

Greater Nanticoke Area High School



*Program of Studies
2021 – 2022*

TABLE OF CONTENTS

Table of Contents	1
Board of Directors	2
Superintendent of Schools	2
School District Administration	2
Guidance Department	2
District Mission Statement	3
Non Discrimination Policy	3
Principal's Message	4
Areas of Concentration	5
General Scheduling Guidelines	6
Advanced Placement/Dual Enrollment	7
Honor Roll	8
Grading Scale	8
Promotion Policy	8
PSSA/Keystone Exam	9
Graduation Requirements	10
Areas of Concentration	
Academic/Academic Honors	11-14
Advanced Placement Courses	22, 24, 25, 28, 30
Career/Technical	15-17
Wilkes-Barre Career Technical Center Courses	18
Course Descriptions:	
English	19-22
Mathematics	23-25
Science	26-28
History	29-30
Language Electives	31
Physical Education/Health	32
Career Credits	
9 th Grade Experiences	33
21 st Century Skills	33
Career Prep	33
Elective Descriptions:	33-38
Adv Living I, Adv Liv II, and Adv Liv III, Art I, Art II	33
Art III/IV, Basic Liv I, Chorus I, Chorus II, Chorus III, Chorus IV,	
Computer Lit 9	34
Computer Programming I, Computer Programming II, Creative Writing	
Journalism I, Journalism II	35
Journalism III, Law Studies, Life Fitness, Music 9, History of Rock & Roll,	
Music Theory I Honors, Music Theory II Honors	36
Personal Finance, Psychology I, Public Speaking/Poetry, Tech Exploration I,	
Tech Exploration II, Tech Exploration III	37

GREATER NANTICOKE AREA SCHOOL DISTRICT

SUPERINTENDENT OF SCHOOLS

Dr. Ronald Grevera

SCHOOL DISTRICT ADMINISTRATION

Ms. Amy Scibek, Principal – High School
Mr. Eric Speece, Assistant Principal – High School
Mr. Ron Bruza, Principal – Educational Center
Mrs. Jessica Fletcher, Principal – Elementary Center
Mrs. Valerie Bartle, Principal- Kennedy Early Childhood Center
Ms. Meghan Buckley, Director of Secondary Level Special Education
Mrs. Alicia Erwine – Director of Elementary Level Special Education

GUIDANCE DEPARTMENT

Ms. Sara Kneal, Secondary School Counselor – Grades 9-12 (Letter A through L)
Mr. Bill Hischak, Secondary School Counselor – Grades 9-12 (Letter M through Z)

GREATER NANTICOKE AREA SCHOOL DISTRICT

DISTRICT MISSION STATEMENT

The School District of Greater Nanticoke Area, in an active partnership with families and the community, will work to prepare our students for the challenges of the future by having an integrated curriculum that will inspire each student to become a lifelong learner in a global community.

NON DISCRIMINATION POLICY

The Greater Nanticoke Area School District does not discriminate on the basis of age, sex, handicap, race, religion, creed, national origin, veteran status or political affiliation. Inquiries concerning Title VI, IX Section 504, and the Americans with Disabilities Act compliance should be directed to Dr. Ronald Grevera, Superintendent, at 427 Kosciuszko Street, Nanticoke, PA 18634, 570-735-1270. For information regarding services, activities, programs and facilities that are accessible to and usable by individuals with disabilities, contact the building principal.

**Greater Nanticoke High School / 570-735-7781
Ms. Amy Scibek, Principal**

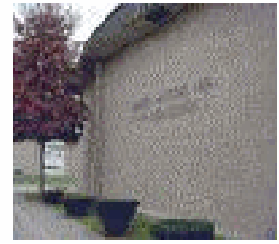
**Greater Nanticoke Area Educational / 570-735-2770
Mr. Ron Bruza, Principal**

**Elementary Center / 570-735-1320
Mrs. Jessica Fletcher, Principal**

**Kennedy Early Childhood Center / 570-735-6450
Mrs. Valerie Bartle, Principal**

Greater Nanticoke Area High School

Nanticoke, Pennsylvania 18634



Dear Greater Nanticoke Area High School Students/Parents/Guardians,

Course selection is a critical step in our efforts to develop college, career, and workforce ready students and promote the success of our graduates. The 2019-2020 Program of Studies serves as a guide; has been collaboratively prepared by the High School administration, faculty, and guidance staff; and can be found under the **Greater Nanticoke Area School District website: www.gnasd.com (then GNA Schools/High School/2021-2022 Program of studies)**. It initiates the plan for students to achieve their future goals. Hard copies are also available in the High School Office.

We encourage you to review this guide carefully and make informed decisions. You should pay particular attention to the Graduation Requirements and Areas of Concentration sections. Students, parents, teachers, guidance counselors, and administration share collective responsibility for schedule approval. If you have questions or concerns, please contact the High School Guidance Office.

It is our hope that you will take full advantage of our class offerings to maximize your potential and achieve your goals. The courses you select and how well you master them may well determine your future success.

Sincerely,
Ms. Amy L. Scibek
High School Principal

AREAS OF CONCENTRATION

The areas of concentration are designed to provide students with opportunities for a sound secondary education that will prepare them with the knowledge and skills essential for college, career, and workforce readiness. Each student will choose from one of the following areas of concentration:

Academic/Academic Honors

Students who plan to attend a four-year college or university upon completion of high school should complete the academic area of concentration. This area is structured so that students may successfully complete **four credits each of English, History, Math, and Science**, in addition to the required major and minor electives. The Academic Honors area encourages students to take even more rigorous and weighted classes. Students who aspire to take honors and advanced placement courses may do so as long as they meet the academic requirements for each specific course. Honors, dual enrollment, and advanced placement courses are weighted due to the higher-level requirements.

About AP (Advanced Placement)

The College Board's Advanced Placement Program (AP) enables students to pursue college level studies while still in high school. Through more than 30 courses, each culminating in a rigorous exam, AP provides willing and academically prepared students with the opportunity to earn college credit and/or advanced placement. Taking AP courses also demonstrates to college admission officers that students have sought out the most rigorous course work available to them. Each AP course is modeled upon a comparable college course, and college and university faculty play a vital role in ensuring that AP courses align with college-level standards. Talented and dedicated AP teachers help AP students in classrooms around the world develop and apply the content knowledge and skills they will need later in college. Each AP course concludes with a college-level assessment developed and scored by college and university faculty, as well as experienced AP teachers. AP Exams are an essential part of the AP experience, enabling students to demonstrate their mastery of college-level course work. Most four-year colleges and universities in the United States and universities in more than 60 countries recognize AP in the admission process and grant students credit, placement, or both on the basis of successful AP Exam scores. Visit www.collegeboard.org/apcreditpolicy to view AP credit and placement policies at more than 1,000 colleges and universities. Performing well on an AP Exam means more than just the successful completion of a course, it is a gateway to success in college. Research consistently shows that students who receive a score of three or higher on AP Exams typically experience greater academic success in college and have higher graduation rates than their non-AP peers. (<https://apcentral.collegeboard.org/pdf/ap-us-government-and-politics-course-framework-effective-fall-2018.pdf>)

Career and Vocational

The Career and Technical Center area of concentration is intended to provide a meaningful experience and an education that will lead to workforce entry or postsecondary education. Beginning in tenth grade, students attend half-day sessions at Nanticoke High School and Wilkes-Barre Area Career Technical Center. Students who remain in the same vocational shop for three consecutive years may receive certification in that shop.

Specialized Instruction

It should also be noted that the Greater Nanticoke Area School District provides a full continuum of special education services for eligible students in accordance with the Individuals with Disabilities Education Act (IDEA) and Chapter 14 of the PA Code. Additional information can be obtained by contacting Ms. Meghan Buckley, Director of Secondary Special Education, at 570-735-1701.

