## New Brighton Area High School New Brighton, Pennsylvania 15066

# 2023-2024 CURRICULUM HANDBOOK

### ADMINISTRATIVE PERSONNEL

Superintendent	Dr. Joseph A. Guarino		
High School Principal	Mr. Ryan L. Yates		
High School Assistant Principal	Mr. Robert A. Budacki, Jr.		
Director of Student Services	Mr. Nicholas Long		
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Counselor, Last Name M-Z	Ms. Michelle Hubbard		

Questions concerning scheduling can be addressed by contacting the counselors at the High School between 7:15 a.m. and 2:30 p.m. daily. 724-846-1050, ext. 305(Ms. Young) or 306 (Ms. Hubbard)

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# THE SCHEDULING PROCESS INTRODUCTION

The purpose of education is to prepare students for living in a complex world which is constantly being challenged by change. Careful planning of the total high school "program of study" is necessary to prepare students for life after graduation. Selection of courses should be based on the student's proven abilities, interests, aptitudes and ambitions for the future. Establishing goals and working toward achieving them must be the focus of all students.

The goal of the Guidance Department is to ensure that all students have sufficient credits for graduation and are registered for the proper subjects each year. It is the responsibility of *each student*, however, to monitor the quality and quantity of his/her credits.

The scheduling process is the shared responsibility of students, parents, teachers and counselors. All of these individuals contribute ideas and information which result in effective educational programs for students. **Counselors** are available to assist students, parents, and teachers in developing a sound educational program. **Parents** assist students in the selection process by discussing alternatives and by helping them to analyze their individual interests and goals. **Teachers** are available to discuss the curriculum with students in an effort to provide understanding of the many options that are available. **Students** are encouraged to seek their teachers' recommendations before enrolling in some courses so that they are appropriately placed and meet the prerequisites. Students must choose those subjects which give them the knowledge and skills that are necessary as determined by their current educational and career plans.

### PROCEDURAL REQUIREMENTS

- 1. Each student will participate in a group guidance scheduling orientation.
- 2. Each student must prepare a course selection sheet.
- 3. Each student must register for at least seven (7) credits.
- 4. Each student must meet course prerequisites before enrolling in a class.
- 5. Each registration for both required and elective subjects is a commitment to remain in that class for the entire term.
- 6. Forms will be collected in homeroom and returned to guidance.
- 7. If necessary, the Guidance Counselors will meet with students to further counsel and to advise all course selections and requests.

#### SCHEDULE CHANGES

Students are reminded that all course selections are final. No course changes will be made after July 31<sup>st</sup> without administrative approval. Honors and AP Course selections are final and will not be changed at any time. If the need arises for a schedule change due to failure in a class up to and including the mid-grade report sheet in September (4 1/2 weeks into the first nine week period), the following criteria will apply:

- 1. Documented evidence from the teacher that the student was putting forth effort in class and met with the teacher for extra help.
- 2. A meeting will be held with the parent and student, counselor, teacher, and principal.

\*NBHS reserves the right to make schedule changes based on need and individual circumstances.

**CLASS STATUS:** Class status is determined by the number of credits "earned" by the student and not homeroom designation.

# STUDENTS IN THE CLASS OF 2024, 2025, 2026, 2027

**Students** must earn at least 27 credits during their high school career in order to meet graduation requirements. As Freshmen, students must earn at least 7 credits to be recognized as a Sophomore, at least 14 credits by the end of the Sophomore year to be recognized as a Junior, and at least 21 credits by the end of their Junior year to be recognized as a Senior.

Diploma27 cre	edits (this includes credit for the Career Portfolio)
Senior21 cre	edits
Junior14 cre	edits
Sophomore7 cre	edits



### **GRADUATION REQUIREMENTS**

Students must earn at least 27 credits during their high school years in order to meet graduation requirements (See credit requirements below).

## CLASS OF: 2024, 2025, 2026, 2027

English	4	Electives6.5
Math*	4	Physical Education1
Social Studies	4	Computer/Business*1
Science*	4	Practical & Fine Arts* 1
Health	0.5	
Career Portfolio by	end of junior year1	
TOTALS	27	

Practical & Fine Arts include courses in Art, Family Consumer Science, Technology Education, and Band/Chorus.

Variations in the graduation requirements for BCCTC students are listed on Page 37-38. Variations in the graduation requirements for CCBC students are listed on Page 35.

Keystone Exams are the Pennsylvania standardized exams that measure student proficiency in the areas of Algebra, English Literature, and Biology. As a graduation requirement, all students are required to take the Keystone Exams until demonstrating proficiency in each of the three subjects. Alternate pathways to graduation are possible following completion of each of the three Keystone Exams only with administrative approval.

\*\*Students who do not score Proficient or Advanced will have access to subject-area remediation materials in order to prepare to retake a Keystone exam.

### Pathways to Graduation

In accordance with Pennsylvania's Act 158 of 2018, beginning with the graduating class of 2023, students must meet statewide graduation requirements in one of five ways. For all pathways, students must earn a passing grade in Algebra 1, Biology & English Literature 10. More information regarding the pathways can be found on the PDE's website using the following link: <u>Statewide High School Graduation Requirement</u>.

<u>Keystone Proficiency Pathway</u>- Score proficient or advanced on <u>each</u> Keystone Exam - Algebra I, Literature, and Biology (1500 or above)

<u>Keystone Composite Pathway:</u> Students must earn a combined score of 4452 or higher on the Algebra I, Literature, and Biology and score proficient on at least one exam and NOT score Below Basic on any exam.

#### CTE Concentrator Pathway- 1 piece of evidence needed

Only those students who attend the Beaver County Career & Technology Center are able to use this pathway for graduation. Students must earn at least 1 Industry-Based Certification, prove the ability to pass an industry-based competency assessment **OR** prove continued success in the CTE concentrator program of study by having a passing grade in your CTC program and earning proficiency or advanced on your competency task list.

<u>Alternate Assessment Pathway</u>: Students must earn a passing grade in Algebra 1, Biology & English Literature 10 **AND** also attain <u>one</u> of the following;

- o Earn a score listed below on one of the following exams:
  - -SAT 1010
  - -PSAT 970
  - -ACT 21
  - -ASVAB 31



<sup>\*</sup>The successful completion of two credits of Algebra, and one credit of Geometry, Biology, Computer/Business, and Practical & Fine Arts are required for graduation.

- Earn a score of 3 or above on an AP exam related to each Keystone subject exam in which the student did not achieve at least a proficient score
- Successful completion of a concurrent enrollment course in an academic content area associated with each Keystone Exam in which the student did not achieve at least a proficient score
- Successful completion of a pre-apprenticeship program
- o Get accepted into a 4 year college or university and enroll in coursework.

