

Greater Nanticoke Area High School



Program of Study 2011 - 2012

PRINCIPAL'S MESSAGE

This Curriculum Planning Guide has been designed to enable the student and parents to cooperatively examine the courses that will be offered during the next school term. It has been prepared by the high school administration with the cooperation of the faculty and guidance staff. Some of the courses are described in further detail on the GNA High School website under the Curriculum link.

The course selection process is one of the most critical areas you will encounter in your educational career. The decisions you make today may have impact on your future. For those reasons we encourage you to review this guide carefully and to make decisions only after all of your questions have been answered. You should pay particular attention to the areas entitled Graduation Requirements and Program of Studies to ensure that you are pursuing a course of study which will culminate in high school graduation.

We ask that you choose courses which will contribute to fulfillment of your career plans. If, after discussions with your parents, you have a problem selecting your courses, seek the advice of your teachers and counselors. The courses you select and how well you master them may well determine your future.

The approval of each student's schedule is the parent's responsibility and as such, parents are urged to contact the school at anytime to discuss the future plans and welfare of your child.

It is your education, what you put into it is what you will get out of it. Please take advantage of what Greater Nanticoke Area High School has to offer you as you prepare for your future.

Sincerely,

Stuart Tripler
Principal

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GENERAL REGISTRATION REQUIREMENTS

1. All students must register for five (5) major subjects plus Health and Physical Education. A major subject is one that meets daily for the entire school year and carries one (1) full credit towards graduation. All subjects listed in the Program of Studies are to be considered major subjects unless otherwise indicated.
2. Students will not be permitted to register for more than five (5) major subjects without permission from the guidance counselors, and/or the principal.
3. Business education students and vocational-technical students may select academic subjects. Prior to selecting an elective, be certain all mandated course requirements have been fulfilled.
4. Students in other curricula may select business courses as electives.
5. All students are reminded that if they select the vocational-technical curriculum, **THEY MUST REMAIN IN THAT SEQUENCE FOR THE ENTIRE YEAR.**
6. Occupational Co-op Programs are available only through registration in the Vocational Technical Curriculum through the Wilkes-Barre Vocational Technical School. Early dismissal is not granted at the home school for employment purposes.
7. Students who register in conformance with one of the programs listed will be given preference with respect to electives over those students who cross over into another program.
8. Students are encouraged to write comments which may be of value in scheduling at the bottom of the registration form or on the reverse side. All remarks will be kept confidential and wherever feasible will be granted.
9. A Learning Support Services System is available at the GNA Senior High School. Students utilizing these services must maintain an active Individual Educational Profile.
10. Dual Enrollment- Students may not enroll in courses at local colleges during school hours without first obtaining permission from the principal and satisfying all criteria established by the Greater Nanticoke Area School District.
11. Although schedule selections are closely monitored, the student is responsible for fulfilling all credit requirements towards graduation. Parents/students may contact Guidance at 735-7755 for verification.
12. **THERE WILL BE NO SCHEDULING CHANGES AFTER THE REGULAR SCHEDULING TIME PERIOD, EXCEPT AS EXPRESSLY PERMITTED BY THE PRINCIPAL.**

MISSION STATEMENT

To create an environment that will enable every student to meet the challenge of tomorrow through the required acquisition of the knowledge, skills, and self-esteem essential to adapt to our ever-changing society.

GRADUATION REQUIREMENTS

PENNSYLVANIA DEPARTMENT OF EDUCATION

Chapter 5 Minimum Requirements

Grades 9 through 12

English	4 credits
Mathematics	3 credits
Science	3 credits
Social Studies (U.S. History and World Cultures)	3 credits
Arts and Humanities	2 credits
Health and Physical Education Electives	1 credit
Electives	5 credits
Total Credits Required	21 credits

In addition, students must have at least scored at the proficient level of performance on the PSSA tests taken during their junior year.

HIGH SCHOOL GRADUATION PROJECT REQUIREMENTS

In compliance with Pennsylvania State Law, all students shall complete a project in one or more areas of concentrated study under the guidance and direction of the high school faculty. The purpose of this project which may include research, writing, or some other appropriate form of demonstration is to assure that the student is able to apply, analyze, synthesize, and evaluate information and communicate significant knowledge and understanding. Projects may be undertaken individually or by working collaboratively with one other peer member. **This project is required for graduation. Full details and the information packet can be found on the High School website.**

PROGRAM OF STUDIES

I. ACADEMIC CURRICULUM

This program is organized to allow students to prepare themselves for further formal education after they graduate from high school.

Grade 9

English I
American Cultures I
Earth, Space and Environment
Algebra I or Geometry
Foreign Language
Computer Literacy
Art
Music
Physical Education

Grade 10

English II
American Cultures II
Biology
Algebra II or Geometry
Foreign Language
Physical Education
Health

Grade 11

English III
World Cultures
Chemistry
Algebra II or Trig/Analytic Geometry
Elective
Physical Education
Health

Grade 12

English IV
Physics
Trigonometry/Analytic Geometry ,Calculus
or AP Calculus
Elective
Elective
Physical Education

II. BUSINESS EDUCATION CURRICULUM

Business Education is primarily for students who are interested in a future in areas of business management, banking, accounting, office technology, computer technology, and the secretarial fields.

Grade 9

English I
American Cultures I
General Science I
Concepts of Algebra I or Alg. I
Tech Exploration I or Basic Living Skills I
Computer Literacy
Art
Music
Physical Education

Grade 11

English III
World Cultures
Environmental Science
Concepts of Algebra II or Algebra II
Word Processing
Physical Education
Health

Grade 10

English II
American Cultures II
Concepts of Biology or Biology
Concepts of Geometry or Geometry
Keyboarding I
Physical Education
Health

Grade 12

English IV
Arts & Humanities
Office Procedures
Information Processing
Accounting
Physical Education

III. GENERAL CURRICULUM

This program provides for those students whose goal upon high school graduation is immediate employment or certain types of continuing education.

