use of pastel. This program also introduces students to the concept of printmaking and integrates art history throughout the program as examples and contributions to history of art and their influences in the classroom experience.

- **COURSE:** Art Major
GRADE LEVEL: 10-12
COURSE LENGTH: Year
PREREQUISITES: Teacher recommendation and/or art elective
WEIGHT: 1.0
PIMS: Art Major - 1402

COURSE DESCRIPTION: The art major program is designed to advance a student's skill and knowledge in 2 and 3 dimensional design, drawing, mixing, blending and use of color using different mediums of paint, increasing knowledge in pasteling, introduce students to a more advance printmaking technique, encouraging students to show depth, space and form in nature, introduce students to the various techniques of pottery and teach students the principles of advertising /graphic design by the use of computer technology. This program also helps students put together a portfolio for future educational needs and to increase the awareness of art history and its contributions to today's social and economic structure.

- **COURSE:** Advanced Art Major
GRADE LEVEL: 11-12
COURSE LENGTH: Year
PREREQUISITES: Teacher recommendation
WEIGHT: 1.0
PIMS: Advanced Art Major - 1402

COURSE DESCRIPTION: This course is designed to enhance the critical thinking process and increase skills/knowledge through 2 and 3 dimensional design. This course will also increase skills in the area of technology through desktop publishing techniques that can be utilized for the graduation project. The advanced art course is individualized to increase student's skill in specific desired areas of specialty/interests, and to increase problem-solving skills in these designated areas. Areas such as painting on canvas, 3-D design with wood and cardboard, portrait and figure drawing, industrial design of product, pottery and use of wheel, advance techniques in pasteling, drawing, watercolor use and perspective concepts, commercial logo design and desk top publishing techniques, elements of good composition in drawing and painting, a 3-D sculpture will be offered. This program also helps students to put together a portfolio for future educational needs/career goals and to increase an awareness in the history of the art periods and their influence on today's social/economical structures.

- COURSE:** Desktop Publishing I
GRADE: 10-12
COURSE LENGTH: One semester
PREREQUISITES: Computer Applications I & II
WEIGHT: 1.0
PIMS: Desktop Publishing - 11152

COURSE DESCRIPTION: This is an introductory course into desktop publication. In this course students will begin to understand and demonstrate PageMaker and PhotoShop programs. They will be trained on the scanner and learn how to manipulate pictures/line drawings. They will be taught the principles of design with layout standards. Once students have successfully accomplished these skills, they will then apply their knowledge by creating numerous projects from various units that will be taught for the rest of the semester. Students will be taught units on logo and advertising design, layout for reports, resume writing and design, brochure design, certificate and announcement design and campaign presentation for classroom reports or company use.

- COURSE:** Desktop Publishing II
GRADE: 10-12
COURSE LENGTH: One Semester
PREREQUISITES: Desktop I
WEIGHT: 1.0
PIMS: Desktop Publishing - 11152

COURSE DESCRIPTION: Desktop Publishing II is a continuation of Desktop I. Students will review the PageMaker functions with an emphasis on the 6.5 upgrade. This course will also teach intermediate and advanced levels of the PhotoShop Editing Program. Areas of instruction will involve techniques such as: variety of selection, use of color and drawing tools, creating multiple composite images, the use of masking tools and the use of various filters with their special effects, as well as editing techniques in video presentations. Students will incorporate this skill knowledge into various projects for future use in slide and animation presentations.



BUSINESS EDUCATION

- ***COURSE:*** Computer Applications I
GRADE LEVEL: 9-12
COURSE LENGTH: Semester
PREREQUISITES: None
WEIGHT: 1.0
PIMS: Computer Science I - 10999

COURSE DESCRIPTION: This course will teach students introductory level skills in using Star Office, specifically Text Doc, Spreadsheet, and Presentation. Students will also experience integrating these software applications.

- ***COURSE:*** Computer Applications II
GRADE LEVEL: 9-12
COURSE LENGTH: Semester
PREREQUISITES: Computer Applications I, passing with a 77% or better
WEIGHT: 1.0
PIMS: Computer Science II - 109992

COURSE DESCRIPTION: This course will teach students intermediate and advanced skills in using Star Office, specifically Text Doc, Spreadsheet, and Presentation. Students will also experience integrating these software applications and introduction to Web page design. This course will give students skills that are necessary to pass the Microsoft Office User Specialist Expert Tests.

- ***COURSE:*** Business Mathematics
GRADE LEVEL: 11-12
COURSE LENGTH: Year
PREREQUISITES: None
WEIGHT: 1.0
PIMS: Banking & Finance - 12101

COURSE DESCRIPTION: Business Mathematics reviews and strengthens the fundamental processes of mathematics to develop competence. The basic concepts include addition, subtraction, multiplication, division, fractions, decimals, and percents. The use of the calculator is included.

After reviewing the fundamental processes, the pupil uses his knowledge and skills to solve problems in personal and business situations. These situations include banking transactions, payroll procedures, personal and property insurance, investments, buying and selling merchandise, and collecting, reporting and interpreting business data.

****Business Mathematics is an elective and is not intended to replace any course in a student's normal math sequence.****

- **COURSE:** Accounting I
GRADE LEVEL: 10-12
COURSE LENGTH: Year
PREREQUISITES: None
WEIGHT: 1.0
PIMS: Accounting I - 12104

COURSE DESCRIPTION: An introduction to the basic principles of Accounting. The topics of debit and credit, special journals, trial balance, adjusting and closing entries, and financial papers are studied. Some hands-on operation in using the computer for automated Accounting work will also be offered.

- **COURSE:** Accounting II
GRADE LEVEL: 11-12
COURSE LENGTH: Year
PREREQUISITES: Accounting I
WEIGHT: 1.1
PIMS: Accounting II - 121042

COURSE DESCRIPTION: This course deals with corporate accounting and the many systems used. It includes special journals, along with depreciation, disposal of fixed assets and payroll accounting. Additional accounting control systems will also be introduced.

- **COURSE:** Business Law
GRADE LEVEL: 9-12
COURSE LENGTH: Year
PREREQUISITES: None
WEIGHT: 1.0
PIMS: Business Law - 12054

COURSE DESCRIPTION: This is a full year major course offered as an elective to any student. There is no prerequisite for entry to the course. Basic concepts of the course include: understanding the law, enforcing the law, making contracts, applying law to employment, protecting against loss, understanding business organization, and understanding income take.

- **COURSE:** Internet Concepts
GRADE LEVEL: 10-12
COURS LENGTH: Semester
PREREQUISITES: Computer Applications I
WEIGHT: 1.0
PIMS: Web Page Design - 10201

COURSE DESCRIPTION: Students will experience how the Internet is used for personal and business-related activities. They will learn basic internet concepts and language. Using this knowledge, they will work with hands-on-activities that will enable them to use a browser, search engines, and e-mail. Students will create and design Web pages using HTML programming and Web Page authoring software.