#### Evidence Based Pathway: 3 pieces of evidence needed

#### 1 or more pieces of evidence is needed from this section

- o Attainment of 3 or better on any AP exam
- o Successful completion of any concurrent or post-secondary course
- o Industry-recognized credentialization
- o Get accepted into a 4 year college or university and enroll in coursework.

#### No more than 2 pieces of evidence can be used from this section

- o Attainment of Proficient or Advanced on ANY Keystone Exam
- Successful completion of a Service Learning Project
- o Letter guaranteeing full-time employment or military enlistment upon graduation
- o Completion of an internship, externship or cooperative education program
- o Compliance with NCAA Division II academic requirements

The NCAA logo in the course description is important for college-bound student-athletes who want to compete in NCAA sports. These courses are designated as NCAA Core Courses and can be used in the calculation of the NCAA Core Course GPA by the NCAA Eligibility Center. Students who think they may participate in college athletics should discuss the process with their counselor as soon as possible. There are specific academic requirements that must be fulfilled in order to be eligible to play sports for the NCAA. Please visit www.ncaa.org to find the 'Guide for the College-Bound Student Athlete'.

#### **GRADE REPORTING**

Grades are reported by:

- 1. Marking Period Average Average of current grades earned during a 9 week period.
- 2. Cumulative Average Average of all final grades from grades 9, 10, 11, and 12 (used to determine class rank).
- 3. Cumulative GPA Cumulative average converted on a 4.0 scale (located on student transcript).

The calculation of a Weighted Course's Average is as follows:

- All final grades earned in an Honors course are multiplied by a weight of 1.1.
  - Example: Honors Algebra I; grade earned is 95 percent. Weight is 1.1, Weighted percentage = 104.5 (95 x 1.1 = 104.5 percent).
- All final grades earned in an AP Course are multiplied by a weight of 1.2.
  - Example: AP Biology; earned grade is 95 percent. Weight is 1.2, Weighted Percentage = 114 (95 x 1.2 = 114 percent).

Final grades of the Report Card will read the earned grade, but the Average will be calculated based on the weighted percentage.

Grading floor of 55% does not apply to the final marking period term for each course.

Students will have the option to take electives in which they receive a grade but it is not calculated toward their Average. Once all required credits have been earned, Computer/Business, Practical & Fine Arts, and first six (6.5) electives taken will automatically count toward Average. However, if a student takes an elective in addition to those required above, he/she will be allowed to request that it not count toward the Average. This request must be made at the time of scheduling and must be indicated in writing, with a parent signature, and turned in with the student's selection sheet.



#### **GRADING SCALE**

A 100% - 90% B 89% - 80% C 79% - 70% D 69% - 65% F 64% AND BELOW

#### **INCOMPLETE GRADES**

An incomplete grade for a nine-week period indicates that the work for that specific period has not been completed. For the first three grading periods, students have ten (10) school days from the end of the report period in which they must complete the make-up work. If a student has not completed the work in this period of time, the incomplete grade (I) will become a failing grade (F).

If a student receives an incomplete grade (I) during the final marking period and fails to complete the work required for the course by the last teacher day of the school year, he/she will not receive credit for the course.

Any student who fails a class must remediate that credit through summer school or by re-taking that course the following year in the classroom. Remediation on LOLA will only be permitted with administrative approval. Any remediated summer school or LOLA courses become a financial obligation to the student/family. Courses re-taken in the classroom will NOT be assessed a fee. In order to earn a diploma, all academic and financial obligations must be satisfied.



### NEW BRIGHTON AREA HIGH SCHOOL COURSE OFFERINGS

#### **ENGLISH**

English and Composition 9

Honors English and Composition 9

English and Literature 10

Honors English and Literature 10

English 11

Honors English 11

English 12

Honors English 12

AP English/Lit

Functional Reading

#### **MATHEMATICS**

Algebra I

Honors Algebra I

Algebra IA, Algebra IB

Algebra II

Honors Algebra II

Geometry

Honors Geometry

Trigonometry/Pre-Calculus

Honors Trigonometry/Pre-Calculus

Calculus

Honors Calculus

AP Calculus

Statistics

Applied Math

Functional Math

#### **SOCIAL STUDIES**

World Cultures

Honors World Cultures

US History and Government I

Honors US History and Government I

US History and Government II

Honors US History and Government II

**Economics** 

Psychology

AP European History

U.S. Law

Honors U.S. Law

#### **SCIENCE**

Science 9

Biology

Honors Biology & Lab

**Environmental Science** 

Chemistry

Honors Chemistry & Lab

**Physics** 

Honors Physics & Lab

AP Chemistry & Lab

AP Biology & Lab

Earth Science

Astronomy

Conceptual Chemistry

Conceptual Physics

#### **SCIENCE** (cont.)

Forensic Science

Anatomy & Physiology

STEM Engineering

Microbiology

#### **LANGUAGES**

Discovering French

French I, II

Honors French III

Honors French IV

Spanish I, II, III

Honors Spanish IV

## BUSINESS & INFORMATION TECHNOLOGY

Intro to Business

Sports & Entertainment Marketing

Yearbook - Full Year Course

Personal Finance

Accounting I

Accounting II

Accounting III

Accounting IV

Personal Keyboarding

Visual Basic

Web Page Design

Intro. C# Computer Language

Microsoft Office Applications I

Microsoft Office Applications II

Gaming

Video Production I

Video Production II

**NBHS TV** 

#### \*CHS COURSE OFFERINGS

8000 Intro to Business

8001 Personal Finance

8002 Accounting I

8003 Accounting II

8004 Accounting III

8005 Accounting IV

8006 Microsoft Office Applications I

8007 Microsoft Office Applications II

\*These courses are offered to all students and may count as a college in high school (CHS) course for interested students. See page 35 for more details.

## HEALTH AND PHYSICAL EDUCATION

Girls' Health

Boys' Health

Girls' Physical Ed.

Boys' Physical Ed.

Girls' Fitness Training

Boys' Fitness Training



#### **+TECHNOLOGY EDUCATION**

\*\*Engineering & Graphics

Engineering

Manufacturing Systems I

Manufacturing Systems II

Manufacturing Enterprise

Production Technology I

Production Technology II

Intro to Engineering

Woodworking Skills & Operations

\*\*Computer Aided Design (CAD) I

\*\*Computer Aided Design (CAD) II

\*\*Computer Aided Design (CAD) III

\*\*These courses will be accepted by Pittsburgh Technical College (PTC) as college level credits upon an interested student's acceptance & commitment to attend PTC.