Grade 9

English I
American Cultures I
General Science I
Concepts of Algebra I or Alg. I
Tech Exploration I or Basic Living Skills I
Computer Literacy
Art
Music
Physical Education

Grade 11

English III
World Cultures
Environmental Science
Concepts of Algebra II or Algebra II
Elective
Physical Education
Health

Grade 10

English II
American Cultures II
Concepts of Biology or Biology
Concepts of Geometry or Geometry
Elective
Physical Education
Health

Grade 12

English IV
Elective
Elective
Elective
Elective
Physical Education

IV. VOCATIONAL- TECHNICAL CURRICULUM

This curriculum in cooperation with the Wilkes-Barre Vocational-Technical School will provide training for those who wish to prepare for a trade following graduation. Career choice in this program is a result of a continuous developmental process.

Grade 9

English I
American Cultures I
General Science I
Concepts of Algebra I or Alg. I
Tech Exploration I or Basic Living Skills I
Computer Literacy
Art
Music
Physical Education

Grade 11

English III
Environmental Science
Concepts of Algebra II or Algebra II
Concepts of Biology

Grade 10

English II
Concepts of Geometry or Geometry
Physical Education (2 periods a week)
Health (1 period per week)

Grade 12

English IV
American Cultures II
World Cultures
Health II (2 periods per week)
Physical Education (2 periods per week)

**Students in Grades 10, 11, 12 will be attending Vo-Tech

GRADE 8 CURRICULUM

As a prelude to the courses of study available on the senior high school level, students in this grade are presented with the basic courses needed to succeed educationally. They include:

Language Arts
Reading
American Civics
General Science
Algebra I * or
Basic Mathematics
Computer Laboratory
Basic Living Skills
Industrial Tech Math
Music
Physical Education Art

* Prerequisite Pre Algebra in Grade 7 (with average of 80 or above)

ARTS AND HUMANITIES ELECTIVES

	Credit Value
Basic/Advanced Living Skills	1.0 credit
Art	1.0 credit
Chorus	1.0 credit
Business Law	1.0 credit
Family Living	1.0 credit
Foreign Languages	1.0 credit
Government/Sociology	1.0 credit
Musical Productions/Stage Crafts	1.0 credit
Psychology	1.0 credit
Technology Exploration I, II, III	1.0 credit
Journalism	1.0 credit

Course Descriptions

ART

A diversified program is offered so that students may have the opportunity to explore the many facets of art for vocational or a vocational experiences. Qualified students preparing for a career in art are given the opportunity to develop their talents and gain new values and pleasures from the varied world of art.

Art (5830)

Grade 8

This is a basic course to provide students with an introduction to art education. Students share in a variety of experiences involving paper crafts, watercolor painting and design. Clay sculptures and three dimensional art are also part of the instructional program. (1 period /week)

Art (5130)

Grade 9

Students will learn composition through the elements and principles of design. They will explore a variety of art activities and media. They will gain experience and improve skills by creating artworks in design, drawing, painting, and collage. (1 period/week - 1 year - .25 credit)

Art I (5230)

Grades 10, 11, 12

Students will develop their artistic skills by producing artworks using a variety of two dimensional and three dimensional media. They will create projects that include drawing, painting, design, printmaking, collage, and sculptures. Students will be introduced to art appreciation and history.

Art II (5330)**Grades 11, 12**

Prerequisite: Art I

Areas of study include drawing, painting, printmaking, sculpture, calligraphy, and art appreciation. This course will include a more concentrated study in these areas than the previous course.

Art III (5230)**Grade 12**

Prerequisite: Art I and Art II Independent research. Students can specialize in areas of painting, drawing, printmaking, and sculpture. Art appreciation is also included in Art III.

Fundamentals of Photography (5530) Grades 11, 12

Basic Photography is an entry-level course designed for the student to become familiar with black and white photography fundamentals. The student will gain experience with cameras, lenses, enlarging equipment, and developing of film and photography through a hands-on application which enables the student to apply and enjoy the technical aspects of photography as it applies to Science, Chemistry, Communication, Art and Math coupling education with the student's artistic vision. Applying techniques and tools is stressed to enhance creativity and practical day application. Class work is related to contemporary and historical accounts of photography.

BUSINESS EDUCATION

Business Education provides specialized training in 21st century business skills that are widely used in today's business environment. The Business education courses that are offered prepare students for entrance into the business world by developing skills which are needed for entry-level employment. It also provides a foundation for further education in such areas as business management, banking & accounting.

Accounting (6320)**Grade 11, 12**

Accounting introduces the basic accounting principles used in a sole proprietorship and a partnership. Emphasis is placed on keeping records for a service and merchandising business. Students will explore the accounting cycle, ledger accounts, special journals, and prepare various financial statements used in the accounting system. Skills learned will provide a foundation for future college level accounting courses.

Accounting II (6330)**Grade 12**

Prerequisite: Accounting I

This class is designed as a continuation of Accounting I. Students will expand on theory and work with accounting cycles.

Business Law (6344)**Grades 11, 12**

Students will explore the basic fundamentals of business law and how it applies to business and personal life situations. Emphasis will be placed on personal law, criminal

law, and tort law. Topics discussed will include: ethics, contracts, bankruptcy, civil law, criminal law, laws that impact minors, laws for families, laws for consumers, and probate law.

Computer Applications (6422)

Grades 11, 12

Students will learn the basic fundamentals of Microsoft Office Suite. Emphasis will be placed on Microsoft Word, Excel, PowerPoint, and Access. Projects for this program will include: various word documents, spreadsheets, PowerPoint, and Database Programs.

Office Etiquette (6423)

Grades 11, 12

Students will learn the skills used in today's office environment. Emphasis will be placed on filing, ten-key calculator skills, communication skills, ethics, time management skills, and soft skills. The skills learned throughout this program will prepare the students for transition from a school to work environment.

Keyboarding/ Word Processing (6322)

Grades 10, 11, 12

This course reviews the fundamentals of keyboarding and introduces the student to business style letters, memos, outlines, schedule of events, news releases and MLA style research papers.

ENGLISH

The general aim of the English curriculum is to provide intellectual training in reading, thinking, speaking, writing for able, and rational expression. It also aims to assist the student in becoming a responsive and responsible member of our democratic society. The program presents a sequence in language, literature, composition, grammar, and vocabulary.