- **COURSE:** *Web Page Design*
GRADE LEVEL: *10-12*
COURS LENGTH: *Semester*
PREREQUISITES: *Internet Concepts with a minimum 80% grade I*
WEIGHT: *1.0*
PIMS: *Web Page Design - 10201*

COURSE DESCRIPTION: *The course uses DreamWeaver, Flash, Fireworks to create integrated web sites. Students will learn advanced techniques for creating sites and utilize those skills to create web pages suitable for publishing to the web. Activities will include the creation of web pages highlighting school clubs and activities. Students will learn how the design and ease of use of a web site is as important as the content contained within it.*

ENGLISH

- **COURSE:** Honors English 9
GRADE LEVEL: 9 Honors
COURSE LENGTH: Year
PREREQUISITES: Teacher recommendation
WEIGHT: 1.135
PIMS: English/Language Arts I - 01001

COURSE DESCRIPTION: Honors English 9 is a course designed to examine American Literature in terms of self and society. It traces a number of universal themes as they develop through various genres and selected texts. In addition to mastery of literacy content, the course stresses development of critical thinking skills through written and oral evaluation. It will also develop student skills in expository and creative writing, test-taking strategies, and oral presentation.

- **COURSE:** English 9
GRADE LEVEL: 9A
COURSE LENGTH: Year
PREREQUISITES: Teacher recommendation
WEIGHT: 1.1
PIMS: English/Language Arts I - 01001

COURSE DESCRIPTION: This year-long, college preparatory course is designed to emphasize reading skills, the writing process, and American Literature. Persuasive essays, narratives, descriptive writings and PSSA practice are all mainstays of the program. All students will be required to write at least one research paper. Higher level thinking skills are taught and practiced. Vocabulary and grammar are covered throughout the writings, readings, and units of study.

- **COURSE:** English 9
GRADE LEVEL: 9B
COURSE LENGTH: Year
PREREQUISITES: None
WEIGHT: 1.0
PIMS: English/Language Arts I – 01001

COURSE DESCRIPTION: This year-long course is designed to emphasize reading skills, the writing process, and American literature. A variety of literary genres are studied including the novel, short story, play and poetry. Writing skills are practiced through regular composition assignments, essays, as well as PSSA practice. Higher level thinking skills are taught and practiced. Vocabulary and grammar are major areas of study.

- **COURSE:** *Interdisciplinary Studies 10*
GRADE LEVEL: *10 Honors*
COURSE LENGTH: *Year*
PREREQUISITES: *Teacher Recommendation*
WEIGHT: *1.135*
PIMS: *English/Language Arts II - 01002*

COURSE DESCRIPTION: *Interdisciplinary English/American Culture II is a tenth grade honors level course designed to teach American literature from the late 19th century to the present. The course is developed chronologically with a focus on the development of both the history and the literature of the periods. In addition, it traces a number of universal themes as they develop throughout the historical periods studied. The course stresses mastery of content, the development of critical thinking skills, analysis, evaluation and synthesis. It helps students develop skill in expository and creative writing, research. PSSA practice, oral presentation, grammar, and vocabulary skills.*

- **COURSE:** *English 10*
GRADE LEVEL: *10A*
COURSE LENGTH: *Year*
PREREQUISITES: *English 9 or teacher recommendation*
WEIGHT: *1.1*
PIMS: *English/Language Arts II - 01002*

COURSE DESCRIPTION: *This year-long course is designed to cover American literature from the late 19th century to the present. Reading and writing is an integral, constant part of the program. PSSA and PSAT practice and strategies are taught. Special emphasis is given to research papers and evaluative essays. Higher level thinking skills are taught and practiced. Vocabulary and grammar are covered through the writings, readings, and units of study.*

- **COURSE:** *English 10*
GRADE LEVEL: *10B*
COURSE LENGTH: *Year*
PREREQUISITES: *English 9 or Teacher recommendation*
WEIGHT: *1.0*
PIMS: *English/Language Arts II - 01002*

COURSE DESCRIPTION: *This year-long course is designed to cover American literature from the late 19th century to the present. Reading, writing, research skills, including PSSA strategies, are reinforced and practiced through regular composition assignments. Higher level thinking skills are taught and practiced. Vocabulary and grammar are major areas of study*

- **COURSE:** *Interdisciplinary Studies 11*
GRADE LEVEL: *11 Honors*
COURSE LENGTH: *Year*
PREREQUISITES: *American Cultures I, II, Teacher recommendation*
WEIGHT: *1.135*
PIMS: *English/Language Arts III - 01003*

COURSE DESCRIPTION: *Interdisciplinary English/World Cultures is an eleventh grade honors level course designed to develop an understanding of the differences and similarities among various cultures. Literature studies focus on writers from India, China, Japan, Africa, and the Middle East. In addition to mastery of content, the course stresses development as a thinker. Vocabulary is assigned on a regular basis. Other major units include grammar, usage, sentence structure, sentence editing, mechanics, and spelling. Preparation for the PSSA (Pennsylvania System of School Assessment), Scholastic Aptitude Test (SAT) and the PSAT are integrated into this program of academic studies for the year.*

- COURSE:** English 11
GRADE LEVEL: 11A
COURSE LENGTH: Year
PREREQUISITES: Completion of English 9, 10 or teacher recommendation
WEIGHT: 1.1
PIMS: English/Language Arts III - 01003

COURSE DESCRIPTION: This program of studies is designed for the highly motivated college preparatory student who is able to read literature critically and who is proficient in expository writing. Literature studies focus on a survey of world literature with representative readings from non Western cultures. Required readings in class and out of class include novels, plays, short stories, poems, and essays. A literary research paper with documentation is required. Students also write personal essays, expository essays, literary analyses and creative pieces. Vocabulary is assigned on a regular basis. Other major units include grammar usage, sentence structure, mechanics and spelling. Preparations for the PSSA (Pennsylvania System of School Assessment), Scholastic Aptitude Test (SAT), and the PSAT are integrated into this program of academic studies for the year.

- COURSE:** English 11
GRADE LEVEL: 11B
COURSE LENGTH: Year
PREREQUISITES: Completion of English 9, 10 or teacher recommendation
WEIGHT: 1.0
PIMS: English/Language Arts III - 01003

COURSE DESCRIPTION: This program of studies emphasizes the key elements of the college preparatory course. Literature studies focus on significant works of world literature and representative readings from non-Western cultures. Required readings in class and out of class include novels, plays, short stories, poems, and essays. Students write a research paper with documentation, personal essays, expository essays and creative pieces. Preparations for the PSSA (Pennsylvania System of School Assessment), Scholastic Aptitude Test (SAT), and the PSAT are integrated into this program of academic studies for the year.