## +FAMILY & CONSUMER SCIENCES

Foods and Nutrition I Foods and Nutrition II

**Culinary Cuisines** 

Introduction to Elementary Education

Elementary Education II

#### +ART

Foundation Art I

Foundation Art II

**Digital Foundations** 

**Advanced Drawing** 

**Advanced Painting** 

Introduction to Ceramics

Ceramics II

Ceramics III

#### **+MUSIC**

Jazz Band

Lionettes – 1<sup>st</sup> Semester Course

Instrumental Music (Band)

Honors Instrumental Music (Band)

Percussion Ensemble

Chorus

**Honors Chorus** 

Music Theory

Intro to Music Technology

Music Technology II

## GENERAL ELECTIVES/SPECIALIZED PROGRAMS

Career Skills

Performance Forensics (Mock Trial)

Honors Performance Forensics

SAT Prep

**Dual Enrollment** 

Lions On-Line Academy

Release

**English Language Instruction** 

Career Portfolio

CCBC Aviation Academy

**CCBC** Construction Academy

**CCBC** Criminal Justice

CCBC Health Academy

**CCBC STEM Academy** 

### BCCTC- Beaver County Career & Technology

#### Center

HVAC-R (Air Conditioning/ Refrigeration)

Collision Repair Technology

Auto Mechanics

**Business Information Systems** 

Carpentry

Commercial Art

Logistics and Materials Management

Cosmetology

**Electrical Occupations** 

Culinary

Graphic Arts/Printing

Greenhouse/Landscaping

Health Occupations

Machine Tool Technology

Masonry/Bricklaving

Welding

Vet Tech

#### **LOLA (Lions Online Academy)**



<sup>+</sup> denotes subject area of courses that will fulfill Practical & Fine Arts credit

#### **ENGLISH**

#### **GPA** requirements for students selecting the following subjects:

- For a student in a core English who plans to enroll in an Honors course, he/she must have a 90% average in core English.
- For a student in an Honors English who plans to continue in an Honors course, he/she must have a 82% average in Honors English.
- For a student in a core English who plans to enroll in AP English 12, he/she must have a 93% average in their core English.
- For a student in an Honors English 11 who plans to enroll in AP English 12, he/she must have an 85% average in their Honors English 11 course.
- A student may enroll in two (2) English classes simultaneously with teacher approval.

#### **State Testing Requirements that affect Graduation:**

At the completion of English Literature 10, students will be required to take the Keystone Literature Exam.

#### 3001 ENGLISH AND COMPOSITION 9



#### **GRADE 9**

1 year—1 credit

PREREQUISITE: None

This course will integrate the study of short stories, poems, podcasts, dramas, and novels with composition. Compositions will center on journals, extended paragraphs, and research writing. Students will read a variety of novels, plays, short stories, poetry, and nonfiction. This course will enable students to develop the foundation for writing and speaking in order to become independent communicators and critical thinkers.

#### 3002 HONORS ENGLISH AND COMPOSITION 9



#### GRADE 9

1 year—1 credit—1.1 weight

**PREREQUISITE**: See requirements at the beginning of the English section

This course will stress a Humanities approach to literature through philosophy, as well as a genre-based exploration of the novel, drama, short story and poetry. Composition skills will center on journals, extended paragraphs and reaction papers. Grammar instruction will be based on the correction of common errors in written and spoken English within the context of the course work. At least one oral presentation will be required of each student. Students are required to read one book during the summer and complete associated writing assignments. These assignments will be collected at the beginning of the school year and content in the first month of school will be based on those assignments. Failure to complete these requirements will result in a reduction of the first nine weeks grade. Students will not be permitted to drop this class due to failure to complete the summer reading assignments.

#### 3003 ENGLISH AND LITERATURE 10



#### **GRADE 10**

1 year—1 credit

PREREQUISITE: None

Engish 10 challenges all students to increase their abilities in reading, comprehending, analyzing, interpreting, and responding to various forms of literature. Students will read short stories, poetry, play scripts, not fiction writing from their textbooks and novels. Students will also be responsible for reading novels independently which will be assessed through the Accelerated Reader program. A majority of the writing assignments will focus on narrative, informative and persuasive essay writing skills. Speaking and listening skills will also be developed through discussions and presentations.

#### 3004 HONORS ENGLISH AND LITERATURE 10



#### **GRADE 10**

1 year—1 credit—1.1 weight

**PREREQUISITE**: See requirements at the beginning of the English section

This course is designed for students who will be expected to demonstrate their understanding of American literature and world literature by reading, interpreting, analyzing, and evaluating short stories, poetry, novels, biographies, and essays. They will exhibit this understanding through a variety of strategies including, but not limited to, compositions, oral presentations, individual projects, and activities within cooperative learning groups to illustrate that they are effective communicators, critical thinkers, and creative producers. Students are required to read one book during the summer and complete an associated writing assignment. This assignment will be collected at the beginning of the school year, and work in the first month of school will be based on these assignments. Failure to complete the summer assignment will result in a deduction of the first nine week grade. Students will not be permitted to drop the course due to failure to complete the summer reading assignment.



#### **3005** ENGLISH 11



**GRADE 11** 

1 year—1 credit

PREREQUISITE: None

This course is designed for students who will be expected to demonstrate their understanding of literature by reading, interpreting, analyzing, and evaluating a variety of American Literature selections. These selections range from early American Literature to more recent contemporary pieces. The selections will include short stories, poems, novels, dramas, podcasts, biographies, and essays. Students will demonstrate their understanding through tests, individual and group projects, and writing assignments.

#### 3006 HONORS ENGLISH 11



**GRADE 11** 

1 year—1 credit—1.1 weight

**PREREQUISITE**: See requirements at the beginning of the English section

This rigorous curriculum demands members of the class to demonstrate comprehension and synthesis of the content material in the various literary classifications through analytical responses, and compositions. The lecture method, cooperative learning, and individual study will be utilized to achieve these outcomes. Through these demonstrations, class members will show that they are effective learners, goal setters, and critical thinkers. Students are required to read one book during the summer and complete associated writing assignments. Assignments will be collected at the beginning of the school year and work in the first month of school will be based on these assignments. Failure to do so will result in a reduction of the first nine weeks grade. Students will not be permitted to drop this course due to failure to complete the summer reading assignments.

#### 3007 ENGLISH 12



**GRADE 12** 

1 year—1 credit

PREREQUISITE: None

This course contains literature and composition based on the study and interpretation of British short stories, essays, poetry, drama, and on current non-fiction and fiction pieces, as well. Students will also create various writing samples, group projects and oral presentations. They will show that they are effective communicators and collaborative workers.