8th Grade Reading (0821)

This course will focus on using a whole language approach while enabling students to apply the Reading and Writing processes in their academic careers and to cultivate them into becoming life-long readers. A variety of genres will include fiction, non-fiction, poetry, novels, and short stories. Reading will focus on critical thinking, learning processes, comprehension and word recognition strategies, writing and speaking skills, note and test taking skills, and motivational strategies. Comprehension and reading skills will encompass the following: vocabulary and word recognition, context clues, recognizing types of passages, author's purpose, main idea and supporting details, understanding inferences, analyzing viewpoints, summarizing plot, interpreting and analyzing fiction and non-fiction, and learning basic elements of plot, characters, setting and theme.

8th grade Reading students will read and complete the following: Additional novels and textbooks will be covered if possible.

Novels

Swallowing Stones

Freak the Mighty

Speak

The Outsiders

Driver's Ed

Enrique's Journey

The Contender

Touching Spirit Bear

Textbook Units

Lean On Me

Dark and Stormy Night

Voices Through the Ages

At Odds

P SSA Coach Book Units

Comprehension and Reading Skills

Interpretation and Analysis of Fiction

and Non-fiction

Students are required to read **one** of the following novels before entering the 8th grade.

There will be an exam given.

The Pigman-Paul Zindel

Jacob Have I Loved-Katherine Paterson

Voyage of the Frog-Gary Paulsen

American Literature I and Composition (0820)

Grade 8

This course is a chronological look at American writings from the Puritan period up to Realism. Students will examine how American writers have represented and interpreted the American experience through their works. Students will gauge the impact of internal and external conflicts, cultural identity, heritage, traditions and ideals. Students will evaluate what it means to be American by reflecting on central tenets of Puritanism, the ethical views of Revolutionaries, Regionalism and Rationalism. Students will learn how to use direct quotations, parenthetically document, and analyze and evaluate good introductions and conclusions in writing. Students will focus on the persuasive and informational domains of writing and will develop oral communication skills, work collaboratively, and use information technology to support their learning. Students will have assignments such as prose analyses, poetry analyses, expository essays, and creative pieces. Students will be reading novels independently throughout the course of the year.

This course provides a foundation of understanding and appreciation for various literary genres. Students will use a variety of reading strategies to increase comprehension, establish a purpose for reading, and demonstrate proficient reading skills. Students will strive to acquire a working vocabulary throughout the course while becoming critical thinkers, fluent speakers, and competent writers. Students will learn what a thesis statement is and how to support it in their writing. They will practice creating thesis statements and well-written paragraphs. Skills in grammar and conventions will be honed daily through various writing and analyzing situations.

Students will read Shakespeare's Romeo and Juliet as part of the coursework.

Students are required to read a novel over the summer before entering 8th grade. There may be work accompanying the required reading. The novel will be: The Scarlet Letter by Nathaniel Hawthorne

English I – American Literature II and Composition (0130) Grade 9

This course is a chronological look at American writings from Realism to present day. Students will examine how American writers have represented and interpreted the American experience through their works. Students will gauge the impact of internal and external conflicts, cultural identity, heritage, traditions and ideals. Students will evaluate what it means to be American by reflecting on central tenets of Realism, the New Century, writing between the World Wars. Local Color of the Twentieth Century and Contemporary American writings. Students will learn how to use direct quotations, parenthetically document, and analyze and evaluate good introductions and conclusions in writing. Students will continue to cultivate their vocabulary through applying new words to their writings. Skills in grammar and conventions will be honed daily through various writing and analyzing situations. Coursework centers on identification and analysis of essential themes, elements of characters, and other literary elements and devices. Genres include novels, short stories, poetry, drama, and nonfiction. Students apply reading strategies such as inference, summarizing, and questioning, to increase comprehension of texts, establish a purpose for reading, and demonstrate proficient reading skills. Students will have assignments such as prose analyses, poetry analyses, expository essays, and creative pieces. Students will be reading novels independently throughout the course of the year. There will be one novel per grading period in addition to coursework.

Students will also further their reading of Shakespeare through the reading of *The Taming of the Shrew*.

Students are required to read a novel over the summer before entering 9th grade. There may be work accompanying the required reading. The novel will be: *The Great Gatsby* by F. Scott Fitzgerald

English 2 World Literature and Composition (0230) Grade 10

This course entails a continued exploration of short stories, poetry, the novel, and drama with the literary focus being that of World Literature from China, South America, Africa, the Middle East, the Orient, Australian, Europe, the Caribbean, and other countries that do not include America or England. Students engage in reading and responding to a variety of forms of literature to further their understanding and appreciation of literature. This course challenges students to evaluate how literature sheds light on the workings of our society, on the rights of the individual versus those of the group, and on the degree to which individuals fulfill their dreams for success. Students will learn how to take notes for the research paper, how to transform those notes into a rough draft, and the difference between paraphrasing and summarizing, while reviewing the topic outline, source cards, targeting information, choosing relevant materials, the thesis statement, transitions and components of a well-written work. Skills in grammar and conventions will be honed daily through various writing and analyzing situations. Students will continue to build

their vocabulary through applying new vocabulary to their writing. There will be one novel per grading period in addition to coursework.

Students will also further their reading of Shakespeare through the reading of Julius Caesar.

Students are required to read a novel over the summer before entering 10th grade. There may be work accompanying the required reading. The novel will be: **Dew Breaker** by Edwidge Danticat

English 3 British Literature I and Composition (0330) Grade 11

This course is a cursory examination of the history and literature of England from the sixth century to the twentieth century. Students will read, discuss, and respond in writing to the works of English writers in the Anglo-Saxon, Medieval, Renaissance, and Classical literary periods. Students will learn how to revise a research paper and create a works cited page appropriate to the sources used in their writing. Students will continue to cultivate their vocabulary through applying new words to their writings. Skills in grammar and conventions will be honed daily through various writing and analyzing situations. Students will focus on the persuasive and informational domains of writing and will develop oral communication skills, work collaboratively and use information technology as a tool to access information, analyze, and solve problems, and communicate ideas. Students will trace and identify some language changes that have occurred while understanding major social, religious, and political movements of the time period. They will identify major writers of the period and recognize their connections to the writing trends.

Students will also further their reading of Shakespeare through the reading of Hamlet.