GENERAL SCHEDULING GUIDELINES

All students of the Greater Nanticoke Area High School have the responsibility to plan a yearly program of studies. This responsibility should not be taken lightly. Sometimes a student's requested courses cannot be honored, nor are they appropriate. As the individual schedule is prepared for its final submission, it is anticipated that the student will have considered:

- Past performances/academic records, current grades, abilities, career interests, and goals.
- The advice of parents, teachers, and guidance counselors.

The following general scheduling guidelines should be considered carefully:

1. All students must register for five (5) full credit courses plus Health and Physical Education if needed. A major required 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. A student may not change their area of concentration without meeting with his/her guidance counselor. A parental approval form must also be signed and filed in the Guidance Office.
3. All students are reminded that if they select the Career and Technical curriculum, **THEY MUST REMAIN IN THAT SEQUENCE FOR THE ENTIRE YEAR.**
4. Occupational Co-op Programs are available only through registration in the Vocational Technical Curriculum through the Wilkes-Barre CTC.
5. 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. ***Dual enrollment courses will count only as electives and shall not take the place of mandatory GNA courses necessary for graduation.*** Please see Dual Enrollment section on next page for complete policy and guidelines.
6. Although schedule selections are closely monitored, the student is responsible for fulfilling all credit requirements towards graduation. Parents/students may contact the Guidance Office at 570-735-7755 for verification.

THERE WILL BE NO SCHEDULING CHANGES AFTER THE REGULAR SCHEDULING TIME PERIOD, EXCEPT AS EXPRESSLY PERMITTED BY THE PRINCIPAL. NO CHANGES WILL OCCUR AFTER **SEPTEMBER 24TH**.

ADVANCED PLACEMENT/DUAL ENROLLMENT

The Greater Nanticoke Area High School offers several cost effective options for eligible students to earn college credit while attending high school.

Advanced Placement Courses

Advanced Placement courses are considered both challenging and demanding. While working rigorously toward preparation for the AP Exams in May, students are expected to read and write extensively and independently. Please see course descriptions for additional details.

Dual Enrollment Courses

Dual enrollment courses will count only as electives and shall not take the place of mandatory GNA courses necessary for graduation.

Members of the Junior and Senior Class have the opportunity to apply for Dual Enrollment classes at our local colleges. Eligibility requirements are as follows:

1. Students must have junior or senior high school status.
2. Students must have a cumulative 94% or higher GPA.
3. Students must attain the level of Proficient or Advanced on all Keystone related exams.
4. Students must take a minimum of (5) five courses at GNA.
5. Dual enrollment courses may count only as electives and may *not* take the place of mandatory GNA courses necessary for graduation.
6. Juniors will be allowed to take one course per semester.
7. Seniors will be allowed to take two courses per semester.
8. Dual enrollment classes may only be taken between the hours of 8 AM and 10 AM, and after 1 PM.
9. Any changes to college class schedules may only be made with the written consent of high school administration or counselors.
10. Students must provide their own transportation and pay for their own college textbooks/supplies.
11. Students must follow the academic calendars of both the GNA High School and the college of their choice, which are often not the same.
12. Students must follow the GNA High School Code of Conduct during college classes and will be held accountable for any inappropriate behavior.
13. Students are responsible for ensuring the college credits obtained during the dual enrollment process will transfer to the college of their choice. Being enrolled in dual enrollment, you may not exceed 7 credits per semester.

*Students who do not meet the GPA requirement may still utilize the Dual Enrollment Program by taking evening, online, or weekend classes but will not receive high school elective credit(s) for passed course(s).

***If student opts for virtual/on-line dual enrollment courses, please be advised these must be a free period available in GNA schedule to fulfill requirements.**

HONOR ROLL

Any student may obtain honor roll status by achieving the following minimum quarterly grade point average:

94.500 – 100+	GPA	Honors with Distinction
89.500 – 94.499	GPA	High Honors
84.500 – 89.499	GPA	Honors

GRADING SCALE

Grade Point Average is computed on a 100% weighted scale. All courses starting in grade 9 are computed to determine GPA and Class Rank. Grades are calculated according to the following scale:

A+	100 and above
A	95 to 99
B+	90 to 94
B	85 to 89
C+	80 to 84
C	75 to 79
D	70 to 74
F	0 to 69

PROMOTION POLICY

1. Each student must complete four (4) major subjects and complete a minimum of (5) credits in a school year to be promoted to the next grade.
2. Students are assigned to homerooms based upon the cumulative credits earned in major subject areas.
3. A student can make up failures by successfully completing subjects taken in an approved summer school and earning the minimum passing grade (when averaged with the regular school year semester marks).
4. Private tutoring to make up failures must have prior approval of the principal.
5. The principal may certify promotion in grades nine through eleven under certain conditions after consultation with the teachers involved and the Guidance Department.

PSSA / Keystone Exams Information

The Pennsylvania System of School Assessment (PSSA) is an annual assessment administered in Commonwealth classrooms in grades 3 through 8, and in English Language Arts and Mathematics. Pennsylvania adopted more rigorous PA Core Standards in late 2013 and the 2015 PSSA marks the first time the assessment was fully-aligned to the standards. These new, more rigorous standards aim to better prepare students for the 21st century workforce. The Keystone Exams are end-of-course assessments designed to assess proficiency in the subject areas of Algebra I, Literature, and Biology. Students who struggle achieving proficiency in one or more of the Keystone Exam content areas will be given the opportunity to remediate and re-test.

Assessment scores represent a snapshot in time of student performance and should not be considered the sole indicator of student achievement. Standardized assessments help Pennsylvania meet federal and state requirements, as well as provide educators, stakeholders, and policymakers with important information about the Commonwealth's students and schools, and inform instructional practices. The Greater Nanticoke Area School District reserves the right to modify student schedules based on past performance on these types of assessments, and others measures, in order to provide academic intervention and support growth and achievement.

GRADUATION REQUIREMENTS

Grades 9 through 12

Academic/Academic Honors

English	4 credits
Mathematics	4 credits
Science	4 credits
Social Studies	4 credits
Health and Physical Education Electives	1 credit
Electives	<u>6 credits</u>
Total Credits Required (Minimum)	23 credits

Career/Vocational *3 year track, 10th -12th grade

English	4 credits
Mathematics	3 credits
Science	3 credits
Social Studies (U.S. History and World Cultures)	3 credits
Health and Physical Education Electives	1 credits
Vocational Shop/ Elective Classes	<u>9 credits</u>
Total Credits Required (Minimum)	23 credits

Career Portfolio

A Career Portfolio is a tool for students to help them think through and plan for their future education and career. The PA Career Education and Work Standards require all students to have a career portfolio beginning in the 8th grade and continuing until graduation. More information can be obtained through the following link:

(<https://www.education.pa.gov/K-12/PACareerStandards/Resources/Pages/CareerPortfolio.aspx>)

AREAS OF CONCENTRATION
Academic/Academic Honors
Ninth Grade

REQUIRED MAJOR SUBJECTS

+ENGLISH:

0130 ELA 9
0130H ELA 9 Honors

+HISTORY:

2120 Early American History
2120H Early American History Honors

LANGUAGE ELECTIVES:

1113 Spanish I
1110 French I

REQUIRED MAJOR SUBJECTS

+MATHEMATICS:

3121A Algebra 1A
3123 Algebra 1 (Keystone Tested)
3123H Algebra 1 Honors (Keystone Tested)
3331 Geometry
3331H Geometry Honors

+SCIENCE:

4130 Science 9
4130H Science 9 Honors

ELECTIVES:

(The following are 1 Credit Courses unless otherwise indicated)

7120 Basic Living Skills
8132 Chorus 1
9204 Personal Finance
7159 Tech Exploration

+REQUIRED MINOR SUBJECTS

+7724	9 th Grade Experience (.25 Cr)
+3130	Computer Lit (.25 Cr)
+8131	Music (.25 Cr)
+9121	Physical Education (.25 Cr)

Student Must Select 5 Courses

- 4 Major Courses, 1 Elective

1 English

1 Math

1 History

1 Science

1 Elective

***Student must also select all of the required minor courses in box above**

AREAS OF CONCENTRATION

Academic/Academic Honors

Tenth Grade

REQUIRED MAJOR SUBJECTS

+ENGLISH:

0230 ELA 10 (Keystone Tested)
0230H ELA 10 Honors (Keystone Tested)

+HISTORY:

2220 Modern American History
2220H Modern American History Honors

LANGUAGE ELECTIVES:

1113 Spanish I
1213 Spanish II

1110 French I
1210 French II

REQUIRED MINOR SUBJECTS +9241 Health Education II (.25 Cr) +9211 Physical Education II (.25 Cr) +7824 21 st Century Skills (.25 Cr)
--

*Student must select all of the required minor courses in box above

REQUIRED MAJOR SUBJECTS

+MATHEMATICS:

3121B Algebra 1B (Keystone Tested)
3223 Algebra 2
3331 Geometry
3331H Geometry Honors
3221 Concepts of Geometry
3223H Algebra 2 Honors

+SCIENCE:

4227 Keystone Biology (Keystone Tested)
4227H Keystone Biology Honors (Keystone Tested)
4228 Concepts of Keystone Biology
4324H Chemistry I Honors

ELECTIVES:

(All are 1 Credit Courses unless otherwise indicated)

7220 Advanced Living Skills I
5230 Art I
7120 Basic Living Skills I
8132 Chorus I
8232 Chorus II
9205 Computer Programming I
0450 Journalism I
8535 History of Rock and Roll
9511 Life Fitness (0.25 cr)
8536H Music Theory I Honors
8537H Music Theory II Honors
9204 Personal Finance
7159 Tech Exploration I
7221 Tech Exploration II
+9998 AM CTC- if Applicable

Student Must Select 5 Courses:

4 Major Courses (1 Science, 1 Math, 1 English, 1 History)
1 Elective

AREAS OF CONCENTRATION
Academic/Academic Honors
Eleventh Grade

REQUIRED MAJOR SUBJECTS

+ENGLISH:

0330 ELA 11
 0330H ELA 11 Honors

+ HISTORY:

2321 World Cultures
 2321H World Cultures Honors
 2320AP AP U. S. History

LANGUAGE ELECTIVES:

1113 Spanish I
 1213 Spanish II
 1313 Spanish III Honors
 1413 Spanish IV

1110 French I
 1210 French II
 1310 French III Honors
 1410 French IV

+ REQUIRED MINOR SUBJECTS

9321 Physical Education III (.25 Cr)
 9341 Health Education III/IV (.50 Cr)

*Please note: All students must successfully complete 1 full credit of Phys Ed/Health by the end of grade 12.

REQUIRED MAJOR SUBJECTS

+ MATHEMATICS:

3321 Concepts of Algebra 2
 3223 Algebra 2
 3223H Algebra 2 Honors
 3221 Concepts of Geometry
 3331 Geometry
 3412 Probability/Statistics
 3411AP AP Statistics
 3414AP AP Calculus
 3313 Trigonometry
 3313H Pre-Calculus/Trigonometry Honors

+SCIENCE:

4328 Environmental Science
 4328H Environmental Science Honors
 4323 Conceptual Chemistry
 4324 Chemistry I
 4324H Chemistry I Honors
 4424H Chemistry II Honors
 4428H Advanced Biology Honors
 4423H Physics 1 Honors

ELECTIVES:

(All are 1 Credit Courses unless otherwise indicated..)

7110 Advanced Living Skills I
 7220 Advanced Living Skills II
 9208 Computer Science Principles
 9209 Computer Science A
 Art Art I - 5230 --- Art II - 5330
 7924 Career Prep (1.0)
 Chorus Chorus I - 8132 - Chorus II - 8232 Chorus III - 8332
 9208AP Computer Science Principles (AP Teacher ___)
 9209AP AP Computer Science A (AP Teacher ___)
 0471 Film as Literature
 0450 Journalism I
 0451 Journalism II
 6344 Law Studies
 9511 Life Fitness (.25 Cr)
 8535 History of Rock and Roll
 8536H Music Theory I Honors
 8537H Music Theory II Honors
 9204 Personal Finance
 2433 Psychology
 0460 Public Speaking/Poetry
 7159 Tech Exploration I
 7221 Tech Exploration II
 7222 Tech Exploration III
9999 PM CTC- If Applicable

Student Must Select 5 Courses

- 4 Major Courses, 1 Elective:

1 English, 1 Math, 1 History, 1 Science, 1 Elective

Note: Student must also select all of the required minor courses in box above.

AREAS OF CONCENTRATION
Academic/Academic Honors
Twelfth Grade

REQUIRED MAJOR SUBJECTS

+ENGLISH:

- 0430 ELA 12
- 0430H ELA 12 Honors
- 0440AP AP English Literature and Composition

+HISTORY:

- 2330 Government/Sociology
- 2320AP AP U. S. History (AP Teacher__)
- 2310AP AP U.S. Govt & Politics (AP Teacher__)

LANGUAGE ELECTIVES:

- 1113 Spanish I
- 1213 Spanish II
- 1313 Spanish III Honors
- 1413 Spanish IV Honors
- 1413AP AP Spanish Language & Culture

- 1110 French I
- 1210 French II
- 1310 French III Honors
- 1410 French IV Honors

+ REQUIRED MINOR SUBJECTS

- 9421 Physical Education IV (.25 Cr)

*Please note: All students must successfully complete 1 full credit of Phys Ed/Health by the end of grade 12.

Student Must Select 5 Courses:

- 4 Major Courses, 1 Elective:

1 English, 1 Math, 1 History, 1 Science, 1 Elective

Note: Student must also select all of the required minor courses in box above.

REQUIRED MAJOR SUBJECTS

+MATHEMATICS:

- 3321 Concepts of Algebra 2
- 3223 Algebra 2
- 3223H Algebra 2 Honors
- 3412 Probability/Statistics
- 3313 Trigonometry
- 3313H Pre-Calculus/Trigonometry Honors
- 3414AP AP Calculus(AP Teacher__)
- 3411AP AP Statistics(AP Teacher__)
- 3520 College Ready Math

+SCIENCE:

- 4328 Environmental Science
- 4328H Environmental Science Honors
- 4323 Conceptual Chemistry
- 4324 Chemistry I
- 4324H Chemistry I Honors
- 4424H Chemistry II Honors
- 4428H Advanced Biology Honors
- 4423H Physics I Honors
- 4429AP AP Biology(AP Teacher__)
- 4441 Scientific Research and Design
- 4440EH Engineering Scientific Research & Design Honors

ELECTIVES:

(All are 1 Credit Courses unless otherwise indicated)

- 7110 Advanced Living Skills I
- 7220 Advanced Living Skills II
- 7330 Advanced Living Skills III
- Art Art I - 5230 -- Art II - 5330 --- Art III/IV - 5430
- Chorus Chorus I - 8132 - Chorus II - 8232 Chorus III - 8332 Chorus IV - 8432
- 9208 Computer Science Principles
- 9209 Computer Science A
- 9208AP AP Computer Science Principles (AP Teacher__)
- 9209AP AP Computer Science A (AP Teacher__)
- 0471 Film as Literature
- 0450 Journalism I
- 0451 Journalism II
- 0452 Journalism III
- 6344 Law Studies
- 9511 Life Fitness (.25 Cr)
- 8535 History of Rock and Roll
- 8536H Music Theory I Honors
- 8537H Music Theory II Honors
- 9204 Personal Finance
- 2433 Psychology I
- 0460 Public Speaking/Poetry
- 7159 Tech Exploration I
- 7221 Tech Exploration II
- 7222 Tech Exploration III
- 0460 Public Speaking/Poetry
- 7924 Career Prep
- 9999 PM CTC- If Applicable**

AREAS OF CONCENTRATION
Career Technical
Tenth Grade

REQUIRED MAJOR SUBJECT

+ENGLISH:

0230 ELA 10 (Keystone Tested)
 0230H ELA 10 Honors (Keystone Tested)

REQUIRED MAJOR SUBJECT

+MATHEMATICS:

3121B Algebra 1B (Keystone Tested)
 3331 Geometry
 3221 Concepts of Geometry

***REQUIRED MINOR COURSES:**

9241 Health Education II (.25 Cr)
 9211 Physical Education II (.25 Cr)
 7824 21st Century Skills (.25 Cr)

*Please note: All students must successfully complete 1 full credit of Phys Ed/Health by the end of grade 12.