- COURSE:** English 12
GRADE LEVEL: 12 A
COURSE LENGTH: Year
PREREQUISITES: English 9, 10, 11 or Teacher Recommendation
WEIGHT: 1.1
PIMS: English/Language Arts IV - 01004

COURSE DESCRIPTION: The year-long course is designed for the highly motivated, college bound student. Extensive reading assignments focus on British and European literature of varying themes. An emphasis is also placed on the college application and admittance process, scholarship/application essay writing, and creation of a working resume. Grammar skills, vocabulary, and public speaking are also integral components of the course. Composition requirements include critical and persuasive essays, literary interpretations, and research paper(s)

- COURSE:** English 12
GRADE LEVEL: 12B
COURSE LENGTH: Year
PREREQUISITES: English 9, 10, 11 or Teacher Recommendation
WEIGHT: 1.0
PIMS: English/Language Arts IV - 01004

COURSE DESCRIPTION: The year-long course is designed to provide mastery in English skills: reading, analysis of the written word, and speaking. Reading assignments focus on British and European literature of varying themes. An emphasis is also placed on creating a working plan for life after high school. Students are given information regarding secondary educational options such as technical and trade schools, two year programs, and four year college/university programs. Application essay writing and creation of a working resume are requirements. Grammar skills, vocabulary, and public speaking are also integral components of the course. Composition requirements include critical and persuasive essays, literature interpretations, journal and reflection writing, and research paper(s).

- COURSE:** Short Story/Creative Writing Elective
GRADE LEVEL: 11-12
COURSE LENGTH: Students may elect one or two semesters
PREREQUISITES: None
WEIGHT: 1.0
PIMS: Literature of a Genre - 01061

COURSE DESCRIPTION: The semester -length short story elective is designed to introduce students to the short story genre. Students will read, analyze, and write short stories. This course will also provide students with the knowledge of the structural elements of a short story and with the knowledge of relevant literary terms and devices. At the end of the course students are expected to be able to:

Define what a short story is.
 Discuss the origins and types of short stories.
 Recognize, define, analyze, and discuss the elements of a short story.
 Apply their knowledge in guided and independent reading and writing.
 Synthesize the elements of the short story well enough to create their own.

- COURSE:** PSSA Remediation: Reading
GRADE LEVEL: 9-12
COURSE LENGTH: Year
PREREQUISITES: None
WEIGHT: 1.0
PIMS: English Test Preparation - 01203

COURSE DESCRIPTION: Courses will be available for students who need to improve critical reading and math skills in preparation for the PSSA. These courses will be assigned to students based on the results of standardized testing.

- COURSE:** Contemporary Literature Elective
GRADE LEVEL: 11-12
COURSE LENGTH: One semester
PREREQUISITES: None
WEIGHT: 1.0
PIMS: Literature of a Period - 01062

COURSE DESCRIPTION: This is a semester length elective which gives students the opportunity to read and discuss current and bestselling books. The literature selected will cover a variety of genres and themes with the intention of moving students beyond traditional high school readings. Students will read, discuss, and complete assignments for the purpose of reading

enjoyment and expanding their literary background. All students should feel comfortable expressing their views in front of the class. Due to the modern reading material, interested students should be motivated, mature, and prepared to read and expound upon more adult topics.

- **COURSE:** SAT Preparation & Practice
GRADE LEVEL: 10-11
COURSE LENGTH: One semester
PREREQUISITES: None
WEIGHT: 1.0
PIMS: English-Test Practice - 01203

COURSE DESCRIPTION: This semester long course teaches students strategies designed to make them more efficient and effective SAT test takers. Students will also become familiar with the reading, math, and writing content covered on this challenging test.

- **COURSE:** Academic Literacy
GRADE LEVEL: 9
COURSE LENGTH: Year
PREREQUISITES: None
WEIGHT: 1.0
PIMS: English/Literature (freshmen) - 01051

COURSE DESCRIPTION: This course addresses the social, personal, cognitive and knowledge-based dimensions of the reading process as outlined in the Reading Apprenticeship framework. Course work provides strategic approaches to reading in academic content area classes. Students work collaboratively and independently to develop competencies in these areas. The course also focuses on students' personal growth as readers exploring interests and reader identities. Students are required to read self-selected texts in and out of class and to monitor that reading.

- **COURSE:** Graduation Project 101
GRADE LEVEL: 11
COURSE LENGTH: Semester
PREREQUISITES: None
WEIGHT: 1.0
PIMS:

COURSE DESCRIPTION: This semester long course will take students through the steps necessary to plan, prepare, and complete a quality graduation project as required by the state of Pennsylvania and the Bristol Borough School District. Students will receive instruction on a topic selection which emphasizes community involvement and/or societal improvement. They will be guided to conduct advance research and documentation, and synthesize gathered information into a written component. The course will culminate with an oral presentation of the final project which utilizes one or more visual components.

(required for juniors enrolled in honors or academic tracked English courses who have not completed the project in their sophomore year)

FOREIGN LANGUAGE

- **COURSE:** *English as a Second Language (ESL)*
GRADE LEVEL: *As needed by individual students*
COURSE LENGTH: *Instruction continues as long as there is need and student is able to function in a regular class.*
PREREQUISITES: *Teacher recommendation*
WEIGHT: *1.0*
PIMS: *ESL - 01008*

COURSE DESCRIPTION: *The ESL course is taught to any student who shows need. The time for a student to receive this instruction varies according to the need of the individual student. The student having the most difficulty with English will receive more instructional time. The time will decrease as the student's skills improve. Once the student can function adequately in a regular classroom, or the student has reached or mastered required skills, instruction will cease.*
- **COURSE:** *Italian I*
GRADE LEVEL: *9-12*
COURSE LENGTH: *Year*
PREREQUISITES: *None*
WEIGHT: *1.0*
PIMS: *Italian I - 06141*

COURSE DESCRIPTION: *Italian I is a full year course offered as an elective. The course presents a basic introduction to the Italian language, its vocabulary and grammar. All language skills listening, reading, speaking and writing are developed to a beginning level. Basics of Italian culture and geography will be introduced.*
- **COURSE:** *Italian II*
GRADE LEVEL: *10-12*
COURSE LENGTH: *Year*
PREREQUISITES: *Italian I*
WEIGHT: *1.0*
PIMS: *Italian II - 06142*

COURSE DESCRIPTION: *Italian II is a full year course offered as an elective. The course is a continuation of the basic introduction to the Italian language. All language skills listening, reading, speaking and writing are developed to an intermediate beginning level. Basics of Italian culture and geography will be introduced.*
- **COURSE:** *Italian III*
GRADE LEVEL: *11-12*
COURSE LENGTH: *Year*
PREREQUISITES: *Italian I, II*
WEIGHT: *1.1*
PIMS: *Italian III - 06143*

COURSE DESCRIPTION: *Italian III is a full course offered as an elective. It is a conversation based, interactive course wherein students will be required to do the vocabulary and preparations to form meaningful dialogues of a colloquial nature appropriate to this level of instruction in Italian.*

- **COURSE:** Italian IV
GRADE LEVEL: 12
COURSE LENGTH: Year
PREREQUISITES: Italian I, II, III
WEIGHT: 1.1
PIMS: Italian IV - 06144

COURSE DESCRIPTION: Italian IV is a full year course offered as an elective. It is a literature based, interactive course wherein students will be required to do the readings which represent a survey of Italian literature from medieval to modern times. The reading level begins with elementary selections and increases in difficulty to an appropriate high school level.

Included in the instructional curriculum will be advanced grammar of the highly idiomatic phrases and structures, the subjunctive, the past conditional and the pluperfect tenses. Instruction will use examples from the readings wherever possible to demonstrate usage and enhance bilingual comprehension and an appreciation of Italian cultural and lifestyle.

