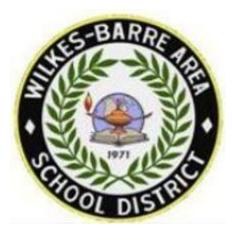
## WILKES-BARRE AREA SCHOOL DISTRICT



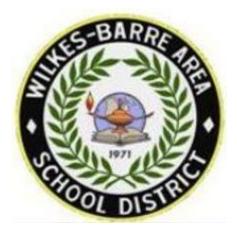
### **Program of Studies**

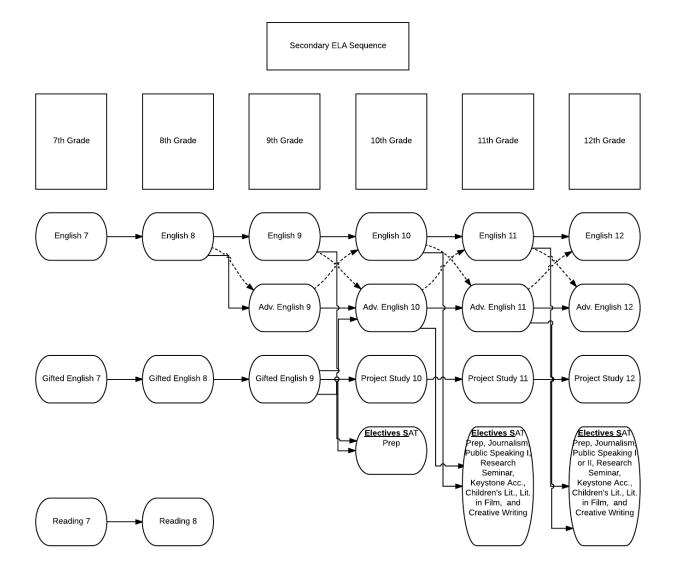
Revised 2023

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# ENGLISH DEPARTMENT





#### ENGLISH

7<sup>th</sup> Grade English 0710

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. Students focus on various types of literature such as short story, novel, poetry and nonfiction.

Students learn the five domains of effective writing by producing works in the expository/informative, persuasive, and narrative modes. Students also begin the process of research, while speaking and listening skills are developed through oral presentations.

7<sup>th</sup> Grade Gifted English 0700

Seventh grade Gifted English includes all of the components of seventh grade English, and students are provided with enrichment opportunities to gain a deeper understanding of course content. Many enrichment opportunities are projectoriented, providing students with the ability to further refine both independent working and collaborative skills, while further developing critical thinking, reading, listening, speaking, research and technology skills.

7<sup>th</sup> Grade Reading 0721

8<sup>th</sup> Grade English 0810

Eighth grade English continues to form a solid foundation for the Secondary English Language Arts Program. Instruction in reading, writing, listening, speaking, and research is delivered on a broader and deeper level in the eighth grade program. Understanding fiction and nonfiction, components within/between texts, literary devices, and organizational concepts within texts assist in both understanding literature and developing reading skills. Students focus on various types of literature such as short story, novel, poetry, and nonfiction.

Students learn the five domains of effective writing by producing works in the expository/informative, persuasive, and narrative modes. Students also continue the process of research as they compose a research paper.

8<sup>th</sup> Grade Gifted English 0800

Eighth grade Gifted English includes all of the components of eighth grade English, and students are provided with enrichment opportunities to gain a deeper understanding of course content. Many enrichment opportunities are projectoriented, providing students with the ability to further refine both independent working and collaborative skills, while further developing critical thinking, reading, listening, speaking, and research skills.

8<sup>th</sup> Grade Reading 0821

9<sup>th</sup> Grade English 0131

Ninth grade English continues to emphasize instruction in integrated reading, writing, listening, speaking, grammar, usage, and research. The literature includes a variety of genres featuring short story, poetry, prose forms, and drama. Students are exposed to a broad range of types of literature through the American, British, and World selections presented throughout the text.

Students utilize the five domains of effective writing while producing works in the expository/informative, persuasive, and narrative modes. Students also continue the process of research as they compose a research paper.

9<sup>th</sup> Grade Advanced English 0110

(Pre-requisite: 85 average or better in English 8 and teacher recommendation)

Ninth grade Advanced English includes all of the components of English 9, as students read, write, listen, speak, research, and participate in collaborative learning strategies at an accelerated rate. A variety of reading/writing experiences develop skill with cause-effect relationships, vocabulary development and usage, critical thinking (concepts, content, composition). Selections provide a variety of enrichment reading opportunities for student synthesis. Analysis and problem solving techniques complement the reading writing features of the course and become assimilated into student discussion. Pre-reading focus, motivation, purpose-setting questions, cross-curricular connections, multiculturalism- all play integrated roles in this curriculum.

9<sup>th</sup> Grade Gifted English 0900

Gifted English 9 includes all of the components of Advanced English 9, and students are provided with enrichment opportunities to gain a deeper understanding of course content. Many enrichment opportunities are project-oriented, providing students with the ability to further refine both independent working and collaborative skills, while further developing critical thinking, reading, listening, speaking, and research skills.

10<sup>th</sup> Grade English 0231

The English 10 curriculum consists of a blend of reading, writing, and speaking skills. Students are required to read and analyze American literature in order to experience fundamental features of diverse literary styles and genres. The critical analysis of American literature broadens and deepens textual comprehension. Simultaneously, it strengthens meaning and historical significance, while incorporating and emphasizing student connections.

Students compose several process writing compositions covering a variety of topics and incorporating different modes and styles. Effective writing domains – focus, content, organization, style, conventions – are addressed through process writing compositions with an emphasis on appropriate language and sentence construction as they pertain to style. Students continue the research process by completing a research paper using varied sources.

10<sup>th</sup> Grade Advanced English 0210

(English 9 Pre-requisite: 85 average or better and teacher recommendation Advanced English 9 Pre-requisite: 85 average or better OR 75 average or better with teacher recommendation)

Tenth Grade Advanced English includes all the components of English 10, as students study American literature within the framework of American historical settings. Additionally, the Advanced English curriculum provides enrichment through supplemental reading, variety and depth of student written responses, and a greater sense of comprehension within the curriculum. Students are challenged by an accelerated pace of critical reading, analysis, application, and response to literature that is maintained and reinforced throughout the year. 11<sup>th</sup> Grade English 0331

The 11<sup>th</sup> grade English course focuses on British literature. Students study various British historical settings within the framework of British literature. Students read varied core reading selections – including works from noted authors such as Shakespeare, Chaucer, Swift, and Orwell. The reading of selections from numerous British authors generates student reflection and response. In preparation for Keystone testing, a variety of student written responses and a continuing growth in language arts is integrated into the course. Process writing assignments are emphasized incorporating a variety of writing techniques using focus, content, organization, style, and conventions.