Students are required to read a novel over the summer before entering 11th grade. There may be work accompanying the required reading. The novel will be: The Hobbit by J.R.R Tolkien

English 4 British Literature II and Composition (0430) Grade 12

This course is a cursory examination of the history and literature of England from Romanticism to Contemporary British Literature. Students will read, discuss, and respond in writing to the works of English writers in the Romantic, Victorian, and Modern literary periods. Students will learn how to revise a research paper and create a works cited page appropriate to the sources used in their writing. Students will continue to cultivate their vocabulary through applying new words to their writings. Skills in grammar and conventions will be honed daily through various writing and analyzing situations. Students will focus on the persuasive and informational domains of writing and will develop oral communication skills, work collaboratively and use information technology as a tool to access information, analyze, and solve problems, and communicate ideas. Students will trace and identify some language changes that have occurred while understanding major social, religious, and political movements of the time

Part of the requirement of this course will be writing for and production of the school newspaper and the yearbook.

This class is limited to 15 students and 11th and 12th grade students will be given priority in the scheduling of this class.

FAMILY LIVING SKILLS

The Family Living Skills curriculum is concerned with the fundamental values and problems of the home and family living. The aim is to help the students live a useful and satisfying life in their present as well as their future homes and communities.

Basic Living Skills (7820)

Grade 8

The students will experience a variety of areas of Home Economics including hand sewing, machine sewing, and cooking. They are introduced to various crafts including crewel embroidery, plastic canvas, latch hook, and yarn weaving. Students are also instructed in proper babysitting methods and good personal grooming. (1 period per week)

Basic Living Skills I (7120)

Grade 9

This course gives the student, both girls and boys, the opportunity to improve their family life by developing skills in the areas provided. These areas include personal adjustment, family relations, housing, and money management. It also includes clothing construction, various crafts, nutrition and its role in physical appearance, and creative food preparation and selection.

Advanced Living Skills II, III, IV

Grades 10, 11, 12

This is an advanced comprehensive study of all the components concerned with the changing life cycle of the student in the next few years. He/she will be able to survive "bachelor" living with the skills learned. It includes basic as well as gourmet food preparation, budgeting, shopping, and meal planning. Ethnic foods are discussed. Clothing construction, crafts and interior design and decoration are among the areas covered. (**II=7220, III=7330, IV=7430**)

Family Living (7225)

Grades 11, 12

Cooking is an art which needs to be explored and cultivated to gain its true usefulness. This class gives you the chance to experience the art of cooking. The meanings found from this art form will be used all of your life. The student will study eating habits, nutritional needs, basic kitchen skills, safety and food preparation. You will plan, prepare and serve attractive meals and snacks. International foods will be discussed and some of these foods will be prepared in class.

The students will examine their understandings as they compare values to society today. We will discuss marriage, engagements, and various adjustments to the life cycle. The study of pregnancy, prenatal care, birth and physical development of children will also be

covered. The objective is to expose the students to different life choices to show them the consequences of these choices and to gain a better understanding of how to deal with them.

LANGUAGES

Never before in the history of the world has the need been so great for communication among people of many languages and cultures. Knowledge of a foreign language is extremely useful in today's global society. Employees who speak more than one language are sought after in many fields, including the military, human services, business, educational, medical fields and the general workforce. Furthermore, gaining insight into another culture can make one more tolerant and less critical of those who have different ways of life. This not only improves the United States' image abroad but also helps one to appreciate cultural differences in our own country and community. Recognizing the above needs, the Greater Nanticoke Area High School offers four levels of study in both French and Spanish that emphasize the National Foreign Language Standards of communication, cultures, connections, comparisons, and communities.

French I/Spanish I

Grades 8 through 12

Level I is an introductory course that takes a communicative approach to learning the target language. Practical conversation in the target language is emphasized along with conjugations of regular and irregular verbs in the present tense and an introduction to the past tense. The use of tapes, films, workbooks, and text are combined to stimulate student interest, to enhance the acquisition of pronunciation, vocabulary and grammar skills and to expose students to the target culture. (**French I= 1110, Spanish I= 1113**)

French II/Spanish II

Grades 9 through 12

Prerequisite: French I/Spanish I

Level II is an extension of Level I skills where the four language skills (listening, speaking, reading, and writing) are still stressed along with cultural themes. Grammatical and structural concepts become more complex, and these explanations remain in English in order to facilitate comprehension of those concepts.

(**French II =1210, Spanish II =1213**)

French III/Spanish III

Grades 10 through 12

Prerequisite: French II/Spanish II with a minimum average of 80%

The aim of Level III is to further develop the audio-lingual and grammatical skills acquired in Levels I and II. Greater emphasis is placed on reading and composition as well as refining pronunciation. Student knowledge of the geography, history, and culture of Francophone and Spanish-speaking countries is further developed.

(**French III =1310, Spanish III =1313**)

French IV/Spanish IV

Grades 11 and 12

Prerequisite: French III/Spanish III with a minimum average of 80%

Level IV is designed to further the appreciation of the target languages' culture and history as well as to foster speaking and writing skills. This level incorporates reading and response to literary works written in the target language.

(French IV= 1410, Spanish IV= 1413)

LIBRARY

The Library is designed to make students independent users of the library by making all print and electronic resources available to them. The purpose of the Library is to meet their individual, as well as classroom research interests and needs.

Students have access to a computer lab with 20 stations that feature the internet for educational research. Computers allow students to perform book title searches.

In addition, Power Library permits our students and staff to access an online world of electronic resources and to share resources with 2,875 libraries statewide, as well as maintain a cooperative agreement with Access PA. The total database has 11.7 million titles and 50 million items. The library also maintains 45 magazine titles. The magazines are for the reading pleasures of the staff and students.

MATHEMATICS

Mathematics is truly an international language and the school provides the student the means of communicating with the simplest form of mathematics as well as the tools that are required to solve the complex problems of our modern technological age.

Basic Mathematics (3822)

Grade 8

The learning of mathematics is a never ending process. This course in basic mathematics allows students the opportunity to review basic number operations, develop problem solving strategies, experience an introduction to algebraic expressions, and explore geometric relationships. Emphasis is placed on problem solving, teamwork projects, and various performance assessments.