+ 9998 AM CTC

WBACTC application, which is obtained through guidance, is required if new enrollment.

Students will be at the WBACTC for the morning and will spend the afternoon session at Greater Nanticoke Area High School.

Student can receive up to 9 elective credits of instruction from their shop class toward reaching the graduation requirements of 21 credits from Greater Nanticoke Area.

English	4 credits	
Mathematics	3 credits	
Science	3 credits	
Social Studies (U.S. History and World Cultures)		3 credits
Health and Physical Education Electives		1 credits
Vocational Shop/ Elective Classes	<u>9 credits</u>	
Total Credits Required (Minimum)		21 credits

AREAS OF CONCENTRATION

Career Technical

Eleventh Grade

REQUIRED MAJOR SUBJECTS

+ENGLISH:

0330 ELA 11
0330H ELA 11 Honors

+ HISTORY:

2220 Modern American History
2220H Modern American History Honors

REQUIRED MAJOR SUBJECTS

+ MATHEMATICS:

3331 Geometry
3223 Algebra II
3221 Concepts of Geometry
3321 Concepts of Algebra II
3412 Probability/Statistics

+SCIENCE:

4227 Keystone Biology (Keystone Tested)
4227H Keystone Biology Honors (Keystone Tested)
4228 Concepts of Keystone Biology (Keystone Tested)



+ 9999 PM CTC

WBACTC application, which is obtained through guidance, is required if new enrollment.

The students will receive four periods of instruction at Greater Nanticoke Area High School in the morning and will spend the afternoon at the WBACTC.

Student can receive up to 9 elective credits of instruction from their shop class toward reaching the graduation requirements of 21 credits from Greater Nanticoke Area.

English	4 credits	
Mathematics	3 credits	
Science	3 credits	
Social Studies (U.S. History and World Cultures)		3 credits
Health and Physical Education Electives		1 credits
Vocational Shop/ Elective Classes	<u>9 credits</u>	
Total Credits Required (Minimum)		21 credits

AREAS OF CONCENTRATION
Career Technical
Twelfth Grade

REQUIRED MAJOR SUBJECTS

+ENGLISH:

0430 ELA 12
 0430H ELA 12 Honors
 0440AP AP English Literature
 and Composition

+HISTORY:

2320 Government/Sociology
 2321 World Cultures

REQUIRED MAJOR SUBJECTS

+MATHEMATICS:

3223 Algebra 2
 3321 Concepts of Algebra 2
 3412 Probability/Statistics
 3520 College Ready Math

+SCIENCE:

4328 Environmental Science
 4328 Environmental Science Honors
 4324 Chemistry I
 4428 H Advanced Biology Honors
 4441 Scientific Research and Design

+ REQUIRED MINOR SUBJECTS
 9321 Physical Education III (.25 Cr)
 9341 Health Education III/IV (.50 Cr)

 *Please note: All students must successfully complete 1 full credit of Phys Ed/Health by the end of grade 12.

+ 9999 PM CTC



The students will receive four periods of instruction at the Greater Nanticoke Area High School and spend the afternoon at the WBACTC.

Student can receive up to 9 elective credits of instruction from their shop class toward reaching the graduation requirements of 21 credits from Greater Nanticoke Area.

English	4 credits
Mathematics	3 credits
Science	3 credits
Social Studies (U.S. History and World Cultures)	3 credits
Health and Physical Education Electives	1 credits
Vocational Shop/ Elective Classes	<u>9 credits</u>
Total Credits Required (Minimum)	21 credits

Wilkes-Barre Area Career Technical Center Courses

GRADES	COURSE OFFERINGS
10-11-12	Air Conditioning & Refrigeration
10-11-12	Audio Visual Communications
10-11-12	Auto Body & Collision Repair Technology
10-11-12	Auto Mechanics I
10-11-12	Auto Mechanics II
10-11-12	Carpentry and Millwork
10-11-12	Child Care & Support Services
10-11-12	Computer Information Technology
10-11-12	Cooperative Education
10-11-12	Cosmetology I
10-11-12	Cosmetology II
10-11-12	Culinary Arts I
10-11-12	Culinary Arts II
10-11-12	Diesel and Heavy Equipment
10-11-12	Drafting
10-11-12	Electrical Construction
10-11-12	Graphic Arts
10-11-12	Health & Medical Assistant
10-11-12	Law Enforcement/Police Science
10-11-12	Machine Shop
10-11-12	Marketing
10-11-12	Masonry
10-11-12	Ornamental Horticulture
10-11-12	Plumbing and Pipefitting
10-11-12	Residential Construction
10-11-12	Warehouse Management
10-11-12	Welding

COURSE DESCRIPTIONS

English

0130 ELA 9

Grade 9

This course, aligned to the PA Common Core Standards for English Language Arts for Grade 9, begins the first half of instruction in preparation for the Keystone Exam in Literature. This exam will be taken upon the completion of either English Language Arts 10 or English Language Arts Honors 10. Students develop proficiency in reading for meaning, analyzing and interpreting fictional and nonfictional literature, and in writing informative/explanatory and argumentative essays. Students explore how literary devices and elements relate to author's purpose. While acquiring the ability to infer, generalize, paraphrase and summarize, students examine the historical, cultural and universal significance of literature from multiple genres.

*Passing ELA 9 is the prerequisite for taking ELA 10.

0130H ELA 9 Honors

Grade 9

Prerequisite: 90 or above in both ELA 8 and Reading 8 and teacher recommendation

Required for this class: Independent novel readings and a final project are required for this class.

ELA Honors 9 challenges students to apply critical thinking strategies as English Language Arts skills are developed within the scope of the 9th grade ELA curriculum. This rigorous course, aligned to the PA Common Core Standards for ELA, Grade 9, comprises the first half of Keystone Literature Exam preparation and requires students to exhibit independent work habits, enthusiasm for learning, and motivation for success. Students develop proficiency in reading for meaning, in analyzing and interpreting fiction and nonfiction, and in writing informative/explanatory and argumentative essays. Students explore how literary devices and elements relate to author's purpose while acquiring the ability to infer, generalize, paraphrase and summarize. Students examine the historical, cultural, and universal significance of literature from multiple genres.

Students will be required to independently read five novels throughout the year, one per quarter in addition to *Of Mice and Men* by John Steinbeck, which should be read the summer before entering ninth grade. An assessment will follow each reading.

0230 ELA 10

Grade 10

Prerequisite: ELA 9

This course, aligned to the PA Common Core Standards for English Language Arts for Grade 10, continues with the second half of instruction in preparation for the Keystone Exam in Literature. This exam will be taken upon the completion of this course. Students will engage in reading and responding to fictional and nonfictional literature during the continued exploration of poetry, short stories, drama and the novel. This course will also provide students the opportunity to expand their knowledge of the writing process with a particular focus on the following writing elements: the use of prewriting techniques to generate topics; the employment of strategies for drafting, editing, and revising for clarity, effectiveness, and interest; the translation of topics into thesis statements; and the revision of writing with attention to structure and mechanics.

Continued.....

(ELA 10 Honors continued) As a result of this course, students will be able to create written documents using writing as a process method, recognize and use various methods of development, such as description, narration, illustration, process analysis, classification, compare/contrast and definition. Students will also initiate and engage in meaningful collaborative discussion on grade-level topics heightened by their ability to reason, provide evidence, and evaluate the views of others while exploring their own beliefs and assumptions. *Passing ELA 10 is the prerequisite for taking ELA 11. **This is the Keystone Test Course.**

0230H

ELA 10 Honors

Grade 10

Prerequisite: 90 or above in ELA 9/ ELA 9 Honors and teacher recommendation

Required for this class: Independent novel readings and a final project are required for this class.