11<sup>th</sup> Grade Advanced English 0310

(English 10 Pre-requisite: 85 average or better and teacher recommendation Advanced English 10 Pre-requisite: 85 average or better OR 75 average or better with teacher recommendation)

Eleventh grade Advanced English includes all the components of English 11as they read, write, listen, speak, research, and participate in collaborative learning strategies at an accelerated rate. Students are challenged by critical reading and analysis of British literature selections, novels, and integrating an in depth study of the English language development. A multiplicity of topics, modes, and styles are incorporated including on-demand writing techniques to assist in preparation for the Keystone and SAT standardized tests. Students will continue the process of research as they compose a formal literary analysis paper.

12<sup>th</sup> Grade English 0431

The English 12 curriculum complements all previous integrated language arts instruction as it prepares students to participate in the global community. Students read a variety of genres from various ages and cultural settings as they study world literature. Critical thinking skills are developed as students make frequent connections between personal experience with text and a broader world view. Students utilize the five domains of effective writing while producing works in the narrative, persuasive, and informative modes—including resume and letter writing. Process writing and writing assessment blend with the instruction of grammar and reading throughout the English curriculum. 12<sup>th</sup> Grade Advanced English 0410

(English 11 Pre-requisite: 85 average or better and teacher recommendation Advanced English 11 Pre-requisite: 85 average or better OR 75 average or better with teacher recommendation)

Twelfth includes all the components of English 12 as they read, write, listen, speak, research, use technology, and participate in collaborative learning strategies at an accelerated rate. Students are guided by questions of levels of increasing complexity, recalling, interpreting (inference and analysis), and applying (generalization, extension, judgment). World literature selections provide a variety of enrichment reading for student synthesis, and students are offered choices and greater flexibility. A multiplicity of writing topics, modes, and styles are incorporated as students progress according to their abilities. Students continue the process of research as they compose a formal literary analysis paper.

Project Study 10 0200

The independent learning project, Project Study 10, is intended to further expand learning experiences.

Academically Gifted students, guided by a teacher-advisor, select topics to research throughout the year. Students meet with the teacher-advisor on a regular basis to assess progress on 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 and the individual student's needs. Within the framework of the independent learning project, a learning contract is employed between the student and the teacher-advisor to describe the assignments, requirements for completion, and methods of evaluation. The ultimate goal of Project Study 10 is for students to further develop independent learning skills and to ultimately be able to apply those skills to learning situations outside of the school environment.

Project Study 11 0300

Students who have successfully completed Project Study 10 are recommended to take Project Study 11, which is an extension of the independent learning opportunities found in Project Study 10. Depending on the student's individual academic needs, students may be involved in academic acceleration beyond the school environment. Like the Project Study 10 independent project, the student meets with the teacher/advisor to determine project specifications, timelines, and evaluations.

Project Study 12 0400

Seniors who have successfully completed Project Study 0200 or 0300 are recommended by the Gifted teacher for Project Study 0400. In the senior year, like Project Study 10 and Project Study 11, this is an individually-selected learning opportunity. Many students opt to take college course at King's College in the College Discovery Program, at Wilkes University in the Young Scholars' Program or Luzerne County Community College. Regular conferences are scheduled with the home school Gifted teacher to determine progress made on the independent learning project.

Journalism 0500

Journalism is a semester course designed to provide an overview for students interested in journalism and developing their skills as writers. Students will learn the fundamentals of news, feature, editorial and sports writing, as well as copy reading, news style and editing. Students will create numerous original stories using varied structures and writing techniques. They will also learn to develop computer generated layouts and graphics. Students will be given opportunities to begin work on a professional portfolio as well as publication in the school newspaper and yearbook.

Public Speaking 0520

#### **Public Speaking I**

Students will learn to articulate themselves through a variety of oral and written communication methods. Students will learn proper techniques for basic listening and speaking skills; how to write effective critical responses to speaking, listening, and reading experiences; persuasive techniques in writing and proper speech techniques for interviews and formal environments. Throughout the course, students will draft, revise, and present speeches in order to better their public communication skills, as well as perform rehearsed dramatic interpretations on popular social issues, and be presented with activities to gain confidence in impromptu speaking.

Public Speaking II 0530 (Pre-requisite – Public Speaking I)

This course provides the opportunity to enhance and extend the skills students developed in Public

Speaking I. In addition to enforcing prior knowledge from Public Speaking I, students will write, revise, and present speeches that portray interpretations and analysis of literary works, and current events, incorporating concrete evidence and research into speeches. They will write and revise original dramatic interpretations on popular issues; and learn the techniques of the advanced interview process to hone the skills of impromptu speaking.

Advanced Placement English 12 0415

(Pre-requisite: See Guidance Counselor or AP English Instructor)

AP English Literature and Composition engages students in the careful reading and critical analysis of imaginative literature. Through the close reading of selected texts, students deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. As they read, students consider a work's structure, style, and themes as well as such smaller-scale elements as the use of figurative language, imagery, symbolism, and tone. AP English is a college-level course designed to prepare you for writing in college as well as for taking the AP English Literature Exam in May. The reading selections and writing assignments are rich and challenging; the pace of the class will be intense. We will concentrate on analyzing literature by doing "close readings" and on developing other skills necessary for the exam. The analytical skills you learn in this class will serve you well throughout the rest of your academic career.

Cultural Perspectives through Children's Literature 0560

This course will focus on using a diverse group of children's literature to critically think, speak and write about the cultural perspectives shown through that literature. Students will learn how to create a children's book. The students will publish their book in print or online.

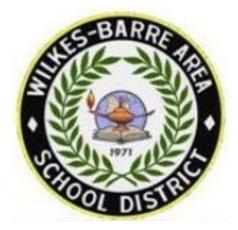
Literature in Film 0570

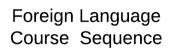
This elective course will seek to examine a variety of topics in literature and film, including the connections and interplay between the two artistic mediums. Primarily, this will be a course in literature & film analysis, highlighting the elements of "story" present in both. In addition, selected novels, stories, & plays will be analyzed in relation to film versions of the same works in order to analyze and explore the possibilities &/or problems involved in the transfer from page to screen. This course will also delve into films that do not have written work as their inspiration to explore how these films reflect and work in relation to an understanding of the elements of literature.