Concepts of Algebra I (3121)

Grades 9 through 12

This course is designed to focus on the eligible content as defined by the standards of the Algebra 1 Keystone Exam. The following topics will be emphasized: numbers, number systems, and number relationships; computation, measurement, and estimation; mathematical reasoning and connections; slope and linear relationships; equations and inequalities in one and two variables; algebraic properties and processes; functions and multiple representations; linear systems of equations and inequalities; and analysis of one and two variable data. Various strategies for problem solving will be emphasized.

(Formerly called Applied Alg. I).

Concepts of Geometry (3221)

Grades 10-12

Prerequisite: App. Alg. I or Alg. I

This course is designed to focus on the eligible content as defined by the eligible content of the Geometry Keystone Exam. The following topics will be emphasized: geometric

representations, 2- and 3-dimensional figures, reasoning and proof, geometric relations of congruence and similarity, analytic geometry, trigonometric ratios, and geometric probability. Various strategies for problem solving will be highlighted. (Formerly called Applied Geometry).

Concepts of Algebra II (3321)

Grades 10 through 12

Prerequisite: Geometry

This course is designed to focus on the eligible content as defined by the standards of the Algebra 2 Keystone Exam. The following topics will be emphasized: algebraic properties, processes and representations; exponential functions and equations; quadratic functions and equations; polynomial functions and equations; and compound probabilities and their addition and multiplication rules. Various strategies for problem solving will be highlighted. (Formerly called Applied Algebra II)

Algebra I (3123)

Grades 8 through 12

This course is more academically rigorous in design and will focus on the eligible content as defined by the standards of the Algebra 1 Keystone Exam. The following topics will be emphasized: numbers, number systems and number relationships; computation, measurement, and estimation; mathematical reasoning and connections; slope and linear relationships; equations and inequalities in one and two variables; algebraic properties and processes; functions and multiple representations; linear systems of equations and inequalities; and analysis of one and two variable data. Various strategies for problem solving will be emphasized.

Algebra II (3223)

Grades 10 through 12

Prerequisite: Algebra I

This course is more academically rigorous in design and will focus on the eligible content as defined by the standards of the Algebra 2 Keystone Exam. The following topics will be emphasized: algebraic properties, processes and representations; exponential functions and equations; quadratic functions and equations; polynomial functions and equations; and compound probabilities and their addition and multiplication rules. Various strategies for problem solving will be highlighted.

Calculus - Advanced Placement (3414)

Grades 11, 12

Prerequisite: Trigonometry/Analytic Geometry

This AP Calculus AB course follows the syllabus approved by the College Board. Topics will include properties of functions, limits, differential calculus, and integral calculus. Use of symbolic differentiation and integration utilities is also included, and applications from a variety of real-world topics will be investigated. Students are expected to demonstrate their understanding through the rule of four: analytic/algebraic, numerical, graphical, and verbal methods of representing problems. Graphing calculators will be utilized and are required for this course. It is expected that students will take the AP exam and seek college credit and/or placement from institutions of higher learning.

Students will have the opportunity to take the AP College Exam at the end of this course. Students are responsible for all fees of this testing.

Computer Lab (3830)**Grade 8**

Students in the 8th grade will experience the following: diagnostic testing and learning activities in reading, math, and science; student assignments and project requirements using the Writing Processor and Encarta Encyclopedia Programs; basic introduction to the Internet and home personal computer technology.

(1 period /week)

Computer Literacy (3130)**Grade 9**

This course offers 9th grade students the fundamentals necessary to coexist with computers in our high-tech age. Focus is placed on Microsoft Office software including Word, Excel, Power Point, Access, and Publisher. Students will also develop typing skills and research techniques using the Internet. This will be accomplished through various projects that students will complete throughout the year. Furthermore, students develop their mathematical skills for the PSSA with online lessons through Plato Learning. (1 period/week - 1 year - .25 credit)

Computer Mathematics I (3413)**Grades 10, 11, 12**

Prerequisite: Algebra II or presently taking Algebra II

This course is structured to instruct the student in algorithms, which are essential in programming in any language. The first phase is designed to provide the essential information required for the student to learn, as quickly as possible, how to write complete programs in JAVA. The concepts of branching, looping, and output are introduced through program writing. These ideas are coupled with more advanced topics of sub-routines, library functions, graphics, and strings. The above objectives will be introduced and practiced through a hands-on approach.

Computer Math II (3415)**Grade 11,12**

Prerequisite: Computer Math I

In the second course of Computer Math, students will extend their skills in developing algorithms to write more complex programs. Focus will be placed on object-oriented programming with a more in-depth study of data structures, design, and abstraction. Students will code fluently using more advanced programming languages such as Java as well as read and understand large programs consisting of several classes and interacting objects.

Geometry (3331)**Grades 9 through 12**

Prerequisite: Algebra I

This course is more academically rigorous in design and will focus on the eligible content as defined by the standards of the Geometry Keystone Exam. The following topics will be emphasized: geometric representations, 2- and 3-dimensional figures, reasoning and proof, geometric relations of congruence and similarity, analytic geometry, trigonometric ratios, and geometric probability. Various strategies for problem solving will be highlighted.

Probability and Statistics (3412)

Grades 11, 12

Prerequisite: Algebra II

This course is designed to meet one of the basic needs of the emerging problems of mathematics, namely the introduction of probability and statistical inference. It is self-contained and requires only a knowledge of secondary school algebra. The content of this course involves in a logical order, the study of elementary theory and permutations and combinations, and the concepts of sample spaces and repeated trials in probability. This is followed by an application of all the theory of hypothesis testing since this is considered the best way to introduce students to the study of statistical inference. In light of modern technology, the problems involve much more than usual ones referring to tossing coins, throwing dice and so on; they contain realistic situations from science, psychology, and opinion polls. A course in probability and statistics will provide an interesting, challenging, and rewarding study for students.

Trigonometry/Analytic Geometry (3313)

Grades 11, 12

Prerequisite: Algebra II and Geometry

This course is designed to prepare students with the background needed to succeed in Calculus. The formal study of elementary functions is extended in this course. Students apply technology, modeling, and problem-solving skills to the study of exponential, logarithmic, trigonometric, and circular functions. Applications and problem simulations are explored in multiple representations—algebraic, graphic, and numeric. Graphing calculators will be utilized and are required for this course.