#### 3008 HONORS ENGLISH 12



**GRADE 12** 

1 year—1 credit—1.1 weight

**PREREQUISITE**: See requirements at the beginning of the English section

Honors English 12 is a full-year course of composition, vocabulary enhancement, independent reading, and British literature study. Students will think critically and communicate effectively through their contributions in class discussions, individual and group projects, tests, and activities. In addition, students will research, organize, and compose a variety of written works and long-term projects. Students are required to read one book during the summer and complete associated writing assignments. These assignments will be collected at the beginning of the school year, and content in the first weeks of school will be based on these assignments. Failure to complete these requirements will result in a reduction of the first nineweek grade. Students will not be permitted to drop this class due to failure to complete the summer reading assignments.

### 3009

# AP ENGLISH 12 ENGLISH LITERATURE AND COMPOSITION

GRADE 12

1 year—1 credit—1.2 weight

**PREREQUISITE**: See Requirements at the beginning of the ENGLISH section

The AP Enlish Literature and Composition course focuses on reading, analyzing, and writing about imaginative literature (fiction, poetry, drama) from various periods. Students engage in close reading and critical analysis of imaginative literature to deepen their understanding of the ways writers use language to provede both meaning and pleasure. As they read, students consider a work's structure, style, and themes, as well as its use of figurative language, imagery and symbolism. Writing assignments include expository, analytical, and argumentative essays that require students to analyze and interpret literacy works. Students are required to read two books during the summer and complete associated writing assignments. Assignments will be collected at the beginning of the school year and work in the first month of school will be based on these assignments. Failure to do so will result in the reduction of the first nine weeks grade. Students will not be permitted to drop the course due to failure to complete the summer assignments.

Students enrolled in this class are encouraged to take the AP English Literature exam in May. The exam cost is the financial responsibility of the student.



#### **MATHEMATICS**

All students, as a requirement for graduation, must pass, two (2) credits of Algebra and one credit of Geometry. A student may enroll in two (2) math courses simultaneously with teacher approval.

#### **GPA** requirements for students selecting the following subjects:

- For a student in a core Math who plans to enroll in an Honors course, he/she must have a 90% average in core Math.
- For a student in a core Math who plans to enroll in AP Calculus, he/she must have a 93% average in core Math.
- For a student in an Honors Math who plans to continue in an honors course, he/she must have a 82% average in Honors Math.
- For a student in an Honors Math who plans to enroll in AP Calculus, he/she must have an 85% average in Honors Math.
- For a student in Honors Algebra I who plans to enroll in Honors Geometry and Honors Algebra II must have a 90% average in Honors Algebra I.

#### **State Testing Requirements that affect Graduation:**

At the completion of Algebra I or Algebra IB, students will be required to take the Keystone Algebra Exam.

#### 3101 ALGEBRA I



#### **GRADE 9**

1 year—1 credit

**PREREQUISITE**: 8<sup>th</sup> grade teacher recommendations in conjunction with data including grades earned in 8<sup>th</sup> grade math, PVAAS projection data, and student performance on the 8<sup>th</sup> grade PSSA Exam.

Algebra 1 provides a formal development of the algebraic skills and concepts necessary for students to succeed in advanced courses. In particular, this course provides for the use of algebraic skills in a wide range of problem-solving situations. The concept of function is emphasized throughout the course. Topics include: (1) operations with real numbers, (2) linear equations and inequalities, (3) relations and functions, (4) operations with polynomials, (5) data analysis.

#### 3102 HONORS ALGEBRA I



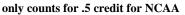
#### GRADE 9

1 year—1 credit-1.1 weight

**PREREQUISITE**: 8<sup>th</sup> grade teacher recommendations in conjunction with data including grades earned in 8<sup>th</sup> grade math, PVAAS projection data, and student performance on the 8<sup>th</sup> grade PSSA Exam.

Honors Algebra I will cover the same material as Algebra I but at a more rapid pace and at a greater depth.

#### 3103 ALGEBRA IA





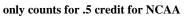
#### **GRADE 9**

1 year—1 credit

**PREREQUISITE**: 8<sup>th</sup> grade teacher recommendations in conjunction with data including grades earned in 8<sup>th</sup> grade math, PVAAS projection data, and student performance on the 8<sup>th</sup> grade PSSA Exam.

Algebra IA is the first part of a two year course which will cover all topics in a traditional one year Algebra I course. Algebra IA covers variables, expressions, properties of real numbers, solving and graphing linear equations and inequalities, reading and interpreting word problems, and understanding functional relationships using graphs, charts, and tables. Writing and solving system of equations and inequalities.

#### 3104 ALGEBRA IB





#### **GRADE 10**

1 year—1 credit

**PREREQUISITE:** Successful completion of Algebra IA This course is the second part of a two year sequence for Algebra I. It is a two year couse which will cover all topics in a traditional one year Algebra I course. Algebra IB covers system of equations and inequalities, representing data and statistics, applying exponents rules, adding subtracting, multiplying polynomials, reading and interpreting word problems, and factoring quadratic equations.

#### ALGEBRA II 3105



GRADES 10, 11, 12

1 year—1 credit

**PREREQUISITE**: Successful completion of previous math and teacher approval.

Algebra II is a course that reviews and enriches Algebra I concepts during the first semester. The second semester, students will learn and discover more in-depth concepts of functions. Topics include: relations, functions, equations, inequalities, polynomials, quadratics, and algebraic fractions. Students will use problem-solving techniquest to solve problems and apply those techniques to real world situations.

#### **HONORS ALGEBRA II** 3106



GRADES 9, 10, 11, 12

1 year—1 credit—1.1 weight

**PREREQUISITE**: See requirements at the beginning of the Math section and/or teacher approval.

Honors Algebra II is a course designed for those students attending a four-year university and major in a science/math field. Honors Algebra II concepts include: Polynomial Division, Quadratics, Families of Functions, Simplifying Radicals, Complex Numbers, Rational Functions, and Equations of A Circle. More emphasis will be placed on independent learning and discovery

#### **GEOMETRY** 3107



**GRADES 10, 11** 

1 year—1 credit

**PREREQUISITE**: Successful completion of previous math and teacher approval.

Geometry is a course involving the study of and the relationships that exist in various geometric shapes including lines, angles, triangles, polygons and circles. Emphasis will be placed on logical reasoning and problem solving. Algebra will be integrally used within the course to maintain the students' algebra skills.

#### **HONORS GEOMETRY** 3108



GRADES 9, 10, 11

1 year—1 credit—1.1 weight

**PREREQUISITE**: See requirements at the beginning of the MATH section and/or teacher approval.

Honors Geometry will cover the same geometric concepts as Geometry but at a more rapid pace and at a greater depth. In addition, more emphasis will be placed on independent learning and discovery. This course is essential for those students planning a math/science degree at a four-year college.