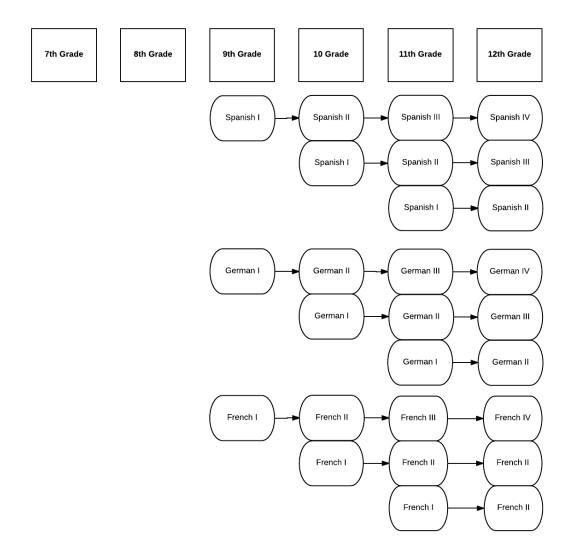
Creative Writing 0540

Creative writing emphasizes improving each student's ability to communicate using the written word. Students will study the written word through a variety of methods, including exploring the writing process, journal writing, poetry, short stories, plays, and other genres. Students will read, interpret, and analyze a variety of poems and short fictional works by a variety of authors, including their own works. Through reading and writing activities, students will gain a sound understanding of the elements and forms of writing to create their own written creations. Aside from broadening students' literary scope, helping them read with a critical eye, and exposing them to constructive criticism, this class will most importantly cultivate an artistic appreciation for the beauty of language.

## FOREIGN LANGUAGE DEPARTMENT







### **FOREIGN LANGUAGE**

Spanish I 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 I 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 I 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.

French 2 1220

French II continues development of hearing, speaking and comprehension abilities initiated in French. There is increased emphasis in 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

The course first reviews the basic grammatical concepts and then proceeds with the practice of listening, speaking 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 the 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 student. 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 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 the 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.

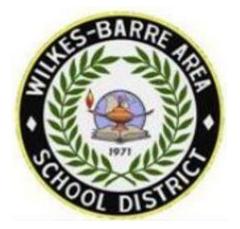
Spanish 4 1423

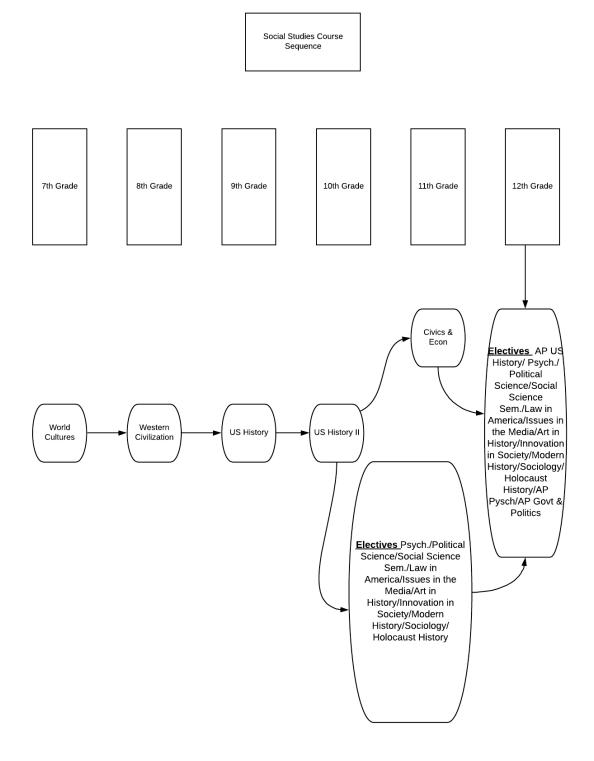
Continued review of fundamentals of grammar with emphasis on newer aspects and exceptional aspects of the Spanish Language. Refinement of pronunciation, development of ability to comprehend native speakers and to speak in context understandable to native speakers. Continued consideration of characteristics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

Spanish I for Native Speakers 1100

Spanish II for Native Speakers 1110

# SOCIAL STUDIES DEPARTMENT





### **SOCIAL STUDIES**

7th Grade Social Studies – World Cultures 2720

This course will cover major geographic, cultural, historic and global events in addition to major cities, world landmarks and wildlife. It has been designed to be the building blocks which will serve as the foundation for future social studies courses that students will take in 8th, 9th and 10th grade. 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 are important. This program is based on and incorporates Literacy 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.

8th Grade Social Studies- Western Civilization 2820

The Eighth Grade Social Studies Course is a standards-based program that examines World History and the rise of early civilizations from the Birth of Civilization to the Exploration of the Americas. Students will study the cultural and geographical interactions from the Acropolis to North American Colonies with an emphasis on expansion, innovation, and exploration of the various regions. Various strategies that will increase reading comprehension and promote cross curriculum lessons will be the mainstay of this course.

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 1763 to 1910. This course also includes an overview 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 political 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. United States History II 2230

Tenth grade Social Studies requires the study of American History from Imperialism to the Twenty First Century. It focuses on different themes in history from Modernization 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 conflicts at 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. Students will be assessed in a variety of ways including essays, projects, group discussion, and debate while meeting state standards that cross a variety of curriculums.

Advanced Placement (AP) United States History 2310

(Prerequisite: Teacher Recommendation and US I and II.)

AP U.S. History is a junior/senior elective designed to provide students with the analytical 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. Civics/Economics

2221

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. It has a friendly writing style and systematic, thorough skills instruction that provides students with the tools they need to become responsible, engaged citizens. This course promotes active civic participation, and provides a solid coverage of basic economic principles which will promote student understanding of the American economy. Students will also employ indispensable technology resources, including *I-Civics*, and *Ever-fi* which will increase hands on participation during this course. This course is required for graduation. Advanced Placement (AP) United States Government and Politics 2710

AP U.S. Government and Politics is an introductory college-level course in U.S. government and politics. Students cultivate their understanding of U.S. government and politics through analysis of data and text- based sources as they explore topics like constitutionalism, liberty and order, civic participation in a representative democracy, competing policy-making interests, and methods of political analysis. 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. 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, and divorce.

#### **AP Psychology**

#### 2424

This course introduces students to the systematic and scientific study of human behavior and mental processes. While considering the psychologists and studies that have shaped the field, students explore and apply psychological theories, key concepts, and phenomena associated with such topics as the biological bases of behavior, sensation and perception, learning and cognition, motivation, developmental psychology, testing and individual differences, treatment of abnormal behavior, and social psychology. Throughout the course, students employ psychological research methods, including ethical considerations, as they use the scientific method, analyze bias, evaluate claims and evidence, and effectively communicate ideas. 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 is designed to engage students in the investigation of current global, national, and regional issues. This course will challenge students to study the critical issues facing our world and evaluate news events of interest and importance. Units of study will be topical, including but not limited to peace and security interests, health issues, economic concerns, and political events. Learning activities will include analyzing case studies, listening to ideas and opinions of other students, conducting an investigation, brainstorming, studying films, working in community projects, comparing and contrasting points of view utilizing social science books and articles. This course is an elective and is offered to seniors.