ELA Honors 10 thoroughly challenges students to apply critical thinking strategies as English Language Arts skills are further developed within the scope of the 10th grade ELA curriculum. This rigorous course requires students to exhibit independent work habits, enthusiasm for learning, and motivation for success.

This course, aligned to the PA Common Core Standards for English Language Arts for Grade 10, continues with the second half of instruction in preparation for both the Keystone Exam in Literature. This exam will be taken upon the completion of this course. Students will engage in reading and responding to fictional and nonfictional literature during the continued exploration of poetry, short stories, drama and the novel. This course will also provide students the opportunity to expand their knowledge of the writing process with a particular focus on the following writing elements: the use of prewriting techniques to generate topics; the employment of strategies for drafting, editing, and revising for clarity, effectiveness, and interest; the translation of topics into thesis statements; and the revision of writing with attention to structure and mechanics.

As a result of this course, students will be able to create written documents using writing as a process method, recognize and use various methods of development, such as description, narration, illustration, process analysis, classification, compare/contrast and definition. Students will also initiate and engage in meaningful collaborative discussion on grade-level topics heightened by their ability to reason, provide evidence, and evaluate the views of others while exploring their own beliefs and assumptions.

Students will be required to independently read five novels throughout the year, one per quarter in addition to *The Book Thief* by Marcus Zusak, which should be read the summer before entering tenth grade. An assessment will follow each reading. **This is the Keystone Test Course.**

0330

ELA 11

Grade 11

Prerequisite: ELA 10

This course is aligned to the PA Common Core Standards for English Language Arts for Grade 11. In this course, students examine perspective in connection to purpose, audience, and task. They cite strong, thorough textual evidence based on and related to the author's implicit and explicit assumptions and beliefs. Students cultivate their vocabulary through the understanding and application of new terms in their writings. Skills in grammar and conventions are honed daily through various writing and analyzing situations.

Students will further develop communication skills, work collaboratively and use information technology as a tool to access and analyze information, solve problems, and communicate ideas. In addition, a major research paper will be completed. ***Passing ELA 11 is a prerequisite for taking ELA 12.**

Prerequisite: Prerequisite: 90 or above in ELA 10/ELA 10 Honors and teacher recommendation
Required for this class: Independent novel readings and a final project are required for this class.

ELA Honors 11 thoroughly challenges students to apply critical thinking strategies as English Language Arts skills are further developed within the scope of the 11th grade ELA curriculum. This rigorous course requires students to exhibit independent work habits, enthusiasm for learning, and motivation for success.

This course is aligned to the PA Common Core Standards for English Language Arts for Grade 11. In this course, students examine perspective in connection to purpose, audience, and task. They cite strong, thorough textual evidence based on and related to the author's implicit and explicit assumptions and beliefs. Students cultivate their vocabulary through the understanding and application of new terms in their writings. Skills in grammar and conventions are honed daily through various writing and analyzing situations.

Students will further develop communication skills, work collaboratively and use information technology as a tool to access and analyze information, solve problems, and communicate ideas. Additionally, a major research paper will be completed.

Students will be required to independently read five novels throughout the year, one per quarter in addition to Mitch Albom's, *Tuesdays with Morrie* which should be read the summer before entering eleventh grade. An assessment will follow each reading.

0430 **ELA 12**

Grade 12

Prerequisite: ELA 11

This course is aligned to the PA Common Core Standards for English Language Arts for Grade 12. In twelfth grade, students advance to academic independence and college-and-career readiness. Students contend with demanding texts by utilizing previously learned skills to read, annotate, analyze and interpret literature. Students evaluate the writer's premise, purpose, and argument in both informational and literary text. Students conduct sustained research and engage in sharp, distinctive writing while making informed decisions, solving problems, evaluating the credibility and accuracy of sources, and noting discrepancies among resources.

Students will identify and trace language changes that have occurred over time while examining major social, religious and political movements. Students will apply critical thinking, listening, and reasoning skills to explore how various works from differing time periods treat various themes.

0430H **ELA 12 Honors**

Grade 12

Prerequisite: 90 or above in ELA 11/ELA Honors and teacher recommendation

Required for this class: Independent novel readings and a final project are required for this class.

ELA Honors 12 thoroughly challenges students to apply critical thinking strategies as English Language Arts skills are further developed within the scope of the 12th grade ELA curriculum. This rigorous course requires students to exhibit independent work habits, enthusiasm for learning, and motivation for success. Aligned to the PA Common Core Standards for English Language Arts for Grade 12, students advance to academic independence and college-and-career readiness.

Students contend with demanding texts by utilizing previously learned skills to read, annotate, analyze and interpret literature. Students evaluate the writer's premise, purpose, and argument in both informational and literary text. Students conduct sustained research and engage in sharp, distinctive writing while making informed decisions, solving problems, evaluating the credibility and accuracy of sources, and noting discrepancies among resources.

Continued.....

(ELA 12 Honors continued) Students will identify and trace language changes that have occurred over time while examining major social, religious and political movements. Students will apply critical thinking, listening, and reasoning skills to explore works from differing time periods treat various themes. Students hone skills in reading, writing, speaking, and listening to

master purposeful and independent expression.

Students will be required to independently read five novels throughout the year, one per quarter, including *The Lord of the Flies* by William Golding, which should be read the summer before entering twelfth grade. An assessment will follow each reading.

0440AP AP English Literature and Composition

Grade 12

Prerequisite: Scoring advanced or proficient on the Keystone Literature Exam and teacher approval

This course consists of a full academic year of work comparable to that of a college-level course. AP Literature emphasizes excellence in independent reading and writing, class participation, leadership, and creativity. This course requires an intensive reading of various types of poetry and prose from numerous literary periods at a progressive rate and will consider a work's structure, style, and theme, as well as its use of figurative language, imagery, symbolism, and tone. Students will write expository, analytical, and argumentative essays to analyze and interpret literary works. 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.

0130E, 0230E, 0330E, 0430E English as a Second Language (ESL)

Grades 9, 10, 11, 12

ESL is a program for students whose first language is not English. The ESL program helps these students learn English while also learning about American cultural values, customs, and social expectations. The goal of the ESL program is to provide students with planned instruction that will help them learn to fluently speak, read, listen, and write the English language, and become productive members of the American society.

Mathematics

3121A Algebra 1A

Grade 9

This course is for those students who completed Pre-Algebra in 8th grade. This is the first year of a two year course to prepare for the Keystone Algebra 1 exam.

3123 Algebra 1

Grade 9

Prerequisite: 85 or above in 8th Pre-Algebra and teacher referral.

This course is for students who had Pre-Algebra in 8th grade, maintained an average of 85 or above, and have teacher referral. **This course is a Keystone Exam Course.**

3123H Algebra 1 Honors

Grade 9

Prerequisite: 90 or above in 8th Pre-Algebra and teacher referral.

This course is for students who had Pre-Algebra in 8th grade and maintained an average of 90 or above, scored proficient or advanced on PSSA, and have teacher referral. **This is a Keystone Exam Course.**

3121B Algebra 1B

Grade 10

Prerequisite: Algebra 1A

This course is for those students who completed Algebra 1A in 9th grade. This is the second year of a two year course to prepare for the Keystone Algebra 1 exam. **This is a Keystone Exam Course.**

3331 Geometry

Grades 9, 10, 11

Prerequisite: Algebra 1

This course is highly recommended for students attaining a final grade of 80 or higher in Algebra 1.

This course is based on the PA Core Standards for Geometry and focuses on building the student's reasoning and logical thinking skills through the study of shapes. It provides the student with a basic understanding of the structure of geometry, deductive reasoning, and the need for precision in the language of mathematics. Math software will be used to provide individual instruction, extended topics, and remediation. Topics include the concepts, properties and applications of lines, angles and triangles.