MUSIC

Music is one of the most basic and therapeutic necessities of man kind. From birth and throughout one's life, the forces of music influence man's state of mind and his future. To foster a better understanding of this amazing force, music education encourages creativity, teaches effective communication, provides basic tools for a critical assessment of the world around us and encompasses the abiding values of self-discipline and commitment.

Chorus I (8132)

The Greater Nanticoke Area High School Chorus is composed of students in grades 8-12. This specific course is offered one day per week to freshmen who wish to participate in chorus. Students are taught basic vocal warm-ups, and the proper use of the singing and speaking voice is demonstrated and reinforced. In addition, basic note reading and rhythmic skills are taught in order to expand the students' musical knowledge.

Concert music that is presented during Monday evening rehearsals is reviewed during this class. Additional time after school and in the evening is required to rehearse for the various concerts and tours held throughout the year.

Chorus students are also REQUIRED to participate in the annual winter and spring concerts, the annual tours, competitions, and civic performances.

Chorus II, III, IV (II =8232, III =8332, IV =8432)

The Greater Nanticoke Area High School Chorus is composed of students in grades 8-12. This specific course is offered five days per week to sophomores, juniors, and seniors who wish to participate in chorus. Students are taught basic vocal warm-ups, and the proper use of the singing and speaking voice is demonstrated and reinforced. In addition, basic note reading and rhythmic skills are taught in order to expand the students' musical knowledge.

Concert music that is presented during Monday evening rehearsals is reviewed during this class. Additional time after school and in the evening is required to rehearse for the various concerts and tours held throughout the year.

Chorus students are also REQUIRED to participate in the annual winter and spring concerts, the annual tours, competitions, and civic performances.

Appreciation of Music (8535)

Grades 10, 11, 12

This course offering introduces students to the collaborative efforts that make the musical theater a whole work of art. Attention is paid to all aspects of theater production and history, along with an overview of all those artists and craftsmen whose contributions culminate in the seamless nature of a successful performance. The course content will concentrate on the roles of the playwright, director, producer, designer, musical composer, technician, critic, and the actor.

This class will demand movement and a great deal of interaction between students and teacher. Class size will be limited. Repetition of this class requires office approval.

Music (8831)

Grade 8

The course is designed to cover music history, music theory and music of different cultures in order to get a better understanding of the music of today. An introduction to the keyboard and the various instruments of different cultures are used as reinforcement of the basic concepts. Students will familiarize themselves with the characteristics of a cultural period through listening and singing.
(1 period per week)

Music (8131)

Grade 9

This interdisciplinary course is designed to introduce students to basic music theory concepts, basic historical figures in Western music, and basic performance skills. The course is taught in a cooperative learning setting.

Throughout the course of the year, students will learn how to read notes and count rhythms. These skills will be used to play instruments that students create during class. Each class will be featured in a performance for their peers.

In addition, students will create and record a music video, create musical games and puzzles, and learn about great musicians of the past and present. Musical examples from various eras in music history will be played during class.

(1 period/week :1 year -.25 credit)

Music Theory (8536)**Grades 10, 11, 12**

This course is designed for students who wish to acquire in-depth knowledge of music theory and history. Topics will include basic music terms, major and minor scales, intervals, chords, transposition, orchestration, four-part writing, and composition. Sight singing, rhythmic and melodic dictation, analysis, and keyboard harmony will also be stressed. Students who elect to take this class are eligible to take the AP Music Theory exam at the end of the school year. Repetition of this class requires office approval.

Students will have the opportunity to take the AP Collage Board Test and the end of this course. Students are responsible for all fees of this teasing.

PHYSICAL EDUCATION & HEALTH

A PASSING GRADE IN BOTH PHYSICAL EDUCATION AND HEALTH AT ALL GRADE LEVELS AS DESCRIBED IN THE PROGRAM OF STUDIES IS MANDATED AS A REQUIREMENT FOR GRADUATION.

An AIDS Awareness Program is incorporated into the curriculum in Grade 10. A comprehensive unit on AIDS education has also become an integral part of Health III and IV. This unit includes awareness, prevention, facts, behavioral choices, testing procedures, medical treatment, and the interaction of the AIDS victim with society.

Health II (9241)**Grade 10**

This course deals with basic individual care including physical fitness and hygiene. There is a major emphasis on contemporary abuses of drugs, especially alcohol and tobacco. The student also will have the opportunity to examine the prevalence of cardiovascular diseases and the availability of different types of health care in America today.
(1 period/week - 1 year - .25 credit)

Health III and Health IV (9341)**Grade 11**

The student becomes involved in an awareness program regarding nutrition and diet. An understanding of chronic disorders as well as communicable diseases is offered which includes methods to improve one's health through good health practices.

There is emphasis placed on emotional needs, promotion of good mental health, dealing with stress, and coping with problems which are associated with mental illness. The life cycle awareness from conception through the various stages of life deals with attitudes and adjustments that one must make in decision making. The role of the community in health and the opportunity of health careers are made known to the student with the realization of his or her importance in an adult society.

(2 periods/week - 1 year - .5 credit)

Physical Education (9823)**Grade 8**

This is a basic course which includes a structured program in developing motor skills and mobility. It allows students to develop at their own pace and become cognizant of their own capabilities. The use of rhythmic activities and modified games enhances each individual student's personal awareness of physical growth. (1 period per week)

Physical Education**Grades 9,10,11,12**

This course is designed to present to the student a variety of physical activities which reflect individual growth, group and/or team oriented activities with a concentration on lifetime-leisure sports or games.

Fundamentals and skills are stressed in the first two grade levels, whereas recreational pleasures are emphasized in the upper grades. Specific objectives include the creation of interest in personal progress, the improvement of physical skills and coordination, wholesome attitudes of health, hygiene and fitness, development of organic vigor and improvement of mental keenness and judgment.

(Grades 9, 10, 11: 1 period/week - .25 credit) (Grade 12: 2 periods/week - .5 credit)

(9th =9121, 10th =9221, 11th = 9321, 12th =9421)

SCIENCE

Young people are curious by nature and are eager to learn of the physical and biological principles which govern the world in which they live. The science courses are designed to provide the student with an orderly understanding of the nature of materials and forces that make up his environment. Chemistry I, II, Academic Biology and Physics have lab exercises incorporated in the regular classroom instructional time.