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), and 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.

Media Studies 2550

This is an elective course open to approved juniors and seniors. It is a two-semester course. One semester focuses on the foundations of journalism using English subject-based curriculum. The other semester will focus on Social Studies based curriculum, studying the historical, sociological, and political impact the media has gone through from the beginning of mass media through the present. Students will be required the complete projects involving the school newspaper and school yearbook as part of their quarterly grades.

Art in History 2560 Description: This is an elective course open to all 10th-12th grade students. This course is designed to give students the opportunity to discover, appreciate, and acquire knowledge of art history through the ages. Students will learn to examine and critically analyze major forms of artistic expression from various cultures. Students will examine architecture, manuscripts, painting, drawing, printmaking and sculpture, as a reflection of a given civilization and time period. This class will give students the opportunity to use their prior knowledge of history, geography, politics, religion, languages, science, literature, and the visual arts. Modern US History 2561

This course will define the principal political, social, economic, and cultural forces after World War II to the present day. Emphasis will be given to the challenges and changes at home and abroad which the United States has experienced during the Cold War and post-Cold War era with the development of the world's largest military industrial-scientific complex.

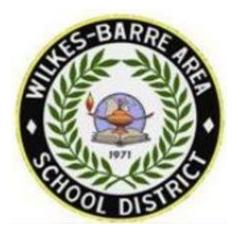
Sociology 2570

This course aims to provide students with comprehensive knowledge and relevant skills in the field of sociology in preparation for more advanced educational exploration into the subject and application to real life experiences. By investigating classical and contemporary sociological theorists, students can apply distinct perspectives of sociology to evaluate social groups, institutions, and problems. The process of socialization occurs for individuals in different ways, through various life stages, and the agents contributing to socialization are essential to this study. In society individuals are stratified by social class; recognizing the classification and impact of social class is a complex and rich subject explored as a way to understand why individuals are treated differently based on their background. As students examine how American society operates and how people behave, they explore topics including family, minority groups, crime, prison, and poverty.

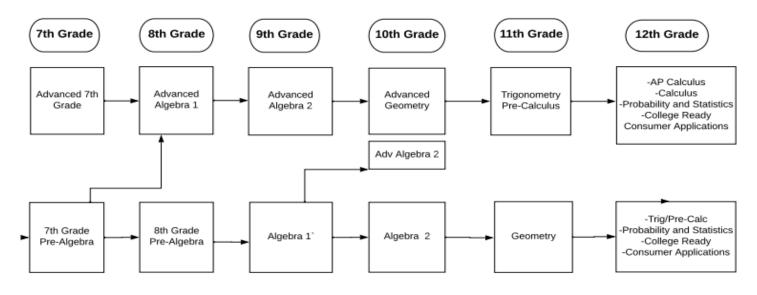
Holocaust History 2580

This course covers the background to and implementation of History's most egregious crime. The course covers the roots and development of Antisemitism in European society from ancient times up to and including the 20th century, as well as, the life and assent of Adolf Hitler and the National Socialist Party to complete control of Germany. The course briefly discusses both world wars in relation to their impact on the eventual Holocaust and discusses the mechanical operation (ghetto and camp systems) of the Nazi plan to attain a "Final Solution to the Jewish Question". The course finishes with an examination of active resistance inside Germany as well as the Nuremberg War Crimes Trials in 1945-1946 and the establishment in 1948 of the state of Israel.

# MATHEMATICS DEPARTMENT







College Ready Math -run in conjunction with LCCC - must not need a math to graduate, if they do they double up with Consumer Apps. y Note: Students are required to be a back a the College Beach

College Ready Note: Students are required to have had Algebra 2 to take the College Ready Math. Thus they may take it alone or concurrently with Algebra 2.

### **MATHEMATICS**

7<sup>th</sup> Grade Advanced Pre-Algebra 3730

(Pre-requisites: Multiple criteria will be used for placement into this course. Areas that will be a focus include PSSA results, the 7<sup>th</sup> grade placement exam, district assessment results, teacher recommendation, final average in 6<sup>th</sup> grade math and attendance.)

To stay in the advanced track students must maintain an 85% or higher. If a student falls below the 85%, teacher recommendation will be considered.

The 7<sup>th</sup> Grade Pre-Algebra Math Course provides students with a comprehensive arithmetic curriculum along with an introduction to Algebra. This course will include improved proficiency of arithmetic concepts such as fractions, percentages, statistics, and geometry. The units in this course will include concepts of problem solving and application pertaining to integers, variables, and equations. These topics are an integral part of the mathematics background needed for Algebra I. Students must maintain an 85% or higher to continue on to the 8<sup>th</sup> Grade Advanced Algebra 1.

7<sup>th</sup> Grade Pre-Algebra A 3720

The 7<sup>th</sup> Grade Pre-Algebra A Math Course is designed to prepare students for success in Algebra I and the current requirements of the PSSA test. This course will introduce the fundamental Algebra skills involving variables, expressions, and equations. There is a strong emphasis on problem solving and application of math as related to the PA State standards in mathematics. Students must maintain a 75% or higher to continue on to 8<sup>th</sup> Grade Pre-Algebra B. Students earning higher than a 75% will have the opportunity to move to the 8<sup>th</sup> Grade Advanced Algebra I Course.

8th Grade Advanced Algebra I 3830

(Pre-requisites: Multiple criteria will be used for placement into this course. Students must have a final average of 85% or higher in Advanced 7<sup>th</sup> Grade Pre-Algebra. Other focus areas include district assessments and teacher recommendation.)

The 8<sup>th</sup> Grade Advanced Algebra I stresses the concept and problem solving characteristics of Algebra 1. Problem solving strategies are introduced early on and carried throughout the course in line with the Algebra I curriculum and content. This course is a comprehensive study of Algebra 1 at an accelerated pace. Students must maintain an 85% or higher to continue on to the 9<sup>th</sup> Grade Advanced Algebra II.

8<sup>th</sup> Grade Pre-Algebra B 3820

The 8<sup>th</sup> Grade Pre-Algebra B Math Course is a continuation of a two- year sequence that will reinforce key topics of Pre-Algebra, promote mastery of the essential concepts of beginning Algebra and prepare students for the rigor of an Algebra 1 course. There is an emphasis on problem solving and application of math as related to the PA State standards in mathematics.