- **COURSE:** Spanish I
GRADE LEVEL: 9 - 12
COURSE LENGTH: Year
PREREQUISITES: None
WEIGHT: 1.0
PIMS: Spanish I - 06101

COURSE DESCRIPTION: Spanish I is a full - year major course which is offered as an elective. The course presents a basic introduction to the Spanish language, its vocabulary and grammar. All language skills listening, speaking, reading and writing skills are developed to a beginning level. Basic geographical concepts and cultural patterns are also introduced.

- **COURSE:** Spanish II
GRADE LEVEL: 10 - 12
COURSE LENGTH: Year
PREREQUISITES: Spanish I
WEIGHT: 1.0
PIMS: Spanish II - 06102

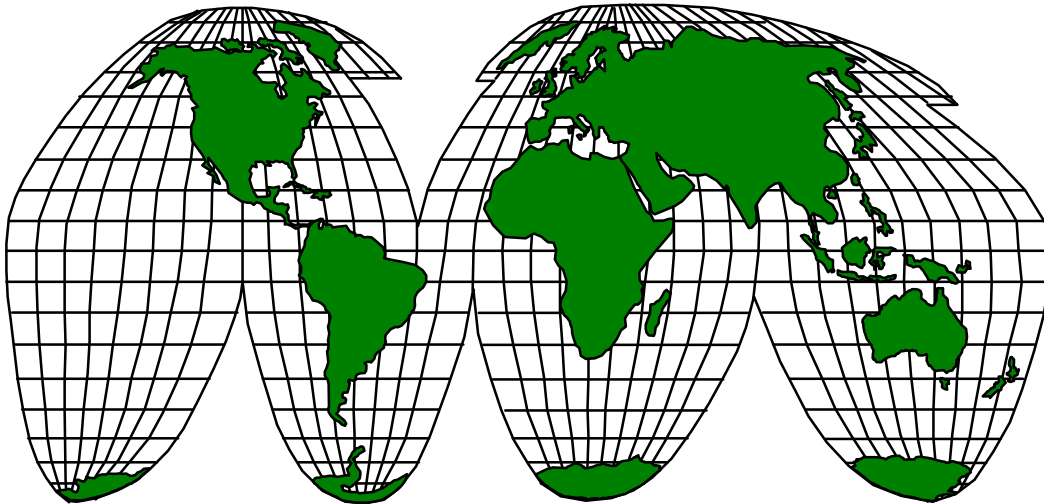
COURSE DESCRIPTION: Spanish II is a full year major course which is offered as an elective. The course continues the development of basic skills of the Spanish language, including listening, speaking, reading and writing. This course presents vocabulary and grammar.

- **COURSE:** Spanish III
GRADE LEVEL: 11 – 12
COURSE LENGTH: Year
PREREQUISITES: Spanish I, II
WEIGHT: 1.1
PIMS: Spanish III - 06103

COURSE DESCRIPTION: Spanish III is a full year major course. The course intensifies the development of basic language skills, including listening, speaking, reading and writing. Various cultural situations and literature are studied. The course presents vocabulary and grammar.

- **COURSE:** Spanish IV
GRADE LEVEL: 12
COURSE LENGTH: Year
PREREQUISITES: Spanish I, II, III
WEIGHT: 1.1
PIMS: Spanish IV - 06104

COURSE DESCRIPTION: Spanish IV is a full year major course. The course intensifies and summarizes the development of Spanish language skills including listening, speaking, reading and writing and summarizes the development of Spanish language skills. The course present vocabulary and grammar.



FAMILY & CONSUMER SCIENCE

- ***COURSE:*** Nutrition & Food Preparation
GRADE LEVEL: 9-12
COURSE LENGTH: Semester
PREREQUISITES: None
WEIGHT: 1.0
PIMS: Nutrition & Food Preparation - 16054

COURSE DESCRIPTION: Students will learn basic nutrition concepts, nutritional analysis, food costs and budgeting, regional American food traditions, vocabulary and terminology, plus basic food preparation techniques. Students will be required to work in groups to prepare, taste, and critique a variety of foods.

- ***COURSE:*** World Cultures & History through Food
GRADE LEVEL: 9-12
COURSE LENGTH: Semester
PREREQUISITES: Nutrition & Food Preparation
WEIGHT: 1.0
PIMS: FCS Other - 22999

COURSE DESCRIPTION: Students will explore cultural influences, history, terminology, and preparation techniques of foods from around the world. Students will be required to work in groups to prepare, taste, and critique a variety of international foods.

- ***COURSE:*** Career Explorations
GRADE LEVEL: 9-12
COURSE LENGTH: Semester (Divided)
PREREQUISITES: None
WEIGHT: 1.0
PIMS: Career Explorations - 22151

COURSE DESCRIPTION: Students will learn about a variety of careers related to meeting the basic human needs of food, clothing, and shelter. Students will learn skills needed to effectively operate a home, plus explore careers, which focus on the same skills.
(First Quarter – FCS/Second Quarter – IA)

- ***COURSE:*** Self-Management
GRADE LEVEL: 9-12
COURSE LENGTH: Semester
PREREQUISITES: None
WEIGHT: 1.0
PIMS: Self–Management - 22207

COURSE DESCRIPTION: Students will learn how to improve the well-being of individuals, the family and the community through resource management, balancing home and work, food science and nutrition, and childcare and elder care. Course is designed to prepare students for independent living.

INDUSTRIAL ARTS

- **COURSE:** Industrial Arts Elective
GRADE LEVEL: 9-12
COURSE LENGTH: Semester
PREREQUISITES: None
WEIGHT: 1.0
PIMS: Industrial Arts Technology Education - 13003

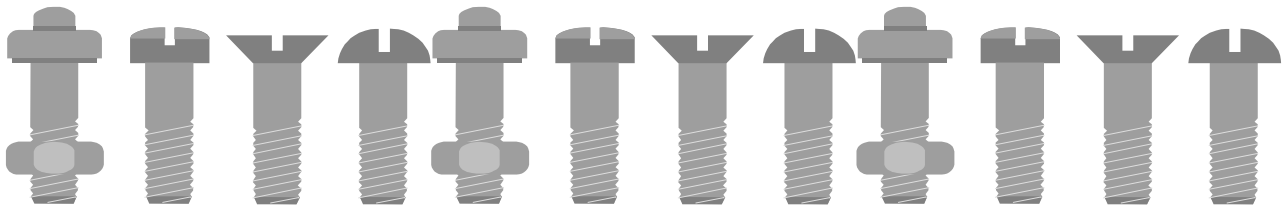
COURSE DESCRIPTION: The purpose of this elective course is to introduce students to the techniques used in furniture construction by cabinetmakers. Areas such as: joinery, adhesives, fabrication, and common safety practices will be included. Also, students will be expected to demonstrate the control of and skill in the use of hand tools as well as power tools.

- **COURSE:** Woods I
GRADE LEVEL: 10-12
COURSE LENGTH: Year
PREREQUISITES: Industrial Arts Elective.
WEIGHT: 1.0
PIMS: Woodworking - 17006

COURSE DESCRIPTION: The student will be expected to demonstrate satisfactory skills acquired in Industrial Arts Major. In addition to these skills, the student will explore complicated joinery techniques and more machine operations. A completed piece of furniture is mandatory.