3331H Geometry Honors

Grades 9, 10

Prerequisite: 90 or above in Algebra 1 or Algebra 1 Honors, scored proficient or advanced on the Keystone Algebra I exam, and teacher recommendation

This rigorous course is based on the PA Core Standards for Geometry and is designed to prepare students who plan to attend a four-year college. This course uses algebra skills to study deductive reasoning and the need for precision of language along with the concepts, properties and applications of lines, angles, triangles and quadrilaterals. A culminating project will be required with this course.

3221 Concepts of Geometry

Grades 10, 11

Prerequisite: Algebra 1 or Algebra 1B

This course is designed to focus on the eligible content as defined by the PA Core Standards for Geometry. 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.

3223 Algebra 2

Grades 10, 11, 12

Prerequisite: Geometry

This course is highly recommended for students attaining a final grade of 80 or higher Geometry. This course is more

academically rigorous in design and will focus on the eligible content as defined by the PA Core Standards for Algebra 2. 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.

3223H Algebra 2 Honors

Grades 10, 11

Prerequisite: 90 or above in Geometry or Geometry Honors and teacher recommendation

This course is more academically rigorous in design and will focus on the eligible content as defined by the PA Core Standards for Algebra 2. 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. A culminating project will be required with this course.

3321 Concepts of Algebra 2

Grades 11, 12

Prerequisite: Concepts of Geometry or Geometry

This course is designed to focus on the eligible content as defined by the PA Core Standards for Algebra 2. 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.

3412 Probability and Statistics

Grades 11, 12

Prerequisite: Algebra 2 or Concepts of Algebra 2

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 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.

3411AP AP Statistics

Grade 11, 12

Prerequisite: 90 or above in Algebra 2 Honors or Pre-Calculus/Trigonometry and teacher referral

AP Statistics is a full year mathematics course for students planning a career in business, science, law, medicine, math or communications. The course is designed to expand upon the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students will be exposed to four broad conceptual themes: exploring data, sampling/experimentation, anticipating patterns and statistical inference. 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.

Prerequisite: Algebra 2 or Algebra 2 Honors

This course is intended for college-bound students who will use higher-level mathematics as they continue their education after high school. Topics to be studied include trigonometric functions, radian measure, graphing trigonometric functions, trigonometric identities, inverse trigonometric functions, trigonometric equations, law of sines and cosines, and the application of trigonometric concepts to real-world scenarios.

3313H Pre-Calculus/Trigonometry Honors

Grades 11, 12

Prerequisite: 90 or above in Algebra 2 or Algebra 2 Honors and teacher recommendation

The formal study of elementary functions is extended in this course, preparing students with the background necessary to succeed in Calculus. 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, graphical, and numerical. Graphing calculators will be utilized and are required for this course.

3414AP AP Calculus

Grades 11, 12

Prerequisite: 90 or above in Pre-Calculus/ Trigonometry Honors and teacher referral

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.

3520 College Ready Math

Grade 12

Prerequisite: Algebra 2 or Concepts of Algebra 2 (can be taken concurrently)

This course is held at Nanticoke High School through collaboration with Luzerne County Community College. It is designed for those students going to any college with a non-math or science-related major, who may need a refresher on a variety of math skills. The first half of the course is a hybrid course completed through the traditional style, combined with modules completed on the computer. Students will not use calculators. Topics covered include Whole Numbers; Multiplying and Dividing Fractions; Adding and Subtracting Fractions; Decimals, Ratio and Proportion; Percent; and Measurement. Successful completion of the first half allows the student to move on to the second semester (Math101), where 3 college credits can be earned. The second half will be a more traditional course, including a sampling of topics such as Problem Solving & Logic, Personal Financial Management, and selected topics from Number Theory, Probability, and Statistics. As this is a college-level course, college-level expectations and guidelines apply. (Students may also incur some costs, determined in collaboration with LCCC, which will be kept as minimal as possible.)

Science

4130 Science 9

Grade 9

This course emphasizes scientific inquiry and inter-relationships between different areas of science. Major attention is given to 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. Concepts covered include Earth & Space Science as well as ecology.

4130H Science 9 Honors

Grade 9

Prerequisite: 90 or above average in Science 8 AND Teacher Referral

This course emphasizes scientific inquiry and inter-relationships between different areas of science. Major attention is given to practical applications that are meaningful and interesting to students. 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. Concepts covered include Earth & Space Science, and ecology topics. The intensity, speed, assimilation of material and material via outside assignments makes this course challenging.

4228 Concepts of Keystone Biology

Grades 10, 11

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.

This is a Keystone Test Course.

4227 Keystone Biology

Grade 10, 11

Prerequisite: 85 or above average in Science 9

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. **This is a Keystone Test Course.**

4227H Keystone Biology Honors

Grade 10

Prerequisite: 90 or above average in Science 9 Honors AND Teacher Referral

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. **This is a Keystone Test Course.**

Prerequisite: Concepts of Keystone Biology

The Conceptual Chemistry course utilizes the American Chemical Society's Chemistry in the Community program to introduce students to the key concepts and laws of chemistry through application to real world events and experiences. The fundamentals of matter, composition of matter, and chemical reactions are studied through laboratory experimentation and with less mathematical rigor than a traditional Chemistry course. Due to the reduced mathematical rigor, this course is not intended as a college prep course in Chemistry and should not be taken by students pursuing a science, medical, or engineering career or college program.

4324 Chemistry I**Grades 11, 12****Prerequisite: Algebra I, Keystone Biology**

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, dimensional analysis, classical and modern atomic theories, periodicity of the elements, aspects of chemical bonding, chemical reactions, and stoichiometry. A scientific calculator is required for this course.

4324H Chemistry I Honors**Grades 10, 11, 12****Prerequisite: Algebra I AND, 90 or above in Keystone Biology Honors, OR Honors Science 9 with Teacher Referral**

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. As an honors level course, students will work at a more accelerated pace, explore concepts in greater depth, and involves greater mathematical rigor than the traditional Chemistry I course. A scientific calculator is required for this course.

4424H Chemistry II Honors**Grades 11, 12****Prerequisite: 90 or above Chemistry I Honors AND Teacher Referral**

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.

4428H Advanced Biology Honors**Grades 11, 12****Prerequisite: 95 or above in Keystone Biology OR 90 or above Keystone Biology Honors 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.

4429 AP Biology**Grade 12****Prerequisite: 90 or above in Advanced Biology Honors AND Chemistry I AND Teacher Referral
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 College Board Test and the end of this course. Students are responsible for all fees of this testing.**

4423H Physics I Honors

Grades 11, 12

Prerequisite: Algebra I, AND 90 or above in Algebra 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.

4328 Environmental Science

Grade 11, 12

Prerequisite: Concepts of Keystone Biology, Keystone Biology or Keystone Biology Honors

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.

4328H Environmental Science Honors

Grades 11, 12

Prerequisite: 90 or above in Keystone Biology or Keystone Biology Honors

Honors Environmental Science examines the concepts and methodologies required to understand and calculate the impacts of altering ecosystems, to identify and evaluate the risk associated with environmental problems and analyze their solutions. Students will study conservation of natural resources; biotic resources; pollution; wildlife conservation; population dynamics and land use planning. Student participation in field trips such as the Envirothon may be required as part of this course.

4441 Scientific Research and Design

Grade 12

Prerequisite: Concepts of Keystone Biology, Keystone Biology or Keystone Biology Honors

Students conceive of, design, and complete a project using scientific inquiry and experimentation methodologies. Emphasis is typically placed on safety issues, research protocols, controlling or manipulating variables, data analysis, and a coherent display of the project and its outcomes. This class is designed for students interested in all other areas of science excluding engineering or physics.

4440EH Engineering Scientific Research and Design Honors

Grade 12

Prerequisite: 90 or above in Algebra 2 AND must have taken or be taking Physics 1 Honors

Students conceive of, design, and complete a project using scientific inquiry and experimentation methodologies. Emphasis is typically placed on safety issues, research protocols, controlling or manipulating variables, data analysis, and a coherent display of the project and its outcomes. This class is designed for students interested in the field of engineering or physics

History

2120 Early American History**Grade 9**

This course is a study of American history from colonization up to and including the Second Industrial Revolution. 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.