General Science (4820)**Grade 8**

This course presents a general background in science to prepare students for courses that will be taken in grades 9 through 12. Students are shown how science principles are used to solve everyday problems. The variety of topics presented include biology (inheritance, adaptation and evolution, ecology), earth science (earth's structure and the forces that change it, water, weather and climate, the solar system), chemistry (physical and chemical properties of matter, elements and the periodic table, chemical reactions), and physics (force and motion, energy forms and transfer). Students will perform lab activities to reinforce scientific concepts presented and use math to solve physics problems.

Earth, Space, and the Environment (4130)**Grade 9**

Earth and Space Science, the study of the Earth and its place in the universe, is a course offered to college preparatory students as part of their basic education. It is the final phase of a three-step program preempted by life and physical science in the 7th and 8th grades. The course highlights the major branches of the field: astronomy, oceanography, meteorology, and geology.

General Science I (4120)**Grade 9**

This course emphasizes scientific inquiry and inter-relationships between different areas of science. Major attention is given to every day practical applications that are meaningful and interesting to students.

This course provides a variety of scientific topics that stimulate interest and motivate learning, thereby avoiding the boredom that often sets in when students are forced to concentrate their studies in one area for a whole year.

This approach teaches students the unity of science in terms of scientific methods and science principles that pervade all science fields. This learning is important for all students as future citizens. Topics covered include astronomy, chemistry, energy, ecology, human biology, and nutrition.

Advanced Biology I (4227)**Grade 10**

This course is designed to cover the topics presented in biology at a faster pace and in more detail and is designed for students preparing for college. All material will be covered that is needed for a student to continue a rigorous science curriculum. The intensity, speed, assimilation of material, material via labs, and outside assignments makes this course challenging. The lecture portion of the class will cover topics such as ecology, cell biology, photosynthesis and respiration, genetics, evolution and diversity of life. Laboratories are designed to stimulate student interest and encourage problem solving and discovery. This course can be used as a prerequisite for Advanced Biology and AP Biology.

Concepts of Biology (4228)**Grade 10**

The main topics of biology are explored using a hands-on practical approach. Applications to life and experimentation are stressed. Topics covered include ecology, cell biology, photosynthesis and respiration, genetics, evolution, and diversity of living things. This course cannot be used as a prerequisite for Advanced Biology or AP Biology.

Chemistry I (4324)**Grades 10, 11, 12**

Prerequisite: Algebra I

Chemistry, which is often considered the “Central Science,” is crucial to obtain a true understanding of any science. Chemistry introduces the student to the mathematical analysis and verification of the concepts, theories, and laws of chemistry, works to stimulate an interest in chemical experimentation, and to refine and develop proper laboratory procedure and etiquette. Through lectures, demonstrations, and experimentation, students will learn about the qualitative and quantitative properties of matter, classical and modern atomic theories, periodicity of the elements, aspects of chemical bonding, chemical reactions, stoichiometry and dimensional analysis. A scientific calculator is required for this course.

Chemistry II (4424)**Grade 11, 12**

This course in Chemistry emphasizes a comprehensive study of the theories, laws, and principles of Chemistry with additional mathematical rigor. Through the use of laboratory experimentation and investigations, demonstrations, and lectures, students will expand upon the topics discussed in Chemistry I and explore major topics including thermochemistry, reaction spontaneity, chemical equilibrium, and chemical kinetics. Students intending to pursue a career in science, medicine, or engineering are strongly encouraged to take this course. A scientific calculator is required for this course.

Advanced Biology II (4428)**Grades 11, 12**

Prerequisite: Academic Biology and Chemistry I

This course will familiarize the student with the more advanced technological and scientific methods of studying biology. The plant kingdom will be covered in the first quarter and the remainder of the year is designed to elaborate on concepts learned during the human component of Biology. An overview of the 11 major organ systems will give students a fundamental basis for specific structure and function of the organs involved with each organ system. Related studies in biochemistry, cell biology, histology, biotechnology, bioethics, and pathology will also be addressed. This course is recommended for serious students that may plan to continue their education in any of the bio-medical areas or careers.

Biology - Advanced Placement (4429)**Grade 12**

Prerequisite: College Prep Biology and Chem. I (C.P. Biology Average of 85 or above)
Class size is limited.

The AP Biology course covers three general areas: Molecules and Cells, Heredity and Evolution and Organisms and Populations. This course requires extensive reading and note taking to cover the range of topics required for the AP exam. The laboratory experience will provide the opportunity for students to learn a variety of skills such as detailed observations, accurate recording, experimental design and implementations, data interpretations, statistical analysis and formal lab reports. It is expected that students will take the AP exam and seek college credit and/or placement from institutions of higher learning.

Students will have the opportunity to take the AP Collage Board Test and the end of this course. Students are responsible for all fees of this testing.

Physics (4423)**Grade 11, 12**

Prerequisite: Algebra I and II and Chemistry I

The basic purpose of the course is to incorporate the subject matter with the most useful and recent concepts of matter with a simplicity that will enable every student to achieve maximum comprehension. Physics is presented in such a manner that the student becomes a participant in the search for an understanding of the physical universe.

Problem solving, laboratory techniques, creativity are developed through individual and

group laboratory experiences in the fields of matter and energy, force, and motion, heat and sound, light, structure of matter, the atom, and magnetism and electricity.

Concepts of Environmental Science (4329) Grades 11, 12

Environmental Science is the application of knowledge from all areas of science to the management of the environment.

It is a required course for all general, business and vocational students. If you had Earth and Space Science and are presently taking Chemistry, you may not choose this course, but you must sign up for the Environmental Science.

The course utilizes General Science as a basis for understanding how man can live in harmony with nature. It highlights (1) an understanding of the earth; (2) the impact of environmental degradation; (3) ecosystems and how they function; (4) identification of environmental problems and solutions through science. Student participation in field trips is required and represents a major part of this course.

Environmental Science (4328) Grades 11, 12

Environmental Science integrates information from the Earth, Physical and Biological Sciences to provide the necessary information to understand patterns and processes operating in ecosystems. Students will study the basic structure and needs of aquatic and terrestrial habitats; species ability to respond to natural and human influences; sustainability and conservation of natural resources; pollution; and wildlife conservation.