#### TRIGONOMETRY/PRE-CALCULUS 3109



GRADES 9, 10, 11, 12

1 year—1 credit—1.0 weight

**PREREQUISITE**: Successful completion of Algebra I, II, and Geometry and teacher approval.

This is a course in which the trigonometric functions are developed from the wrapping function and the unit circle. There is an emphasis on functions and their behavior. Students will use problem-solving techniques to solve problems and apply those techniques to real world situations in both individual and group settings. Also, advanced topics from Algebra will be dealt with during the first semester.

#### 3110 **HONORS TRIGONOMETRY/ PRE-CALCULUS**



GRADES 9, 10, 11, 12

1 year—1 credit—1.1 weight

PREREQUISITE: Successful completion of Algebra I, Algebra II and Geometry and teacher approval.

This course will cover the same material as Trigonometry/Pre-Calculus but at a more rapid pace and at greater depth. In addition, this course will also cover Arithmetic/Geometric sums and a series, as well as limits and their properties.

#### CALCULUS 3111



GRADES 10, 11, 12

1 year—1 credit

PREREQUISITE: Students must successfully complete Trigonometry/Pre-Calculus

Topics include: limits, functions and graphs, derivatives, and applications of derivatives. Maxima-minima problems along with rates of change will also be explored. The use of graphing calculators will enhance the course enabling the student to analyze and interpret results. The students will be assessed using homework assignments and traditional exams.

#### 3112 **HONORS CALCULUS**



GRADES 10, 11, 12

1 year—1 credit—1.1 weight

**PREREQUISITE**: Students must successfully complete Trigonometry/Pre-Calculus and teacher approval.

The first semester explores some of the concepts of discrete mathematics. The second semester provides the student with an introduction to the study of calculus. Students will determine maximum and minimum points on a graph and interpret the results in problem situations. Students will analyze rational, radical and transcendental functions in both individual and group settings. Assessments will be made through oral and written evaluations.



#### AP CALCULUS (Calculus AB) 3113



**GRADES 11. 12** 

1 year—1 credit—1.2 weight

**PREREQUISITE**: See requirements at the beginning of the MATH section. Successful completion of Trigonometry/Pre-calculus and teacher approval.

Advanced Placement Calculus is our most rigorous course offering and should be taken by any student anticipating a career in engineering (or related field). It is a fast-paced curriculum that deals in depth with applications of different calculus. These topics include, but are not limited to: Limits, differentiation, curve-sketching, transcendental functions, maxima-minima problems, and related rates. The integral calculus portion of the course deals with differential equations the definite integral, area between curves, volumes by revolving and slicing, volumes modeled by washers and cylinders, and the natural logarithm (differentiating and integrating). Students enrolled in this class are encouraged to take the AP Calculus exam in May. The exam cost is the financial responsibility of the student.

## 3114 STATISTICS MCAA



**GRADE 12 ONLY** 

1 year—1 credit

**PREREQUISITE**: Successful completion of Algebra II Statistics acquaints students with major concepts and tools for collecting, analyzing and drawing conclusions from data. Students will frequently work on projects involving hands-on gathering and analysis of real world data. Computers and calculators will allow students to focus deeply on concepts involved in statistics. This course is recommended for students who anticipate research as part of their college studies and work experience. An introduction to probability will also be taught in this course.

#### 3115 **APPLIED MATH**

**GRADE 12 ONLY** 

1 year—1 credit

**PREREQUISITE**: A student must have three math credits to be eligible to take applied math.

This course emphasizes the applications of mathematical methods and concepts to a variety of real life situations. At the conclusion of the course, students will demonstrate their ability to calculate their wages, file tax returns, purchase a car, buy a house, along with other money management techniques.

Students working independently and in groups will gather and interpret information from a variety of resource materials and then communicate their discoveries to their fellow students. Students will be assessed through the use of teacher observations, writing samples, completed applications, and testing.



### **SOCIAL STUDIES**

#### **GPA** requirements for students selecting the following subjects:

- For a student in a core Social Studies who plans to enroll in an Honors course, he/she must have a 90% average in core Social Studies.
- For a student in a core Social Studies who plans to enroll in AP European History, he/she must have a 93% average in core Social Studies.
- For a student in an Honors Social Studies who plans to continue in an Honors course, he/she must have a 82% average in Honors Social Studies.
- For a student in an Honors World Cultures who plans to enroll in AP European History, he/she must have an 85% average in Honors World Cultures.

#### 3201 US HISTORY AND GOVERNMENT I



#### GRADE 9

1 year—1 credit

**PREREQUISITE**: Successful completion of 8th grade Social Studies.

This course begins with Civil War Reconstruction and runs up to the eve of World War Two. The Constitution and American Government will be examined within the context of US History. The students will demonstrate a basic knowledge of US History of this era and the Constitution with special emphasis on the growth and changes of the US Constitution and Government of Students will read, interpret, analyze, and this period. synthesize historical documents and materials. Cause and effect relationships among historical events will be explored throughout the course as well as the impact of historical events on the world today. A variety of resources will be used in this course both print and non-print (electronic). Students will be routinely assessed through teacher observation, written tests and quizzes, group and individual projects, written exercises, multi-media projects, maps and drawings, political cartoons, comparisons, and debates.

## 3202 HONORS US HISTORY AND GOVERNMENT I



GRADE 9

1 year—1 credit—1.1 weight

**PREREQUISITE**: Successful completion of 8<sup>th</sup> Grade Social Studies.

*Teacher Recommendation from 8<sup>th</sup> Grade also needed.* This course begins with Civil War Reconstruction and runs up to the eve of World War Two. The Constitution and American Government will be examined within the context of US History. The students will demonstrate a basic knowledge of US History of this era and the Constitution with special emphasis on the growth and changes of the US Constitution and Government of Students will read, interpret, analyze, and this period. synthesize historical documents and materials. Cause and effect relationships among historical events will be explored throughout the course as well as the impact of historical events on the world today. A variety of resources will be used in this course both print and non-print (electronic). Students will be routinely assessed through teacher observation, written tests and quizzes, group and individual projects, written exercises, multi-media projects, maps and drawings, political cartoons, comparisons, and debates. A special emphasis placed on analyzing primary sources through DBQ's. Several novels will be read and analyzed.

### 3203 US HISTORY AND GOVERNMENT II



GRADE 10

1 year—1 credit

PREREQUISITE: None

This course continues topics from the previous course picking up at World War Two and continuing to the modern day. The Constitution and American Government will be examined within the context of US History. The students will demonstrate a basic knowledge of US History of this era and the Constitution with special emphasis on the growth and changes of the US Constitution and Government of this period. Students will read, interpret, analyze, and synthesize historical documents and materials. Cause and effect relationships among historical events will be explored throughout the course as well as the impact of historical events on the world today. A variety of resources will be used in this course both print and non-print (electronic). Students will be routinely assessed through teacher observation, projects, written exercises, tests and quizzes, political cartoon, comparisons, and debates.