2120H Early American History Honors**Grade 9**

Prerequisite: Final grade of 90 or above in 8th grade Civics and teacher recommendation required.

This course is a study of American history from colonization up to and including the Second Industrial Revolution. 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.

2220 Modern American History**Grade 10**

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

2220H Modern American History Honors**Grade 10**

Prerequisite: Final grade of 90 or above in Early American History and teacher recommendation required.

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

2321 World Cultures**Grade 11**

It is a summary course of the cultures of prehistoric, 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.

2321H World Cultures Honors**Grade 11**

Prerequisite: Final grade of 90 or above in Modern American History and teacher recommendation required.

It is a summary course of the cultures of prehistoric, 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.

This course provides an overview of the structure and functions of the U.S. government and political institutions and examines constitutional principles, the concepts of rights and responsibilities, the role of political parties and interest groups, and the importance of civic participation in the democratic process. This course examines the structure and function of state and local governments and covers economic and legal topics.

2320AP AP U.S. History**Grades 11, 12****Prerequisite: Final grade of 90 or above in Modern American History Honors or World Cultures****Honors and teacher recommendation required.**

AP U.S. History is designed to be the equivalent of a two-semester introductory college or university U.S. history course. In AP U.S. History students investigate significant events, individuals, developments, and processes in nine historical periods from approximately 1491 to the present. Students develop and use the same skills, practices, and methods employed by historians: analyzing primary and secondary sources; making historical comparisons; utilizing reasoning about contextualization, causation, and continuity and change over time; and developing historical arguments. The course also provides seven themes that students explore throughout the course in order to make connections among historical developments in different times and places: American and national identity; migration and settlement; politics and power; work, exchange, and technology; America in the world; geography and the environment; and culture and society. (<https://apcentral.collegeboard.org/pdf/ap-united-states-history-course-overview.pdf>)

Students will have the opportunity to take the AP College Board Test. Students are responsible for fees of this test.

2319AP AP U.S. Government & Politics**Grades 12****Prerequisite: Final grade of 94 or above in World Cultures Honors or 90 or above in AP U.S. History and teacher recommendation required.**

AP U.S. Government and Politics provides a college-level, nonpartisan introduction to key political concepts, ideas, institutions, policies, interactions, roles, and behaviors that characterize the constitutional system and political culture of the United States. Students study U.S. foundational documents, Supreme Court decisions, and other texts and visuals to gain an understanding of the relationships and interactions among political institutions, processes, and behavior. They also engage in disciplinary practices that require them to read and interpret data, make comparisons and applications, and develop evidence-based arguments. In addition, they complete a political science research or applied civics project. (<https://apcentral.collegeboard.org/pdf/ap-us-government-and-politics-course-framework-effective-fall-2018.pdf>)

Students will have the opportunity to take the AP College Board Test. Students are responsible for fees of this test.

Language Electives

1113 Spanish I

Grades 9-12

Level I is an introductory course that takes a communicative approach to learning the language. Practical conversation in the target language is emphasized. Authentic resources (made by native speakers for native speakers) are used to stimulate student interest, to enhance the acquisition of language skills, and to expose students to the target cultures. Students are encouraged to be risk takers and to be creative in the use of their new language. Students are expected to reach Novice-Mid level of proficiency in speaking and writing and Novice-High level in listening and reading.

1110 French I

Grades 9-12

Level I is an introductory course that takes a communicative approach to learning the language. Practical conversation in the target language is emphasized. Authentic resources (made by native speakers for native speakers) are used to stimulate student interest, to enhance the acquisition of language skills, and to expose students to the target cultures. Students are encouraged to be risk takers and to be creative in the use of their new language. Students are expected to reach Novice-Mid level of proficiency in speaking and writing and Novice-High level in listening and reading.

1210 French II / 1213 Spanish II

Grades 10-12

Prerequisite: French I/Spanish I

Level II is an extension of Level I where the four language skills (listening, speaking, reading and writing) are stressed along with cultural themes. Emphasis is placed on comprehension and communication in the target language. Students are expected to reach Novice-Mid level of proficiency in speaking and writing and Novice-High proficiency in listening and reading.

1310 French III Honors / 1313 Spanish III Honors

Grades 10-12

Prerequisite: 80 or above in French II/Spanish II and teacher recommendation

The aim of level II is to further develop target language skills acquired in levels I and II and to refine accuracy of language use. Students begin to learn content in the target language, including the geography, history and culture of French-speaking and Spanish-speaking countries. Students are expected to reach Novice-High level of proficiency in speaking and writing and Intermediate-Low proficiency in listening and reading.
(Course to be weighted as Honors Course)

1410 French IV Honors / 1413 Spanish IV Honors

Grades 11-12

Prerequisite: 80 or above in French III/Spanish III and teacher recommendation

Level IV is designed to further the appreciation of the target language cultures as well as to foster skills in the four domains (listening, reading, speaking and writing) of language use. Students are expected to reach Intermediate-**Low level proficiency in speaking and writing and Intermediate-Mid level of proficiency in listening and reading.**
(Course to be weighted as an Honors Course)

AP Spanish Language & Culture

Grades 11- 12

Prerequisite: Teacher approval

Offered as an independent study class, the AP Spanish Language & Culture course emphasizes communication (understanding and being understood by others) by applying interpretive, interpersonal, and presentational skills in real-life situations. This includes vocabulary usage, language control, communication strategies, and cultural awareness. The AP Spanish Language & Culture course strives not to overemphasize grammatical accuracy at the expense of communication. To best facilitate the study of language and culture, the course is taught almost exclusively in Spanish. The AP Spanish Language & Culture course engages students in an exploration of culture in both contemporary and historical contexts. The course develops students' awareness and appreciation of cultural products (e.g., tools, books, music, laws, conventions, institutions); practices (patterns of social interactions within a culture); and perspectives (values, attitudes, and assumptions).

Career Credits

7724	9th Grade Experience	Grade 9 (Required)
<hr/>		
<p>This class will cover a wide variety of topics including communication skills, networking skills and career readiness skills. This class will fulfill the requirements for 9th grade career development standards. (5 days/ 1 quarter- .25 credit)</p>		
7824	21st Century skills	Grade 10 (Required)
<hr/>		
<p>21st Century Skills will cover a wide variety of topics that will include study skills, leadership, communication skills, self-esteem, stress management and time management. This class will fulfill the requirements for 10th grade career development standards. (1 day/ week- 1 year- .25 credit)</p>		
7924	Career Dev/Job Shadowing	Grade 11 (Recommended by guidance)
<hr/>		
<p>Career Prep will cover how to fill out a job application, soft skills and interview skills. We will also be job shadowing. This class will fulfill the requirements for 11th grade career development standards. (1 day/week- 1 year- .25 credit)</p>		

Electives

7110, 7220, 7330	Advanced Living Skills I, II, III	Grades 10, 11, 12
<hr/>		
<p>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.</p> <p>Clothing construction, crafts and interior design and decoration are among the areas covered.</p> <p>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 meaning 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 the foods will be prepared in class.</p> <p>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 better understanding of how to deal with them.</p>		
5230	Art I	Grades 10, 11, 12
<hr/>		
<p>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.</p>		
5330	Art II	Grades 11, 12
<hr/>		
Prerequisite	Art I	
<p>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.</p>		
5430	Art III/IV	Grade 12
<hr/>		
Prerequisite:	Art II	
<p>Prerequisite: Art I and Art II Independent research. Students can specialize in areas of painting, drawing, printmaking, and</p>		

sculpture. Art appreciation is also included in Art III/IV.

7120 Basic Living Skills I

Grades 9, 10

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.

8132 Chorus I

Grades 9, 10, 11, 12

The Greater Nanticoke Area High School Chorus is composed of students in grades 9-12. 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 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 after school 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.

8232, 8332, 8432 Chorus II, III, IV

Grades 10, 11, 12

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 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 after school 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.