SOCIAL STUDIES

In the past half century, the world has moved into an era of progress and upheaval that has no parallel throughout the history of mankind. Without a basic understanding of the history of those events, the events of today and the current world situation will not be meaningful. The purpose of social studies is to provide an understanding and an appreciation of the present in terms of the past and to enable the student to understand our government, the problems of our society, and to instill in him/her the desire to improve our society consistent with democratic ideals and values. Courses in American cultures, world cultures, government, problems of democracy, and psychology are designed to accomplish this goal.

American Civics (2820) Grade 8

American Civics focuses on several important civics themes: Citizenship values –instills the qualities of good citizenship and encourages students to develop attitudes that foster good citizenship; American government - provides a thorough understanding of the structure and purpose of the federal, state, and local governments; American economic system - teaches students about free enterprise and how to compete in the economic world; Challenges in today's world - familiarizes students with contemporary issues that face the United States and challenges them to improve life for all Americans.

American Cultures I (2120)**Grade 9**

This course is a study of American history from the colonization of America to Reconstruction. The building of colonies, American Revolution, creation of the Constitution, rise of sectionalism, and the Civil War will be emphasized. Students will gain an understanding of the events in early American history that will help them gain an appreciation of the first century of our nation's growth and development.

American Cultures II (2220)**Grades 10, 11**

This course emphasizes the period of American history from the 19th Century to modern times. The course deals with the problems and conflicts during the rise of industrialism, the World Wars, depression days, and the challenge of world leadership. By use of an inter-disciplinary approach, the student will become aware of the social, cultural, and economic aspects of each of the above mentioned areas.

Government/Sociology (2330)**Grades 11, 12**

American Government and Sociology examines the ideas which have shaped our American political and social traditions with emphasis on the political institutions and the roll of government and its people on the American Way of life. Topics studied include political behavior, political culture, Congress, the Presidency, and our federal courts. The challenge to you, the student, is very simple. If you are to defend and maintain our American way of life, it is necessary for all of you to understand what the meaning of democracy is, and what problems, difficulties, and dangers of external threat and internal weakness must be faced and challenged, so that all of you will be better prepared to assume responsibilities as well as be informed citizens of the world of tomorrow.

Psychology (2433)**Grades 11, 12**

Psychology is an introductory study of human behavior with an emphasis on the application of psychological concepts and theories to everyday living. It is designed to arouse student interest in the causes of human behavior and the inter-relationships of man. Major areas of investigation include personality development, perception of self and the world, personality theories, motivation, emotions, abnormalities, therapy, and learning.

World Cultures (2321)**Grades 11, 12**

It is a summary course of the cultures of pre-historic, ancient, medieval, and modern man. It is designed to develop an appreciation and an understanding of the different cultures of the world, both past and present. It also imparts knowledge and understanding of human events, the rise and fall of empires, religious beliefs, human conflicts, educational and scientific achievements, and realization of interdependence of the nations and people of the world. Coursework emphasizes development of research and writing skills and the analysis and interpretation of primary sources. Students have the option to compete in National History Day Competition.

TECHNOLOGY EDUCATION

Industrial Technology will help students develop problem-solving skills. Students will learn to identify problems and come up with workable solutions. Technology students will use and work with various tools and machines to achieve a desired outcome.

Technology comes from the knowledge and skills that are needed to use raw materials, tools, and energy to create the products we want.

Industrial Technology Math (7829) Grade 8

The course is designed to address the State Academic Standards in Mathematics through technology. Mathematical concepts are introduced and applied through technology avenues, such as use of a spreadsheet. Students are challenged to solve open-ended problems where the process, as much as the answer is emphasized.

Technology Exploration I (7159) Grade 9

This course is designed as an introductory course for freshmen students. Students will develop technical skills along with drafting skills. These skills will allow the students to complete various required projects.

Technology Exploration II - III (7221) Grades 10, 11, 12

This is a more comprehensive course of Construction Technology. Technology is used to change basic industrial material into useful consumer and industrial products. In this course, students are exposed to various raw materials and the manufacturing techniques used to process these materials into usable goods to reinforce what they are learning. Each student is challenged to create a unique, personal project as a requirement of the course.

Technical Drawing and Design I (7223) Grades 11, 12

In this course, students are exposed to basic drafting techniques such as sketching, measuring, orthographic projections, and isometric pictorials through a series of drawing exercises. Students will be introduced to the basic architectural drawing. Students will complete a floor plan of their choosing and later create a basic, scaled model using hands on crafting to develop their fine motor skills. Students may choose some or all of their work using computer aided drafting.

Technical Drawing and Design II (7323) Grades 11, 12

Prerequisite: Technical Drawing I

This is a continuation of Technical Drawing I and Design I. The emphasis is on architectural drawing and design. Students will chose and individual floor plan and will develop a full set of blue prints. Students will be exposed to a more detailed form of CAD while still alternating it with traditional, instrumental drafting. Students will also be expected to create hands on scaled models that will represent the architectural design that they have selected. The students will keep a working portfolio of all the projects that they have created in this class.

SPECIAL EDUCATION SERVICES

The Greater Nanticoke Area School District offers a wide variety of special education services which are meant to assist students who may be diagnosed as handicapped or disabled. If a parent feels the child could benefit from a special education program or service, he/she should notify the child's guidance counselor so that an evaluation can be implemented.

NON - DISCRIMINATION POLICY

It is the policy of the Greater Nanticoke Area School District not to discriminate on the basis of race, color, religion, national origin, sex, age, conduct or disability in administering its educational and vocational programs or employment as required by Title VI and Title IX, Section 504 and the Americans with Disabilities Act.

For information regarding civil rights and grievance procedures contact:

Jeffrey Katra

ADA Coordinator/School Psychologist 425 Kosciuszko Street Nanticoke, PA 18634-2698 Telephone: (570) 735-1701 TDD: (570) 735-7783

or

Anthony P. Perrone, Superintendent of Schools
Administrative Complex

427 Kosciuszko Street Nanticoke, PA 18634-2690 Telephone: (570) 735-1270