## 3204 HONORS US HISTORY AND GOVERNMENT II



GRADE 10

1 year—1 credit—1.1 weight

**PREREQUISITE**: See requirements at the beginning of the Social Studies Section.

This course continues topics from the previous course picking up at World War Two and continuing to the modern day. The Constitution and American Government will be examined within the context of US History. The students will demonstrate a basic knowledge of US History of this era and the Constitution with special emphasis on the growth and changes of the US Constitution and Government of this period. Students will read, interpret, analyze, and synthesize historical documents and materials. Cause and effect relationships among historical events will be explored throughout the course as well as the impact of historical events on the world today. A variety of resources will be used in this course both print and non-print (electronic). Students will be routinely assessed through teacher observation, projects, written exercises, tests and quizzes,



political cartoon, comparisons, and debates. Students will be required to read the assigned book over the summer and complete the associated tasks. Assignments will be collected during the first week of school. Failure to complete those assignments will result in a reduction of the first nine weeks grade.

#### 3205 WORLD CULTURES



#### **GRADE 11**

1 year—1 credit

**PREREQUISITE**: None

The World Cultures course is designed to encourage students to develop learning, thinking, and communicative skills through the study of various cultures. Students will analyze and evaluate information and develop a respect for different belief/value systems. Students will also analyze the effects of geography on the development of a culture or civilization. Through the interpretation and evaluation of historic events, students will become aware of cause/effect relationships that influence their lives. The students will demonstrate learning competencies by sharing ideas with each other, contributing to group projects, preparing research papers that defend their conclusions, and teaching within small groups and in a class setting. Students will take on the role of problem finders and solvers by creating solutions.

### 3206 HONORS WORLD CULTURES



#### GRADE 11

1 year—1 credit—1.1 weight

**PREREQUISITE**: See requirements at the beginning of the Social Studies section. Teacher recommendation.

The outcomes for this course are similar to those stated in World Cultures except that students will demonstrate a deeper understanding of problems and solutions through debate and active participation. Assessments will include oral and written assessments, teacher observation, and student conferencing. Failure to complete will adversely affect first nine weeks grade. A special emphasis placed on analyzing primary sources through DBQ's. Several novels will be read and analyzed.

#### 3207 U.S. LAW



#### **GRADE 12**

1 year—1 credit

PREREQUISITE: None

Introduction to Law is designed to engage high school students in a critical examination of their legal responsibilities and rights. The ultimate goal of the program is to provide high school students with a sense of belonging in society through empowerment with knowledge of the law. By providing students with a non-adversarial view of the law, Intro to Law works to impart an understanding of the fundamental principles of authority, fairness, justice and responsibility that underlie our legal system. The class will begin with an introduction into the legal system. From there we will examine the four main types of law: Criminal Law, Constitutional Law-Individual Rights,

Consumer Law and Civil Law. We will also explore a variety of careers that are related to the field of law, such as: attorneys, police officers, corrections officers, judges and parole officers just to name a few. The class will consist of work from the book, role playing-mock trials, public speaking presentations, research based activities and a variety of other activities. We will attempt to have a wide range of local law and law enforcement experts come into the class as guest speakers. This class is designed to introduce students to their legal rights and responsibilities.

#### 3208 HONORS U.S. LAW



#### **GRADE 12**

1 year—1 credit—1.1 weight

**PREREQUISITE**: See requirements at the beginning of the Social Studies Section.

Honors U.S. Law is designed to engage high school students in a critical examination of their legal responsibilities and rights. Students will think critically and communicate effectively through their contributions in class discussions, individual and group projects, tests, and debates. In addition, students will research, organize, and compose a variety of written works and long-term projects. Students will demonstrate a deeper understanding of problems and solutions through debate and active participation. The ultimate goal of the course is to provide high school students with a sense of belonging in society through empowerment with knowledge of the law.

#### 3209 AP EUROPEAN HISTORY



#### GRADE 12

1 year—1 credit—1.2 weight

**PREREQUISITE**: See requirements at the beginning of the Social Studies section. Teacher recommendation.

This course begins with an examination of conditions that occurred prior to the 15th century including: The plague, the Great Schism, and the 100 Years War. The course will cover various topics in European History including the Renaissance, Reformation, Enlightenment, and Scientific Revolution, Elizabethan England, Napoleonic France, along with the development of national cultures, the evolution of philosophical, political, sociological, and ideological theories, religious changes, and changing governmental structures. This course requires major analysis of historical documents, ongoing outside reading and writing, and continued higher level in-class situations.

Students enrolled in this class are encouraged to take the AP European History exam in May. The exam cost is the financial responsibility of the student.



#### 3210 ECONOMICS



GRADES 11 & 12 1 semester—.5 credit PREREOUISITE: None

This course is designed to gives students a general overview of Economics and the foundation of the American Government. **Economics** will provide the students with a basic understanding of the main concepts, theories, and decisions involved in Economics. Students will be introduced to how economists study the choices we make in order to meet our needs. Students will also learn how the concepts of Economics affect the decisions that individuals, businesses, and government make. Finally, the students will apply the concepts learned in the course and apply them to real world situations to gain a practical use of Economics.

#### 3211 PSYCHOLOGY



#### **GRADES 11 & 12**

1 semester—.5 credit PREREQUISITE: None

This is an introductory survey course, designed to provide a challenging, rigorous, enlightening and rewarding experience and is designed to give students an introductory overview of each discipline. The students will spend nine weeks studying each social science. **Psychology** will explore the history, notable theorists, research methodology, ethics, subfields, classic experiments, memory, thinking, personality, states of consciousness, learning, and conditioning, motivation, emotion, and other topics. Psychology is a valuable area of study for all students having practical application in any career and within our daily lives.

#### *SCIENCE*

• All students will need to successfully complete either Honors Biology/Lab or Biology to earn a NBHS diploma.

#### Science course GPA Requirements for students selecting the following Science subjects:

- Students in a core Science who plan to enroll in an Honors Science course must have at least a 90% average.
- Students in a core Science who plan to enroll in an AP course must have at least a 93% average.
- Students in an Honors Science who plan to enroll in other Honors Science courses must have at least an 82% average.
- Students in an Honors Science who plan to enroll in an AP course must have at least an 85%.
- Teacher recommendation is also a consideration for Honors/AP Placement.