Algebra I 3123

(Pre-requisites: Successful completion of Concepts of Algebra Part II or Pre-Alg B.)

This course stresses the concept and problem solving characteristics of Algebra. It is based upon the PA Core State Standards in preparation for the Pennsylvania Algebra 1 Keystone Exam. This course introduces students to the structure and properties of the real number system, and the significance of those properties in solving equations and inequalities. The language and symbolism of Algebra are emphasized. Techniques for solving word problems are incorporated. Logical thinking skills will be developed. This is a college prep mathematics class intended to prepare students for upper level mathematics content and the Keystone Exam.

Algebra II 3325

(Pre-requisites: Successful completion of Advanced Algebra I.)

This course is a continuation of Algebra 1. Students enrolling in this course are expected to apply prior algebra knowledge in order to enhance current algebra practices. The focus of this course is on critical thinking, decision-making and problem-solving strategies as they apply to the various Algebra II content areas. The concepts learned in Algebra I are reviewed and expanded into the study of products and factors of polynomials, operations on rational expressions, the complex number system, and quadratic equations and inequalities. In this course students expand their algebraic skills and knowledge to prepare for higher-level mathematics. A graphing calculator will be used to enhance key math concepts.

Advanced Algebra II 3326

(Pre-requisites: Successful completion of Advanced Algebra I.)

This course is a rigorous continuation of Algebra 1. It contains all the necessary components of the Algebra 2 course at a faster pace with enrichment projects. The focus is on critical thinking, decision-making and problem-solving strategies as they apply to the various Algebra II content areas. The concepts learned in Algebra I are reviewed and expanded into the study of products and factors of polynomials, operations on rational expressions, the complex number system, and quadratic equations and inequalities. In this course students expand their algebraic skills and knowledge to prepare for higher-level mathematics. A graphing calculator is used to enhance understanding of key math concepts.

Geometry 3230

(Prerequisite(s): Completion of Algebra II.)

This course uses the knowledge obtained in Algebra II using an analytical approach. 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.

Advanced Geometry 3231

(Pre-requisites: Successful completion of Advanced Algebra II.)

#### **Course Description:**

This course uses the knowledge obtained in Algebra II in an analytical approach. Geometry enables a student to study relationships between geometric figures and deductive reasoning. This course develops a logical mathematical system using definitions, assumptions, properties and theorems. The accelerated content also includes coordinate geometry, transformational geometry, solid geometry, and an introduction to Trigonometry. Trigonometry Pre-Calculus 3426

(Prerequisite(s): Teacher Recommendation)

This course is a prerequisite for Calculus and AP Calculus. One half of the course is built around the six trigonometric functions. The functions are defined from previously learned algebraic and geometric concepts. These functions allow the student to solve problems and applications of right triangles. Concepts include verifying trigonometric identities, solving trigonometric equations, graphing trigonometric equations, and applying the laws of sine and cosine.

During the other half of the course students will rely on a solid background in algebra and geometry as they deepen their understanding of equations and inequalities relating to linear, quadratic, and higher degree polynomials. Exponential, logarithmic, polynomial and rational functions are emphasized. Relationships are made between the equations and graphs of the conic sections, exponential, and logarithmic functions. Study will include the concept of limits and the derivative to prepare for Calculus. Students will be able to solve problems in the areas of trigonometry, analytic geometry and upper-level algebraic concepts. An emphasis will be placed on the four approaches: algebraic, numerical, graphical, and verbal. A graphing calculator will be used to solve problems.

Calculus 3423

Purpose of this course is to present the concepts that lie at the heart of calculus. The course includes the treatment of functions, series, sequences, limits, continuity, exponential functions, convergence, the derivative, applications, the integral maxima/minima, partial derivative, and rules for differentiation/integration, conic sections, and vectors.

Advanced Placement Calculus 3413

This course covers the topics in the calculus course but at a faster pace to prepare students to take the AP Calculus Exam. Students will explore concepts, methods, and applications of differential and integral calculus. They will work to understand the theoretical basis and solve problems by applying their knowledge.

**Consumer Applications** 

#### 3424

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

College Ready Math 3500

(Pre-requisites: Students enrolling in College Ready Math must have enough math credits to graduate prior to taking this course, students must have a grade of "C" or higher in the math course taken prior to "College Ready" math, teacher recommendation will be used to place students. Areas such as discipline, homework completion, and attendance will be focal areas.)

This course is designed to prepare seniors for college level math entry. Students will work on a series of 11 modules in a part computer/ part lecture format for the first semester of the year. They will progress through the modules at their own individual pace with teacher guidance and instruction. When all 11 modules are completed, students will then take the LCCC <u>Accuplacer</u> Exam. Those students that successfully pass the exam will be afforded the opportunity to enroll in a college class at Luzerne County Community College for the 2<sup>nd</sup> Semester at minimal cost.

Probability and Statistics 3412

(Pre-requisites: Completion of Algebra II and Teacher Recommendation.)

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 are carried throughout the course.

#### Discoveries 6 7730

This course focuses on the problem solving process using both "Unplugged - Hands on" activities and online self paced curriculum presented in a series of puzzles, challenges, and real world scenarios. Students will be introduced to and identify how computers "think" through different types of processing. Students will develop and work with applications to identify the types of inputs and outputs used in a variety of applications and determine the type of processing used.

This course focuses on the students creating and sharing content on their own web pages. Students will be introduced to HTML and CSS as they develop the web pages. Students will practice and apply programming skills such as debugging, using resources, and teamwork.

Students will also develop Digital Literacy Skills covering intellectual property and copyright licensing and about what their digital footprint is.

Discoveries 7 7731

This course focuses on coding experiences creating animations, interactive art, and games using the Game Lab application. The unit will begin with basic shapes, building to more sophisticated sprite-based games, culminating in a final individual program.

The unit focuses on broader implications of computing on society, as student will complete design challenges to help them better understand the needs of others as they develop solutions to problems. Team projects will have students identify a need they care about, prototype then test solutions on real users.

Discoveries 8 7732

The course focuses on the importance of data in solving problems and how computers can assist in this process. Students will explore different systems used, how data collection takes place, and how computers can help to automate the process. Students will learn how computers learn to make decisions and develop machine learning projects around real-world data. Students will develop a machine learning app to solve a personally relevant problem.