- **COURSE:** Woods II & Woods III
GRADE LEVEL: 10-12
COURSE LENGTH: Year
PREREQUISITES: Industrial Arts Elective.
WEIGHT: 1.0
PIMS: Cabinetmaking – 17007

COURSE DESCRIPTION: The student will be expected to demonstrate satisfactory skills acquired in Industrial Arts Major. In addition to these skills, the student will explore complicated joinery techniques and more machine operations. A completed piece of furniture is mandatory.



MATH

- **COURSE:** Algebra I
GRADE LEVEL: 9-10
COURSE LENGTH: Year
PREREQUISITES: none
WEIGHT: 1.0
PIMS: Algebra I - 02052

COURSE DESCRIPTION: Students will be exposed to an extensive study of the basic concepts of a 1st year Algebra course. Topics discussed are operations involving signed numbers, simplifying variable expressions, linear equations and inequalities, linear functions and their graphs, and daily word problems. Completion of daily assignments is necessary for success. In preparation for the PSSA, topics of study will also include probability, statistics, geometry, and trigonometry.

- **COURSE:** Accelerated Algebra I
GRADE LEVEL: 9
COURSE LENGTH: Year
PREREQUISITES: none
WEIGHT: 1.0
PIMS: Algebra I – 02052

COURSE DESCRIPTION: This is a one-year course designed to expose students to an extensive study of the basic concepts of a 1st year Algebra course. Topics discussed are operations involving signed numbers, simplifying variable expressions, linear equations and inequalities, linear functions and their graphs, and daily word problems. Completion of daily assignments is necessary for success. In preparation for the PSSA, topics of study will also include probability, statistics, geometry, and trigonometry. This course is designed for students whose past achievement indicates that they can pursue the study more rigorously. **Teacher recommendation and/or standardized test scores will determine entrance into this course.**

- **COURSE:** Algebra I Part I
GRADE LEVEL: 9-10
COURSE LENGTH: Year
PREREQUISITES: none
WEIGHT: 1.0
PIMS: Algebra IA – 02053

COURSE DESCRIPTION: Students will be exposed to an extensive study of the basic concepts of a 1st year Algebra course. Topics discussed are operations involving signed numbers, simplifying variable expressions, linear equations and inequalities, linear functions and their graphs, and daily word problems. Completion of daily assignments is necessary for success. In preparation for the PSSA, topics of study will also include probability, statistics, geometry, and trigonometry. This course is designed for students whose past achievement indicates that they require the introduction of material at a more gradual pace. **Teacher recommendation and/or standardized test scores will determine entrance into this course.**

- **COURSE:** Algebra I Part II
GRADE LEVEL: 10 - 11
COURSE LENGTH: Year
PREREQUISITES: Algebra I Part I
WEIGHT: 1.0
PIMS: Algebra IB – 02054

COURSE DESCRIPTION: This course is intended for students who have completed Algebra IA. Course content will include polynomials functions, rational functions, solving systems of linear equations, radicals, quadratic and exponential functions. In preparation for the PSSA, topics of study will also include probability, statistics, geometry, and trigonometry.

- **COURSE:** Geometry
GRADE LEVEL: 9-12
COURSE LENGTH: Year
PREREQUISITES: Algebra I
WEIGHT: 1.1
PIMS: Geometry - 02072

COURSE DESCRIPTION: Geometry is a one-year course designed to involve the student in a study of spatial and angular relationships through the understanding and application of inductive and deductive reasoning. Algebraic skills are also strengthened in their application to the study of geometric shapes, coordinate and transformational geometry.

- **COURSE:** Accelerated Geometry
GRADE LEVEL: 9 - 10
COURSE LENGTH: Year
PREREQUISITES: Algebra I
WEIGHT: 1.1
PIMS: Geometry Analytic – 02073

COURSE DESCRIPTION: The Geometry course, this is a one-year course designed to involve the student in a study of spatial and angular relationships through the understanding and application of inductive and deductive reasoning. Algebraic skills are also strengthened in their application to the study of geometric shapes, coordinate and transformational geometry. This course is designed for students whose past achievement indicates that they can pursue the study more rigorously. **Teacher recommendation and/or standardized test scores will determine entrance into this course.**

- **COURSE:** Algebra II
GRADE LEVEL: 10-12
COURSE LENGTH: Year
PREREQUISITES: Successful completion of the Geometry course.
WEIGHT: 1.1
PIMS: Algebra II - 02056

COURSE DESCRIPTION: This course reviews and extends the concept of Algebra I bringing into greater depth the study of equations, inequalities, problem solving, factoring, linear equations, simultaneous equations and modeling. A study of quadratic functions, exponential functions, and rational functions, in preparation for advanced topics, is included the course. Geometry, statistics, and probability are integrated into this study.

- **COURSE:** Accelerated Algebra II
GRADE LEVEL: 10 - 12
COURSE LENGTH: Year
PREREQUISITES: Successful completion of the Geometry course.
WEIGHT: 1.1
PIMS: Algebra II – 02056

COURSE DESCRIPTION: Like the Algebra II course, this is a one-year course designed to review and extend the concepts of Algebra I bringing into greater depth the study of equations, inequalities, problem solving, factoring, linear equations, simultaneous equations, and modeling. A study of quadratic functions, exponential functions, and rational functions, in preparation for advanced topics, is included in the course. Geometry, statistics, and probability are integrated into this study. This course is designed for students whose past achievement indicates that they can pursue the study more rigorously. **Teacher recommendation and/or standardized test scores will determine entrance into this course.**

- **COURSE:** Trigonometry/Pre-Calculus
GRADE LEVEL: 10-12
COURSE LENGTH: Year
PREREQUISITES: Successful completion of Algebra I & Algebra II.
WEIGHT: 1.1
PIMS: Pre-Calculus - 02110

COURSE DESCRIPTION: This course extends the student's algebraic concepts to the trigonometric functions. Fundamentals necessary for success in calculus are also covered including: quadratic, exponential, logarithmic, power, and polynomial functions including the analysis of domain, range, and asymptotic behavior. This course is designed for students whose past achievement indicates that they can pursue the study more rigorously. **Teacher recommendation and/or standardized test scores will determine entrance into this course.**

- **COURSE:** Calculus
GRADE LEVEL: 11-12
COURSE LENGTH: Year
PREREQUISITES: Successful completion of Algebra I, Algebra II and Pre-Calculus.
WEIGHT: 1.1
PIMS: Calculus - 02121

COURSE DESCRIPTION: **the** calculus course initially enhances the student's learning of algebra, geometry and trigonometry. Then, an in-depth study of limits, derivatives and integrals is pursued. A daily menu of work problems is also offered. Completion of daily assignments is a requirement for success in this course.