3130 Computer Lit 9

Grade 9 Required

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

9208 Computer Science Principle Grade 10, 11, 12

Prerequisite: Algebra 1, Algebra 1 Honors or Con Algebra 1B

9208AP AP Computer Science Principles Grade 10, 11, 12

Prerequisite: 90 or above in Alg 1/Alg 1H and teacher referral

This course will introduce you to the creative aspects of programming, including abstractions, algorithms, large data sets, the internet, cybersecurity, and the impacts of computing. A foundation in core programming and problem solving is developed to harness the power of digital technology. This course engages students from diverse backgrounds including those new to computing. Using project-based lessons, you will work and collaborate to design solutions to real-world problems and apply these principles. The course includes performance task projects that demonstrate your ability to become creators, instead of merely consumers, of technology. More than a traditional introduction to programming, it is a rigorous, engaging, and approachable course that explores many of the foundational ideas of computing so all students understand how these concepts are transforming the world we live in. Students can take this course as AP or Non-AP. The AP course requires performance task portfolio items to be completed in AP approved conditions and is more rigorous to prepare students for the AP Exam. The Non-AP course offers more flexibility in content and performance task completion.

9209 Computer Science A Grades 11, 12

Prerequisite: CS Prin, AP CS Prin OR Alg 2/Alg 2H/Con Alg 2 with teacher referral

9209 AP AP Computer Science A Grades 11, 12

Prerequisite: Teacher referral AND CS Prin, AP CS Prin OR 90 or above in Alg 2/Alg 2H

This course is geared towards students who are serious about programming. Java requires a good mathematical background and strong problem solving skills. Students will learn to design and implement computer programs that solve problems relevant to today's society, including art, media, and engineering. This course teaches object-oriented programming using the Java language. It will emphasize problem-solving and algorithm development, and use hands-on experiences and examples so that students can apply programming tools and solve complex problems. Students can take this course as AP or Non-AP. AP Computer Science A is meant to be the equivalent of a first semester, college-level course in computer science. The course will prepare students for the Advanced Placement Computer Science A exam. The Non-AP course allows for more flexibility in content and pacing.

0471 Film as Literature (Elective) Grades 11, 12 Grades 11, 12

Prerequisite: Current English teacher recommendation

Following the PA Standards for English Language Arts, Film as Literature will explore the genre of film as a form of literature. The course will cover methods of developing storylines and scripts, acting techniques, methods of filming, and the changing landscape of cinema starting from the earliest silent films to the advanced technology utilized in the industry today. This study will be combined with literary elements evident in film, such as plot, characterization, symbolism, etc., highlighting the relationship between written literature and film. In addition to participating in class discussion, students will engage in various projects, critiques, presentations of topics in film, and script development.

0450 Journalism I (Elective) Grades 10, 11, 12

Prerequisite: Current English teacher recommendation

This course is designed to introduce students to the styles and practices of basic journalism with a focus on journalistic writing, interviewing, editing, photography, and newspaper design. Students examine journalistic concepts of newsworthiness, objectivity, responsibility, and brevity. Students will routinely analyze, synthesize and organize collected information and apply the learned principles to the production of the school newspaper.

0451 Journalism II (Elective) Grades 11, 12

Prerequisite: Journalism and current Journalism teacher approval

This course is designed for students who have completed Journalism and wish to continue the journalism experience. Students examine journalistic concepts of newsworthiness, objectivity, responsibility, and brevity. Students will routinely analyze, synthesize and organize collected information and apply the learned principles to the production of the school newspaper.

Prerequisite: Journalism, Journalism II, and current Journalism teacher approval

This course is designed for students who have completed Journalism and Journalism II and wish to continue the journalism experience. Students examine journalistic concepts of newsworthiness, objectivity, responsibility, and brevity. Students will routinely analyze, synthesize and organize collected information and apply the learned principles to the production of the school newspaper.

6344 Law Studies (Elective)**Grade 11, 12**

Students will explore the basic fundamentals of 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.

9511 Life Fitness**Grades 10, 11, 12**

Life Fitness will enable students to obtain the knowledge and skills necessary to develop and maintain a health-enhancing level of fitness and to increase physical competence, self-esteem and the motivation to pursue lifelong physical activity. Students will gain an understanding of the components of health-related fitness, training principles, and the benefits of being physically active. Students will participate in activities that will increase physical fitness levels and develop health practices that value physical activity and its contribution to lifelong fitness. (1 period/week - 1 year - .25 credit)

8131 Music 9**Grade 9 Required**

This course is designed to introduce students to basic music theory concepts, American music, world music, and the relation of music to the other art forms. Taught in a cooperative learning setting, students will learn the history of music from the medieval era to modern times. Students will also construct instruments and learn to play a simple melody on the instruments. (1 period/week :1 year -.25 credit)

8535 History of Rock & Roll**Grades 10, 11, 12**

This course is designed to acquaint students with the history of Rock & Roll music. Some topics to be covered will include identifying the roots of the genre, a decade by decade study and analysis of the various styles of rock music (1950's to present day), and in-depth discussions of selected artists and groups from each decade. Musical examples, video presentations, and student research projects will be integral components of this class.

8536H Music Theory I Honors**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 College Board Test and the end of this course. Students are responsible for all fees of this testing.**

8537H Music Theory II Honors**Grades 10, 11, 12**

This is a continuation of Music Theory. Students enrolled in this class will pursue more in-depth training in aural skills, orchestration, analysis, and 20th century compositional techniques. **Students will have the opportunity to take the AP College Board Test and the end of this course. Students are responsible for all fees of this testing.**

Students will develop core skills and strategies for managing their financial lives and gain experience working with “real-life” forms and statements in both digital and hard copy formats. They will evaluate and manage various payment methods including checking accounts, debit cards, credit cards, and loans and calculate the associated fees. Systems & procedures will be developed and utilized to assure financial records are accurate. The impact of a positive or negative credit history will be analyzed and students will establish a plan for achieving a positive score, as well as correcting a negative score, including ways to protect against identity theft. Students will learn how to finance a post-secondary education including loans, grants, and scholarships. Students will plan how to meet financial goals through various budgeting strategies as well as through savings and investment plans. Employment options will be evaluated and students will examine the impact of various career choices on their financial future. Students will analyze and calculate gross pay and net pay, including regular and overtime wages, commission, and piece rate. Many aspects of personal income tax will be studied and students will complete various tax forms including calculating taxable income and tax liability. They will also assess the purpose, source, and impact of various taxes. Students will consider an assortment of insurance products and compare and contrast various suppliers. Students leaving this class will have a better understanding of financial responsibility and the skills needed to successfully navigate their financial futures.

2433 Psychology I (Elective)**Grade 11, 12**

This course is designed to introduce students to the fascinating world of psychology: the scientific study of human growth, development and behavior, the effects of emotion on behavior, and how humans adapt and interact in a variety of environments. Students will study the psychological facts, principles and phenomena associated with each of the major subfields within psychology. They will also learn about the methods psychologists use to monitor and evaluate psychological processes. Topics will include but not limited to the following: research methodology, personality development and theories, development, biological bases of behavior, learning, social psychology, sensation, perception, states of consciousness, memory cognitive processes, intelligence and testing, motivation, emotion, mental illness, stress, and diversity.

0460 Public Speaking/Poetry (Elective)**Grades 10, 11, 12****Prerequisite: Current English teacher recommendation**

The first half of this course introduces both the theory and practice of communicating in interpersonal and public speaking situations. Students will cover the fundamentals of effective public speaking: preparation, pace, tone, facial and vocal expressiveness, and anxiety management. While developing and presenting original speeches, students will work toward acquiring proficiency in speaking publicly. The second half of this course concentrates on the analysis and study of poetry and its various forms. Emphasizing discussion and student presentation of poetry and poetic analysis, this course will provide students with an opportunity not only to comprehend poetry as a mode of expression but also to use it as one. Because this class is limited to 15 students, preference will be given to grades 11 and 12.

7159 Technology Exploration I**Grades 9-12**

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.

7221 Technology Exploration II**Grades 10-12**

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.

7222 Technology Exploration III**Grades 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.