Computer Programming I 3950

(Prerequisites: 80 or above in Algebra 1)

Computer Programming 1 is a college prep course that serves as an introduction to Computer Science. Students use object-oriented programming in the C# language. Some topics include event-driven processes, modular computer programming, decision structures, loops, arrays, and classes to produce finished software programs. They use the design process to create many programs by determining specifications, designing the software, and testing and improving the product until it meets the specifications. By the end of this course, students will have a solid foundation for further study in computer science. Computer Programming II 3951

(Prerequisites: Completed Algebra 1 and have completed CP1)

Computer Programming 2 is an in-depth college prep course for those students who are interested in furthering their knowledge and understanding of computer science and writing finished programs. Students are introduced to top-down design and delve deeper into advanced computer programming concepts in the Java programming language. Some advanced topics include: defining classes, control statements, creating a user interface, arrays, and searching and sorting algorithms. By the end of this course, students will have a solid foundation for further study in computer science.

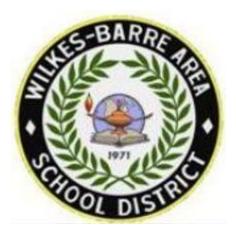
Computer Programming III (Non AP CS) 3952

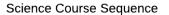
Prerequisites: Completed Algebra 1, Algebra 2 and have completed CP1 and CP2. Computer Programming 3 is an in-depth and advanced college-prep course that is designed for advanced topics for those students who are interested in Computer Science in college. The first semester includes advanced topics include multidimensional arrays, recursion, polymorphism, and algorithm analysis all while using the Java programming language. The second semester includes other computer programming concepts including HTML5, Unity development engine, etc.

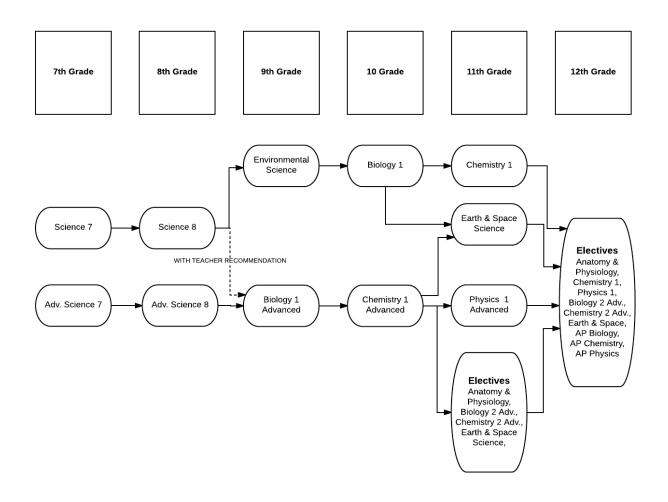
#### **AP Computer Science**

The third and final computer science/programming course introduces students to the Java programming language while preparing students for the AP exam. Fundamental topics in this course include the design of solutions to problems, the use of data structures to organize large sets of data, the development and implementation of algorithms to process data and discover new information, the analysis of potential solutions, and the ethical and social implications of computing systems. This course is designed to strengthen students' knowledge on object-oriented programming, coding design, documentation, error checking, and debugging.

# SCIENCE DEPARTMENT







#### Science

Science 7 4720

Science 7 focuses on Physical Science and Earth Science as well as Environmental Literacy and Sustainability and Technology and Engineering. This course provides students with a solid foundation for future science courses. Science 7 provides an introduction to topics in physical science such as structure and properties of matter, chemical reactions, forces and interactions, energy and waves and electromagnetic radiation; topics in earth science such as space systems, Earth's systems, history of the Earth, and weather and climate; and topics in environmental science such as agricultural systems, watersheds and wetlands, and environmental sustainability and stewardship. Students are engaged in these topics through scientific inquiry and best science practices including making observations, asking questions, investigating, collecting and analyzing data and communicating science results.

Advanced Science 7 4720G

Advanced Science 7 focuses on Physical Science and Earth Science as well as Environmental Literacy and Sustainability and Technology and Engineering. This course provides students with a solid foundation for future science courses. Advanced Science 7 features the same topics as Science 7 while blending similar topics from the Science 8 curriculum designed specifically to enrich and accelerate our students. Using scientific inquiry and analysis, students delve further into the content through hands-on, inquiry-based activities/projects, independent assignments, use of models, explanation of concepts, and scientific investigations. Students are given the opportunity to further refine both independent work and collaborative skills, while further developing critical thinking, inquiry, communication, research, and technology skills.

Science 8 4820

Science 8 focuses on Life Science and Earth Science as well as Environmental Literacy and Sustainability and Technology and Engineering. This course continues to provide students with a solid foundation for future science courses. Science 8 provides an introduction to topics in life science such as natural selection and adaptations, matter and energy in the environment, biomes and ecosystems, and plant processes and reproduction; topics in earth science such as earth's dynamics, history of earth, climate, natural resources, and space systems; topics in environmental science such as agricultural systems, watersheds and wetlands, and the environment and society. Students are engaged in these topics through scientific inquiry and best science practices including making observations, asking questions, investigating, collecting and analyzing data, and communicating science results.

Advanced Science 8 4820G

Advanced Science 8 focuses on Life Science and earth Science as well as Environmental Literacy and Sustainability, and Technology and Engineering. This course continues to provide students with a solid foundation for future science courses. Advanced Science 8 features the same topics as Science 8 while blending some content from higher level science courses to enrich and accelerate our students. Using scientific inquiry and analysis, students delve further into the content through hands-on, inquiry-based activities/projects, independent assignments, use of models, explanation of concepts, and scientific investigations. Students are given the opportunity to further refine both independent work and collaborative skills while further developing critical thinking, inquiry, communication, research, and technology skills.

Environmental Science 4321

This course focuses on topics such as ecology, agricultural and environmental systems and resources, environmental literacy skills, and sustainability and stewardship. This course combines 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 students. Discussion of science topics affecting social issues are interwoven into the content.

Biology 1, Advanced 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 the chemistry of life, cellular understanding, DNA, Theory of Evolution, and ecology. *Placement in 9th grade requires instructor recommendation and a minimum 85 average in Science 8.* 

Biology 1 4227

This course is designed to give the student an understanding of the concepts of the biological sciences including those topics listed in Biology I, Advanced. The 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 academics provide excellent science experiences, but are less rigorous than Biology 4223.

Chemistry 1, Advanced 4325

This is an introductory chemistry course for college preparatory students. Emphasis is on scientific methods, basic chemical principles, chemical calculations, problem solving, and laboratory methods. Descriptive chemistry is undertaken where necessary for course continuity. Inquiry teaching strategies are used often. The use of calculators and computers is encouraged in solving 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. *Chemistry 1 placement requires students to have successfully completed Biology 1 or Advanced Biology. Students should be proficient or advanced in the Keystone Algebra Exam, maintain an 80 percent or better average in Algebra 1 or have successfully completed Keystone Acceleration A or B.* 

Anatomy and Physiology 4500

This course introduces students to human anatomy and physiology, with emphasis on the systems of the body and how they are interrelated. Course topics will include medical terminology, basic chemistry, cell and tissue structure, anatomical identification and the functions of the structures as they relate to the systems of the human body. The course will offer opportunities for practical investigative work.