- **COURSE:** Advanced Placement Calculus AB
GRADE LEVEL: 12
COURSE LENGTH: Year
PREREQUISITES: Teacher Recommendation
WEIGHT: 1.175
PIMS: Calculus – 02124

COURSE DESCRIPTION: This course is intended for students who have a thorough knowledge of college preparatory mathematics, including algebra, geometry (rectangular and polar coordinates), equations and graphs, lines, and conics and who have successfully completed the calculus course. Functions, limits, and continuity are topics covered thoroughly, followed by a rigorous study of differential and integral calculus.

- **COURSE:** Applications of Math
GRADE LEVEL: 10 - 12
COURSE LENGTH: Year
PREREQUISITES: Algebra I, Geometry
WEIGHT: 1.0
PIMS: Mathematics and Applications - 02154

COURSE DESCRIPTION: The goal of this course is to refine and extend concepts learned in algebra and geometry into a range of everyday situations through the application of practical problem solving strategies. Emphasis is placed on those topics required for success on the state assessment. The course will also prepare students for success in Algebra II.

- **COURSE:** PSSA Remediation: Math
GRADE LEVEL: 9-11
COURSE LENGTH: Year
PREREQUISITES: Teacher recommendation
PIMS: Mathematics – Test Preparation - 02993

COURSE DESCRIPTION: Courses will be available for students who need to improve critical reading and math skills in preparation for the PSSA. These courses will be assigned to students based on the results of standardized testing.

MUSIC

- **COURSE:** Vocal Major
GRADE LEVEL: 9-12
COURSE LENGTH: Year
PREREQUISITES: None
WEIGHT: 1.0
PIMS: Choral Music - 05110

COURSE DESCRIPTION: This course is designed for students beginning their studies in vocal music. Instruction emphasizes improvement of choral technique, sight singing, and basic music theory, and historical background of choral music. A highlight of this course is the group performances, which is requirement for the performance assessment. This includes attendance at all chorus rehearsals. It is recommended that all chorus members schedule this course.

- **COURSE:** Advanced Voice Major
GRADE LEVEL: 9-12
COURSE LENGTH: Year
PREREQUISITES: Students must have completed Voice Major
WEIGHT: 1.0
PIMS: Choral Music - 05110

COURSE DESCRIPTION: This course is designed for students who desire to continue their vocal music studies. Students will continue to improve their choral technique, sight singing skills, music and their history knowledge. Group performances and rehearsals are a requirement for the performances assessment.

- **COURSE:** Introduction to Piano
GRADE LEVEL: 9-12
COURSE LENGTH: Semester
PREREQUISITES: None
WEIGHT: 1.0
PIMS: Piano - 05107

COURSE DESCRIPTION: Intro to Piano is a fine arts course in which students will learn basic piano techniques, and the introductory stages of reading music notation. The goals of this course are for the students to develop proper technique for playing the keyboard, (such as correct hand position, and posture at the keyboard). Gain the ability to play simple pieces of music artistically and expressively. Learn basic music vocabulary and theory. Assess their own progress using software for Music Therapy in the music lab.

- **COURSE:** Instrumental Major
GRADE LEVEL: 9-12
COURSE LENGTH: Year
PREREQUISITES: This course is intended for band members
WEIGHT: 1.0
PIMS: Instrumental Music - 05109

COURSE DESCRIPTION: This course takes the student beyond the general rehearsal/performance experience. Activities will include: chamber and jazz ensemble, cultural/historical background of selected pieces, rhythm, melody and harmony (including computer drills), and improvising and composing with the computer.

HEALTH & PHYSICAL EDUCATION

- ***COURSE:*** Physical Education
GRADE LEVEL: 9-12
COURSE LENGTH: Semester
PREREQUISITES: None
WEIGHT: 1.0
PIMS: Physical Education - 02001

COURSE DESCRIPTION: Physical Education provides guidance and instruction through Physical activities designed to help students develop fitness and recreational skills. There is a strong emphasis on developing life-long skills that can be carried into adulthood. It is the hope of the instructors that students will develop respect for their bodies and continue to take care of themselves after the class is finished.

- ***COURSE:*** Health Education
GRADE LEVEL: 10
COURSE LENGTH: Semester
PREREQUISITES: None
WEIGHT: 1.0
PIMS: Health & Education - 08051

COURSE DESCRIPTION: The object of Health Education is to establish in students the importance of making healthy choices. Students face many important decisions every day and the choices they make can greatly affect their futures. It is the hope of the instructors that students will realize that the choices they make today will greatly affect them later on in life. Healthy habits are important for achieving success in personal, family, and community life.



SCIENCE

- **COURSE:** Physical Science 9H
GRADE LEVEL: 9 Honors
COURSE LENGTH: Year
PREREQUISITES: Teacher recommendation
WEIGHT: 1.135
PIMS: Physical Science - 031592

COURSE DESCRIPTION: Physical Science 9H is designed to promote a student's understanding of science through application and analysis. A primer for both chemistry and physics, the laboratory oriented curriculum includes studies of the scientific method, measuring and the metric system, density, states of matter, mixtures and solutions, chemical properties, forces, motion, and simple machines, and electromagnetic spectrum.
" Graduation Project Course."

- **COURSE:** Physical Science I
GRADE LEVEL: 9A
COURSE LENGTH: Year
PREREQUISITES: Teacher recommendation
WEIGHT: 1.1
PIMS: Physical Science - 031592

COURSE DESCRIPTION: Physical Science I is designed to promote a student's understanding of science through application and analysis. A primer for both chemistry and physics, the laboratory oriented curriculum includes studies of the scientific method, measuring and the metric system, density, states of matter, mixtures and solutions, chemical properties, forces, motion, and simple machines, and electromagnetic spectrum. " Graduation Project Course."

- **COURSE:** Applied Physical Science
GRADE LEVEL: 9B
COURSE LENGTH: Year
PREREQUISITES: None
WEIGHT: 1.0
PIMS: Physical Science - 031592

COURSE DESCRIPTION: Applied Physical Science is oriented toward helping students gain a basic understanding of matter and energy and their relationships in today's world. The curriculum includes studies of the scientific method, measuring and metrics, the structure of matter, solutions, states of matter, forces, motion, simple machines, waves, and electricity.

- **COURSE:** Biology I
GRADE LEVEL: 10A
COURSE LENGTH: Year
PREREQUISITES: Physical Science I
WEIGHT: 1.1
PIMS: Biology I – B3051

COURSE DESCRIPTION: This is a basic course covering most areas of general biology. Topics include: "genetics (DNA, genes and chromosomes) and heredity", cell-structure and function, ecology and evolution. These two basic areas are brought together as they relate to the animal kingdom bacteria, viruses and plant kingdom.

- **COURSE:** Applied Biology
GRADE LEVEL: 10B
COURSE LENGTH: Year
PREREQUISITES: None
WEIGHT: 1.0
PIMS: Biology Other - 03099

COURSE DESCRIPTION: The cell is explored in class and through microscopic examination. The animal kingdom is covered with labs representing organisms of each phylum. Human physiology is discussed with emphasis on each system of the body. Bacteria, viruses and disease are covered in class and in the lab; other topics studies will be ecology and evolution. Whenever possible, labs are used to supplement what is taught in class.