#### **State Testing Requirements that affect Graduation:**

At the completion of **Biology**, students will be required to take the Keystone Biology Exam.

#### 3401 **SCIENCE 9**



#### **GRADE 9**

1 year – 1 credit

**PREREOUISITE**: None

This is an introductory science course designed to prepare students for the rigors of other science courses in the high school as they transition. Topics covered in this course include: Nature & Process of Science, Characteristics of Life, Ecology, Basic Biochemistry and cells. Students will be required to take notes, pass assessments, create projects, and complete lab experiments including dissections and using microscopes.

#### 3402 **BIOLOGY**



#### GRADE 10

1 year – 1 credit

PREREQUISITE: Science 9

**Keystone Biology** topics that are covered in the course include:

- Describe relationships between structure and function at biological levels of organization.
- Identify and describe the cell structures involved in processing energy.
- Identify and describe how organisms obtain and transform energy for their life processes.
- Identify and describe the cell structures involved in transport of materials into, out of and throughout a cell.
- Explain mechanisms that permit organisms to maintain biological balance between their internal and external environments.
- Describe the three stages of the cell cycle.
- Explain how genetic information is inherited.
- Compare Mendelian and non-Mendelian patterns of inheritance.
- Explain the process of protein synthesis.
- Explain how genetic information is expressed.
- Apply scientific thinking, processes, tools and technologies in the study of genetics.
- Explain the mechanisms of evolution.
- Analyze the sources of evidence for biological evolution.

## 3403 HONORS BIOLOGY & LAB



#### **GRADES 9 & 10**

#### 1 year - 1 credit - 1.1 weight - 7 periods per week **PREREOUISITE**: Teacher recommendation

Students will participate in laboratory exercises, small group activities and classroom discussions.

**Keystone Biology** topics that are covered in the course include:

- Describe relationships between structure and function at biological levels of organization.
- Identify and describe the cell structures involved in processing energy.
- Identify and describe how organisms obtain and transform energy for their life processes.
- Identify and describe the cell structures involved in transport of materials throughout the cell.
- Explain the mechanisms that permit organisms to maintain biological balance between internal and environments.
- Describe the stages of the cell cycle.
- Explain how genetic information is inherited.
- Compare Mendelian and non-Mendelian patterns of inheritance.
- Explain the process of protein synthesis.
- Explain how genetic information is expressed.
- Apply scientific thinking, processes, tools, and technologies in the study of genetics.
- Explain the mechanisms of evolution.
- Describe interactions and relationships in the ecosystem.



#### 3404 AP BIOLOGY & LAB



#### **GRADES 11 & 12**

1 year – 1 credit – 1.2 weight – 8 periods per week PREREQUISITES: Successful completion of Chemistry or Honors Chemistry.

The AP Biology course is designed to enable students to develop advanced inquiry and reasoning skills, such as designing a plan for collecting data, analyzing data, applying mathematical routines, and connecting concepts in and across domains. The result will be readiness for the study of advanced topics in subsequent college courses. The key concepts and related content that define the AP Biology course and exam are organized around underlying principles called the big ideas, which encompass the core scientific principles, theories and processes governing living organisms and biological systems.

Big Idea 1: Evolution

The process of evolution drives the diversity and unity of life.

Big Idea 2: Cellular Processes: Energy and Communication Biological systems utilize free energy and molecular building blocks to grow, to reproduce, and to maintain dynamic homeostasis.

Big Idea 3: Genetics and Information Transfer

Living systems store, retrieve, transmit, and respond to information essential to life processes.

Big Idea 4: Interactions

Biological systems interact, and these systems and their interactions possess complex properties.

Students enrolled in this class are highly encouraged to take the AP Biology exam in May. The exam cost is the financial responsibility of the student.

#### 3405 CHEMISTRY



GRADES 10, 11, 12

1 year - 1 credit - 1.0 weight

**PREREQUISITES:** Successful completion of Algebra I. PA Core Chemistry topics that are covered in the course include:

- Describe observable physical properties of matter.
- Explain the composition of matter.
- Explain the relationship between physical properties and the structure of matter.
- Explain the formation of compounds using bonding theories.
- Explain the trends of the periodic table.
- Predict the behavior of gases using the gas laws.
- Describe factors that affect chemical reaction rates.

#### 3406 HONORS CHEMISTRY & LAB



#### GRADES 10, 11, 12

1 year – 1 credit – 1.1 weight – 7 periods per week PREREQUISITES: See Science requirements and the completion of Biology and Algebra I.

PA Core Chemistry topics that are covered in the course include:

- Describe observable physical properties of matter.
- Explain the composition of matter.
- Explain the relationship between physical properties and the structure of matter.
- Explain the formation of compounds using bonding theories.
- Explain the trends of the periodic table.
- Predict the behavior of gases using the gas laws.
- Describe factors that affect chemical reaction rates.

#### 3407 AP CHEMISTRY & LAB



#### **GRADES 11 & 12**

1 year – 1 credit – 1.2 weight – 8 periods per week

PREREQUISITES: Successful completion of

Chemistry or Honors Chemistry.

AP Chemistry will focus on these six "Big Ideas."

- Quantities in chemistry are expressed at both the macroscopic and atomic scale. Explanations, predictions, and other forms of argumentation in chemistry require understanding the meaning of these quantities, and the relationship between quantities at the same scale and across scales.
- Properties of substances observable at the macroscopic scale emerge from the structures of atoms and molecules and the interactions between them. Chemical reasoning moves in both directions across these scales. Properties are predicted from known aspects of the structures and interactions at the atomic scale. Observed properties are used to infer aspects of the structures and interactions.
- At its heart, chemistry is about the rearrangement of matter. Understanding the details of these transformations requires reasoning at many levels as one must quantify what is occurring both macroscopically and at the atomic level during the process. The reasoning can be as simple as monitoring amounts of prducts made or as complex as visualizing the intermolecular forces among the species in a mixture. The rate of a transformation is also of interest, as particles must move and collide to initiate reaction events.
- Energy has two important roles in characterizing and controlling chemical systems. The first is accounting for the distribution of energy among the componenents of a system and the ways that heat exchanges, chemical reactions, and phase transitions redistribute this energy. The second is in considering the enthalpic and entropic driving forces for a chemical process. These are closely related to the dynamic equilibrium present in many chemical systems and the ways in which changes in experimental conditions alter postitions of these equilibria.

Students enrolled in this class are encouraged to take the AP Chemistry exam in May. The exam cost is the financial responsibility of the student.