(Anatomy and Physiology placement requires students to be proficient or advanced in the Keystone Biology Exam and have successfully completed Biology 1 or Advanced Biology 1. The student also must have successfully completed Chemistry 1 while maintaining an 80% average or better).

Earth and Space Science 4130

The Earth and Space science course focuses on the study of space, geologic structures and forces, the waters on our planet, and the atmospheric forces that shape our world. This course relates people to their physical environment from the surrounding locale to the reaches of the universe. This course is probably the most useful course of all for students in regard to their everyday experiences in the natural world. Laboratory experiences, demonstrations, and multi-media presentations are used to illustrate principles. *Earth & Space Science requires students to have successfully completed 2 credits of high school science.* 

Physics 1, Advanced 4424

The fundamental concepts involving energy-matter relationships in our physical world are studied in terms of linear and rotational mechanics, thermodynamics, electricity, and light and sound waves. Nuclear energy and modern physics topics will be introduced as the schedule permits. Many examples and demonstrations involving the practical application of basic scientific principles are given. Laboratory experiences provide reinforcement of basic scientific principles in addition to providing the opportunity for the development of laboratory skills and techniques. Those students desiring careers in science, medicine, engineering and mathematics should take this course. *Placement requires students to have successfully completed Chemistry 1 or may take Chemistry I concurrently. Students should be proficient or advanced in the Keystone Algebra Exam, have maintained an 80 percent or better average in Algebra 1 or successfully completed Keystone Acceleration A or B. <u>It is highly recommended that Physics 1 be taken prior to or concurrently with a level 2 science elective.</u>* 

Biology 2, Advanced 4413

Biology 2 is designed for high school students previously credited with a first biology course. 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 cytogenetic study. *Biology 2 placement requires students to be proficient or advanced in the Keystone Biology Exam and have successfully completed Biology 1 or Advanced Biology 1, and have successfully completed Chemistry 1.* 

Chemistry 2, Advanced 4415

Chemistry 2 is a laboratory-oriented elective course available to students who may 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 advanced placement or college equivalency examinations. *Chemistry 2 placement requires students to have successfully completed Chemistry 1.* 

Science 3, Advanced Studies 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. *Science 3 Advanced Studies requires students to have successfully completed at least one level 2 science course and have instructor(s) approval.* 

Advanced Placement (AP) Physics II 4419

The AP Physics II is an algebra-based introductory college-level physics course. Its mathematics treatment is the most demanding of the entire science sequence. Students cultivate their understanding of physics through inquiry-based investigations as they explore these topics: fluids, thermodynamics, electrical force, electric circuits, magnetism, electromagnetic induction, geometric and physical optics, and quantum, atomic, and nuclear physics. Project-type laboratory experiences are used. This course should be taken by college-oriented students with an interest in the sciences, engineering, or medical fields. The course prepares students to take the AP examination for college credit. *AP Physics II requires students to have successfully completed Physics 1 or STEM Physics and have instructor(s) approval.* 

Advanced Placement (AP) Chemistry 4420

This course is designed to be the equivalent of the general chemistry course usually taken during the first year of college. For many students, this course enables them to undertake, as freshmen, second year work in the chemistry sequence at their institution, or to register in courses in other fields where general chemistry is a prerequisite. This course is structured around the four big ideas articulated in the AP Chemistry curriculum framework provided by the College Board. A special emphasis will be placed on the six science practices, which capture important aspects of the work that scientists engage in, with learning objectives that combine content with inquiry and reasoning skills. Successful completion of Algebra II, Advanced Chemistry I, and Advanced Chemistry II, or instructor(s) approval are required for this course.

Advanced Placement (AP) Biology 4510

This course entails a rigorous, and fast-paced curriculum. It is designed to be the equivalent of a biology course usually taken during the first year of college. The AP

Biology class is designed to be taken only after the *successful completion* of Chemistry 1 and Biology II, with instructor(s) approval. a first course in high school Chemistry. AP Biology requires that students have successfully completed Biology 2 and have instructor(s) approval.

Marine Biology 4520

In this course, students will begin to explore the fundamental concepts of marine biology. Students will study living things in the world's ocean environments including plants, animals, and bacteria. Students will begin to investigate the behaviors of ocean organisms and their interactions with the ocean environment. Students will also begin to examine the physical, chemical, and biological aspects of the marine environment with some concentration on the ecology, biodiversity, sustainability, and conservation of marine resources. Finally, students will explore careers in marine biology.

Forensic Science 4530

In this course, students will begin to learn about the application of science to law including scientific principles and techniques behind the work of forensic scientists. Students will begin to understand the principles of crime scene management and how it is used in the investigation of crimes, explore how forensics work, and consider some techniques forensic scientists use. Students will examine a few case studies as well as address questions such as: Howe did forensics come about? What is the role of forensics in police work? Can we use forensic methods in non-criminal cases? Finally, students will explore careers in forensic science.

# BUSINESS DEPARTMENT



#### **BUSINESS**

Introduction to Computer Applications 6222

This course will introduce students to the keyboarding, Microsoft Office Suite; Microsoft Word, Microsoft Excel, Microsoft PowerPoint, & Microsoft Publisher. The concepts learned within this course will provide the necessary computer skills required in all disciplines.

Advanced Software Applications for Business and Industry 6322

Students will learn advanced Microsoft techniques, strategies and skills. Using the Excel, Word, Publisher, and PowerPoint programs, students will follow an exercise-oriented approach to solving practical problems and developing effective presentations.

Accounting I 6320

Any student who is entering 10<sup>th</sup>, 11<sup>th</sup>, and 12<sup>th</sup> grade may register for this class as an elective. Students will learn the accounting cycle and how to apply it to business situations. They will learn the importance of keeping accurate and up-to-date business records. In addition, students will develop a basic understanding of a business financial operation. Content includes recording daily transactions in a journal, transferring data to a ledger, preparation of financial statements for a business, and completion of a business simulation. Accounting I helps students decide whether they have an interest in and an aptitude for accounting as a profession.

Accounting II 6420

(Prerequisite course is Accounting I.)

This course includes advanced levels of Accounting. 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. This course is recommended for those students who have a strong interest in accounting as a profession. Advanced Business Applications Skills 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. 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 6322, and want to become more proficient in using all aspects of information technology skills.