- **COURSE:** Biology II: Human Anatomy & Physiology
GRADE LEVEL: 12
COURSE LENGTH: Year
PREREQUISITES: Biology I and presently taking/or have taken/or has passed Chemistry I.
WEIGHT: 1.1
PIMS: Biology II - 03052

COURSE DESCRIPTION: This course is designed for the student with an interest in biology or planning to enter a career in healthcare, athletics, science or education. This course will apply the themes of biology to the structures and the functions of the human body. This course is 75% individual learning and lab work.

- **COURSE:** Chemistry I
GRADE LEVEL: 11-12
COURSE LENGTH: Year
PREREQUISITES: passed Physical Science I and Algebra I, passed Physical Science I & Bio. and presently taking Algebra II.
WEIGHT: 1.1
PIMS: Chemistry I - 03101

COURSE DESCRIPTION: This course is a Laboratory Science course designed to fulfill requirements for college entrance. The course surveys inorganic chemistry and includes topics such as atomic structure, the periodic table, chemical bonds, chemical equations, and stoichiometry. Problem solving and laboratory work are integral parts of the program.

- **COURSE:** Applied Chemistry
GRADE LEVEL: 11-12
COURSE LENGTH: Year
PREREQUISITES: Algebra I
WEIGHT: 1.0
PIMS: Chemistry Other - 03149

COURSE DESCRIPTION: Applied Chemistry focuses on the general uses of chemistry within the community. Topics of general chemistry such as chemical equations, atomic structure, chemical bonds and acids and bases will be studied. Problem solving and some laboratory work will be integral parts of the course.

- COURSE:** Chemistry II
GRADE LEVEL: 12
COURSE LENGTH: Year
PREREQUISITES: passed chemistry I and Algebra II
WEIGHT: 1.1
PIMS: Chemistry II – B3102

COURSE DESCRIPTION: This course is designed for students who have successfully completed the Chemistry I course and wish to continue studying chemistry. Laboratory work and problem solving continue to be the main focus of the course. Students are encouraged to be more independent in their learning. Students taking this course may wish to take the SAT II in Chemistry.

- COURSE:** Physics I
GRADE LEVEL: 12
COURSE LENGTH: Year
PREREQUISITES: currently taking or passed Chemistry I and Algebra II
WEIGHT: 1.1
PIMS: Physics I – B3151

COURSE DESCRIPTION: The Academic Physics course is highly inductive in its approach to the study of Newtonian physics. Emphasis will be placed on the application rather than the derivation of the formulas of physics. This will be accomplished through a systematic approach to problem solving, laboratory exercise and computer simulations. The course is designed to introduce students to the topics of mechanics (kinematics and dynamics), conservation laws (energy and momentum), quantum mechanics and quantum Electro dynamics (QEO) simple harmonic motion, wave motion, light (reflection/refraction), optics (lenses and mirrors), electric circuits (series/parallel).

- COURSE:** Conceptual Physics
GRADE LEVEL: 11- 12
COURSE LENGTH: Year
PREREQUISITES: passed Algebra I and Geometry and a Chemistry Course
WEIGHT: 1.0
PIMS: Conceptual Physics - 03161

COURSE DESCRIPTION: Conceptual Physics makes use of a three-stage learning cycle consisting of exploration, concept development and application. This cycle is accomplished through the use of computer simulations software, interactive CD-ROM's laboratory work including computer interfacing as well as mathematical problem solving and critical thinking discussions. This course will familiarize students with equations and units related to discussed concepts in order to apply these concepts to problem solving skills. This course is designed to introduce students to the concepts of motion, energy momentum, sound, light , heat, and electricity.

COURSE: General Science
GRADE LEVEL: 11/12
COURSE LENGTH: Year
PREREQUISITES: Counselor Recommendation
WEIGHT: 1.0
PIMS: General Science - 039992

COURSE DESCRIPTION: *The General Science course provides knowledge and experiences for students to better understand and adapt to their changing society. Because of the rapid expansion of technological innovations. The applied science program will develop the skills necessary to meet the challenges that this and future generations will encounter. In order to successfully meet these challenges, it will be necessary for students to understand the process that science undergoes and its application to the relationship between man and his environment.*

- **COURSE:** Pre-Engineering (Elective)
GRADE LEVEL: 10/11/12
COURSE LENGTH: Semester
PREREQUISITES: Currently taking or passed Geometry
WEIGHT: 1.0
PIMS: General Science - 039992

COURSE DESCRIPTION: *Pre-Engineering is a project based course for college bound students considering a career in engineering and the sciences. The course provides the student with a working knowledge of mechanical, civil/structural, electrical and bio-medical engineering. Students will learn the problem solving skills used everyday by engineers around the world. Projects students will engage in are (but not limited to) include Tower and Bridge building, Mouse Trap Car & Robotics, Household Wiring & Power Distribution, Artificial Joints & Prosthetics Design. Students will learn the role that scheduling, resources, and budget have on decision making and project management along with safety and liability. Students will be expected to work 3-4 hours per week outside the classroom doing research and project building.*

SOCIAL STUDIES

- **COURSE:** Honors American Cultures I
GRADE LEVEL: 9 Honors
COURSE LENGTH: Year
PREREQUISITES: Teacher Recommendation
WEIGHT: 1.135
PIMS: US History to Reconstruction – 04102

COURSE DESCRIPTION: American Cultures I is a ninth grade honors level course designed to teach American studies from the pre-Revolutionary period (1750s) up to the Civil War and Reconstruction. The course is developed chronologically with a focus on the development of both the history and literature of the period. The course traces a number of universal concepts such as the struggle for national unity, equality and freedom as they develop throughout the historical periods studied. Students also analyze and evaluate the creation and evolution of the American political system as it developed during this time period. In addition to mastery of the content, the course stresses development of critical thinking skills, student skill in expository and creative writing, critical reading skills, research, and oral presentation. The course provides practice to ensure proficient performance on the PSSA.

- **COURSE:** American Cultures I
GRADE LEVEL: 9A
COURSE LENGTH: Year
PREREQUISITES: Teacher Recommendation
WEIGHT: 1.1
PIMS: US History to Reconstruction – 04102

COURSE DESCRIPTION: This course provides an in-depth study of American history from the Pre-Revolutionary period (1750's) up to the Civil War and Reconstruction. Major focus is placed on the struggles for national unity, equality and freedom, and the creation and evolution of the American political system while tracing major events in this time period. Students will also develop skills in research, critical reading, creative writing and oral presentation, directed especially toward skills required for proficient performance on the PSSA.

- **COURSE:** American Cultures I
GRADE LEVEL: 9B
COURSE LENGTH: Year
PREREQUISITES: None
WEIGHT: 1.0
PIMS: US History to Reconstruction – 04102

COURSE DESCRIPTION: This course provides an in-depth study of American history from the Pre-Revolutionary period (1750's) up to the Civil War and Reconstruction. Major focus is placed on the struggles for national unity, equality and freedom, and the creation and evolution of the American political system while tracing major events in this time period. Special attention is placed on the hardships and triumphs of individuals responsible for the birth and growth of our nation. Emphasis is also placed on developing reading and writing skills necessary for proficient performance on the PSSA.

- COURSE:** *Interdisciplinary Studies 10*
GRADE LEVEL: *10 Honors*
COURSE LENGTH: *Year*
PREREQUISITES: *Teacher recommendation*
WEIGHT: *1.135*
PIMS: *US History Other - 04149*

COURSE DESCRIPTION: *Interdisciplinary English/American Culture II is a tenth grade honors level course designed to teach American studies from the beginning of the 20th Century up to the present. The course is developed chronologically with a focus on the development of both the history and the literature of the period. However, it also traces a number of universal themes as they develop throughout the historical periods studied. In addition to mastery of content, the course stresses the development of critical thinking skills; analysis, evaluation and synthesis. It helps students develop skill in expository and creative writing, research and oral presentation. It also reinforces grammar, and PSSA writing skills to advance these abilities to higher levels.*

- COURSE:** *American Cultures II*
GRADE LEVEL: *10A*
COURSE LENGTH: *Year*
PREREQUISITES: *American Culture I*
WEIGHT: *1.1*
PIMS: *US History Other - 04149*

COURSE DESCRIPTION: *This course is designed to help 10th Grade students develop an understanding of the history of the United States from the beginning of the 20th Century up to the present day. The course traces events chronologically with the expectation that students will not only develop knowledge and comprehension of people and events of each period but that they will also develop skill in interpreting the impact these people and events had on the nation's social, economic and political development. Students will also develop skills in research, creative writing, PSSA practice and oral presentation.*

- COURSE:** *American Cultures II*
GRADE LEVEL: *10B*
COURSE LENGTH: *Year*
PREREQUISITES: *American Cultures I*
WEIGHT: *1.0*
PIMS: *US History Other - 04149*

COURSE DESCRIPTION: *This course is designed to help 10th Grade students develop an understanding of the history of the United States from the beginning of the 20th Century up to the present day. The course traces events chronologically with the expectation that students will not only develop knowledge and comprehension of people and events of each period but that they will also develop skill in interpreting the impact these people and events had on the nation's social, economic and political development.*

Course Content: Civil War and Reconstruction, Economic Revolution and the Gilded Age, The Progressive Era, World War I, The Roaring Twenties, The Great Depression and the New Deal, World War II, The Cold War Era, Vietnam Conflict, Civil Rights Movement, Current Issues.

- **COURSE:** *Interdisciplinary Studies 11*
GRADE LEVEL: *11 Honors*
COURSE LENGTH: *Year*
PREREQUISITES: *American Cultures I, II, Teacher recommendation*
WEIGHT: *1.135*
PIMS: *World Cultures - 04062*

COURSE DESCRIPTION: *Interdisciplinary English/World Cultures is an eleventh grade honors level course designed to develop an understanding of the difference and similarities between the various cultures. Literature studies focus on writers and various genres of writing from, Africa, Middle East, India, China, and Japan. In addition to mastery of content, the course stresses development of critical thinking skills; analysis, evaluation, and synthesis. It helps students develop skills in expository and creative writing, research and oral presentation. Students will further develop reading and writing skills by participating in practice lessons for the taking of the PSSA. Projects will also be completed which will incorporate all of the skills and elements needed for successful completion of the graduation project*

- **COURSE:** *World Cultures*
GRADE LEVEL: *11 A*
COURSE LENGTH: *Year*
PREREQUISITES: *American Cultures I, II*
WEIGHT: *1.1*
PIMS: *World Cultures - 04062*

COURSE DESCRIPTION: *This course is designed for the student to develop an understanding of the differences and similarities between the various cultures on earth. The student will research, investigate, analyze and correlate aspects of the cultures studied. Students will also assess the differences between the social, political, philosophical, religious, and economic systems of the world's major cultures of Middle East, Africa, India, China and Japan. Through the mastery of course content and social studies skills, students will understand the interrelatedness of issues and universal themes existing between the peoples of the world. Students will further develop reading and writing skills by participating in practice lessons for the taking of the PSSA. Projects will also be completed which will incorporate all of the skills and elements needed for successful completion of the graduation project and is suitable to a college preparatory course.*

- **COURSE:** *World Cultures*
GRADE LEVEL: *11 B*
COURSE LENGTH: *Year*
PREREQUISITES: *American Cultures I, II*
WEIGHT: *1.0*
PIMS: *World Cultures - 04062*

COURSE DESCRIPTION: *This course is designed for the student to develop an understanding of similarities and differences between the elements of various cultures of the world. Students will also assess the differences between the social, political, religious, and economic systems of the world's major cultures of the Middle East, China, Japan, Africa, and India. Through the mastery of course content and social studies skills, students will understand the interrelatedness of issues and universal themes existing between the peoples of the world. Students will further develop reading and writing skills by participating in practice lessons for the taking of the PSSA. Projects will also be completed which will incorporate all of the skills and elements needed for successful completion of the graduation project.*

- COURSE:** Psychology/Economics
GRADE LEVEL: 11-12
COURSE LENGTH: Year
PREREQUISITES: None
WEIGHT: 1.0
PIMS: Psychology I – 04254 & Economics - 04201

COURSE DESCRIPTION: This course has been designed for a heterogeneous senior high school class. The students will have an opportunity to develop an understanding of various topics such as methods of study, consciousness memory and gender behavior. Also, the students will develop an understanding of human development and those forces that influence how humans grow.

- COURSE:** Problems of Democracy
GRADE LEVEL: 11/12
COURSE LENGTH: Year
PREREQUISITES: American Culture I and II
WEIGHT: 1.0
PIMS: Principles of Democracy - -4160

COURSE DESCRIPTION: This course is designed to help students develop an understanding of the American Political System as it functions in our society and as it relates to other political systems of the world. In addition, the course also includes the study of the American Political Philosophy which includes the understanding of historical documents. Further items of study concentrate on the law in United States, and its impact on American Society,

- COURSE:** Advanced Placement European History
GRADE LEVEL: 12
COURSE LENGTH: Year
PREREQUISITES: Students who register for this course should carry and “A” average in English and should have successfully completed ninth and tenth grade American Culture courses with an “A” average. They must be recommended by teachers and guidance counselors.
WEIGHT: 1.175
PIMS: AP History (European) - 04056

COURSE DESCRIPTION: Advanced Placement European history is a one-year course which is designed to provide students with knowledge and understanding of events and trends from 1450, or the High Renaissance period, to the present. The course is also, to help students develop skill in analyzing historical evidence and to demonstrate historical understanding and analysis in writing. Upon completion of this course students will take a national Advanced Placement Examination in European history, which if successfully completed, will give students advanced standing and/or academic credits in many US colleges and universities.

- COURSE:** European History
GRADE LEVEL: 11 & 12 Level A/B
COURSE LENGTH: Year
PREREQUISITES: none
WEIGHT: 1.0
PIMS: Modern European History – 04055

COURSE DESCRIPTION: This is a one year course designed to provide students with knowledge and understanding of important concepts, events, and trends in Europe from 1450, or the High Renaissance period to the present. The course focuses on major developments in European history that have worldwide significance, and have had a major impact on the development of the United States. This course is also designed to further develop reading, writing, research, and presentation skills students will need as they move on to fulfill educational requirements after graduation.