Innovation & Society 6490

#### **Course Description:**

This course will explore the social context for innovation and creativity. The course is open to all 9<sup>th</sup> -12<sup>th</sup> grade students who have an interest in the creative process, imagination, invention and entrepreneurship. The course will emphasize creative works; Global Relationships, Networking, and Innovations that impact societal changes. This course will be project based with an emphasis on 21<sup>st</sup> century skills with real world applications.

# **PATHWAY TO SUCCESS**



### Pathway to Success

### 6<sup>th</sup> Grade Computer Discoveries

#### 7730

The first unit of the course focuses on the problem-solving process using both "Unplugged -Hands on" activities and online self-paced curriculum presented in a series of puzzles, challenges, and real-world scenarios. Students will be introduced to and identify how computers "think" through different types of processing. Students will develop and work with applications to identify the types of inputs and outputs used in a variety of applications and determine the type of processing used.

The second unit of the course focuses on students creating and sharing content on their own web pages. Students will be introduced to HTML and CSS as they develop the web pages. Students will practice and apply programming skills such as debugging, using resources, and teamwork.

Students will also develop Digital Literacy Skills covering intellectual property and copyright licensing, learning about their digital footprint.

7<sup>th</sup> Grade Computer Discoveries **7731** 

**The first unit of the course** focuses on coding experiences creating animations, interactive art, and games using the Game Lab application. The unit will begin with basic shapes, building to more sophisticated sprite-based games, culminating in a final individual program. The second unit of the course focuses on the broader implications of computing on society, as students complete design challenges to help them better understand the needs of others as they develop solutions to problems. Team projects will have students identify a need they care about; prototype then test solutions on real users.

8<sup>th</sup> Grade Computer Discoveries

#### 7732

The first unit focuses on the importance of data in solving problems and how computers can assist in this process. Students will explore different systems used, how data collection takes place, and how computers can help to automate the process. Students will learn how students how computers learn to make decisions and develop machine learning projects around real-world data. Student will develop a machine learning app to solve a personally relevant problem.

### Career Readiness 7890

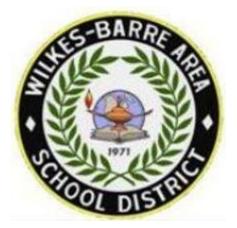
This course is offered to 11<sup>th</sup> – 12<sup>th</sup> grade students. It is designed to prepare students for success in college and career. Students will perform self-assessment and goal-setting activities, apply research and evaluation skills to execute job search, college

choice, and overall career development strategies. Course content will include resume writing, interview skills, finances, and application processes.

Transition Planning **7891** 

This course is designed within an outcome oriented process, that promotes movement from; (a) school to post-school activities, including postsecondary education, vocational training, integrated employment (including supported employment), continuing and adult education, adult services, independent living, or community participation; (b) is based on the student's needs, taking into account the student's preferences and interests; (c) includes instruction, related services, community experiences, the development of employment and other post-school objectives, and when appropriate, acquisition of daily living skills and functional vocational evaluation.

# **MUSIC DEPARTMENT**



#### **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.

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 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 9<sup>th</sup> to 12<sup>th</sup> grade levels. Consideration will be given to the student's knowledge, performance skills, and motivation for enrollment in the course.

#### **Chorus Performance**

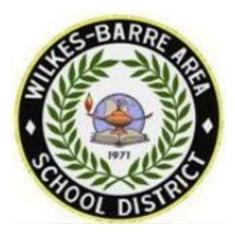
#### 8941-8945

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.

# PHYSICAL EDUCATION DEPARTMENT



### **PHYSICAL EDUCATION**

The K-12 physical education program is designed so that the student will be exposed to a variety of activities that enhance physical fitness and skill development. During the middle school years, students apply learned skills to team sports and begin to explore recreational and lifelong fitness activities. The student will learn the value of regular physical activity and its contribution to a healthy lifestyle.

7<sup>th</sup> Grade General Physical Education 9723

8<sup>th</sup> Grade General Physical Education 9823

9<sup>th</sup> Grade General Physical Education 9123

10<sup>th</sup> -12<sup>th</sup> Grade General Physical Education 9923

At the high school level, students master previously learned skills and apply advanced strategies to team sports. Students continue to learn how to achieve an improved level of physical fitness and the importance of maintaining an active lifestyle for a lifetime. They are introduced to and exposed to a wide variety of activities, competitive and noncompetitive, that provide enjoyment and promote lifelong health and wellness.

9<sup>th</sup>-12<sup>th</sup> Grade Adaptive Physical Education 9950

This course consists of an individualized program of exercises and activities for those who are recommended for the class by a doctor. Modified sports activities will be presented to improve the student's limiting condition. Emphasis will be placed on weight training, personal fitness development, rehabilitation protocol (when applicable) and individual sports participation. Course difficulty ranges from mild to moderate depending on the student's physical challenge. This course will have an independent schedule per student and will meet a minimum of 72 class period throughout a calendar year. This course must be recommended by a physician.

8<sup>th</sup> Grade Health Education / Nutrition / Wellness 9843

9<sup>th</sup> Grade Health Education / Nutrition / Wellness 9143 These courses provides students with a deeper understanding of age appropriate health issues and focuses on healthy living for all ages. These courses will equip them to better deal with the social and emotional adjustments of middle school. Topics covered include communication skills and healthy relationship building; risk assessment, alcohol, and other drug prevention (including binge drinking); stress and anger management; suicide and self-injury prevention; personal values development; and human sexuality & sexual health.

Intro to Wellness / PE Fitness Emphasis 9100

This course will utilize various movement forms to help students achieve an understanding of the six dimensions of wellness (social, emotional, intellectual, physical, environment, and occupational). In addition, an emphasis will be placed on the role of physical activity in preventing disease and disability. Students will be empowered to make choices, meet challenges and develop positive behaviors in fitness, wellness and movement activity for a lifetime. Emphasis is placed on students developing a personalized fitness program for a healthy lifestyle. Units of instruction include: introduction to kinesiology and physical education with personal fitness emphasis, fitness concepts and techniques, cardiorespiratory endurance training, nutrition, individual activities, and lifetime physical activity choices. This course meets for two days per academic school year and can be chosen as an elective in 9<sup>th</sup> grade.

Wellness 9200

This course is designed to give students the opportunity to learn through a comprehensive sequentially planned Kinesiology and Physical Education program aligned with the Pennsylvania Health and Physical Education Standards. In addition, an emphasis will be placed on the role of exercise science and athletic training principles. The Major areas of study of this course include: Kinesiology Physiology, Strength Training, Personal Fitness Planning, CPR/First Aid, Automatic External Defibrillator (AED) Training, and sports injury care. This course meets for three days per academic school year and can be chosen as an elective in 10<sup>th</sup> -12<sup>th</sup> grades.