#### 3408 ANATOMY & PHYSIOLOGY



**GRADE 11 & 12** 

1 year - 1 credit - 1.0 weight

**PREREQUISITE:** Successful completion of a Chemistry course.

The following are the Common Core & Keystone topics that are covered in the course:

- Identify the components of each human body system.
- Explain the form and function of body tissues and organs.
- Explain the nature of the human body as a whole unit, functioning with systems working together as one.
  - Discuss coordination and control of the human body.
  - Identify structural components that allow for proper function.

#### 3409 PHYSICS



**GRADES 11 & 12** 

1 year - 1 credit - 1.0 weight

**PREREQUISITE:** Successful completion of Algebra I. **PA Core Physics** topics that are covered in the course include:

- Recognize basic energy types and source and describe how energy can be changed from one form to another.
- Identify and describe different types of force and motion, and the interaction between force and motion.

#### 3410 HONORS PHYSICS & LAB



**GRADES 11 & 12** 

1 year – 1 credit – 1.1 weight – 7 periods per week PREREQUISITES: Successful completion of Algebra I & Algebra II.

PA Core Physics topics covered in the course include:

- Recognize basic energy types and sources.
- Describe how energy is conserved, but can be changed from one form to another.
- Identify and describe different types of force and motion, and the interaction between force and motion.

#### 3411 ENVIRONMENTAL SCIENCE



**GRADES 11 & 12** 

1 semester – .5 credit

**PREREQUISITE:** Successful completion of a Biology course.

This course will involve investigation, research, and discussion of subjects from the discipline of Environmental Science. Topics covered include environmental policies, Earth's systems, ecology, endangered species, water, pollution and climate change. We will focus on how humans are affecting their habitats in both positive and negative ways.

#### 3412 EARTH SCIENCE



**GRADES 11 & 12** 

1 semester – .5 credit PREREOUISITE: None

Welcome to Earth Science – the study of the world under your feet!

This course will use hands-on experimentation, activities, completion of projects, and direct instruction. You will be invested in learning the 'how' and 'why', not just the 'what' of science. Throughout the course, you will gain an appreciation of how Earth Science is relevant in your everyday life. Topics include these 3 main branches of Earth Science:

- Geology
- Oceanography
- Meteorology

#### 3413 CONCEPTUAL PHYSICS



GRADES 10, 11, 12

1 semester – .5 credit

**PREREQUISITE:** Successful completion of Biology or Honors Biology. Students who have taken Physics or Honors Physics are not eligible to take this course.

This course provides a conceptually-based exposure to the fundamental principles and processes of the physical world. Topics include basic concepts of motion, forces, energy, heat, electricity, magnetism, and the structure of matter and the universe. Upon completion, students should be able to describe examples and applications of the principles studied. Laboratory experiments and computer-based exercises will enhance the understanding of basic physical principles and applications.

#### 3414 CONCEPTUAL CHEMISTRY



GRADES 10, 11, 12

1 semester - .5 credit

**PREREQUISITE:** Successful completion of Biology or Honors Biology. Students who have taken Chemistry or Honors Chemistry are not eligible to take this course.

This course provides a conceptually-based exposure to the fundamental principles and processes of the chemical world. Topics include atomic structure, bonding, periodic table, physical and chemical properties. Upon completion, students should be able to describe examples and applications of the principles studied. Laboratory experiments and computer-based exercises will enhance the understanding of basic physical principles and applications.



#### 3415 STEM ENGINEERING



**GRADES 11 & 12** 

1 semester – .5 credit

**PREREQUISITE:** Successful completion of a Chemistry course.

. This course is intended for any student considering a career in engineering. The major focus of this science-based course is to expose students to the process, research, analysis, teamwork communication methods, and impacts of engineering design. Students will learn, design and present information about the following engineering disciplines: Civil, Electrical, Chemical, Mechanical, Industrial and Process Engineering. Students must be willing to problem solve, technically write and give presentations both inside and outside of the classroom setting.

#### 3416 FORENSIC SCIENCE



GRADES 11 & 12

1 semester – .5 credit

PREREQUISITE: Successful completion of a

Chemistry course.

This course presents scientific concepts, processes, and thinking that allow students to draw necessary conclusions about evidence and other findings. Students must be able to complete laboratory experiments, make calculations, and create written reports. The following topics will be covered in this class: data analysis, types of evidence, hair analysis, fingerprints, blood, DNA, drugs, handwriting analysis, forgery, bone analysis, and time of death calculations.

#### 3417 ASTRONOMY



GRADES 11 & 12

1 semester— .5 credit PREREQUISITE: None

This course will explore both the fundamental knowledge of our cosmos and the current technologies that are changing those fundamental ideas due to "seeing further back in time" with bigger telescopes. We will use the NBHS Planetarium to observe the changing seasonal sky patterns. Students will be expected to take notes, do presentations, complete lab activities, and turn in weekly current events. Apps needed for class include Schoology, Newsela, Edpuzzle and Quizlet.

### **3418 MICROBIOLOGY**



**GRADES 11 & 12** 

1 semester—.5 credit

**PREREQUISITE**: Biology and Chemistry

This course covers principles of microbiology with emphasis on microorganisms and human disease. Topics include an overview of microbiology and aspects of medical microbiology, identification and control of pathogens, disease transmission, host resistance, and immunity. Upon completion, students should be able to demonstrate knowledge of microorganisms and the disease process as well as aseptic and sterile techniques.

#### 6300 DISCOVERING FRENCH

GRADES 9, 10, 11, 12 1 semester—.5 credit PREREQUISITE: None

In this introductory course, we'll explore French culture by discussing popular tranditions, examining art and fashion, listening to music, watching movies & tv shows, and preparing food. We'll cover all the regions of France-the #1 travel destination in the world! Students can enroll in this course to try out learning a language, or take this course as a complement to their language study.

#### 6301 FRENCH I

GRADES 9, 10, 11, 12

1 year—1 credit

PREREQUISITE: None

Students in French I will compare cultures, discriminate and repeat sounds in French pronunciation, read and interpret, write imitatively, analyze both spoken and written phrases, and communicate effectively at a novice level. Using strategies like collaborative learning, students will role play, present dialogues, view videotapes, listen to audiotapes, and write short compositions. They will demonstrate competencies by participating in small group conversation, critique of written material, and response to verbal communication by the teacher and native speakers on audio tapes.

#### 6302 FRENCH II

GRADES 10, 11, 12

1 year—1 credit

**PREREQUISITE**: French I and teacher approval.

Students will continue to utilize strategies and demonstrate the outcomes described in French I at an intermediate mastery level. Students will be expected to think critically in the target language and analyze and interpret more proficiently in both written and spoken French. Students will demonstrate competency by participation in guided conversation, critique of written material and response to explanations and directions in the target language.

#### 6303 HONORS FRENCH III

**GRADES 11 & 12** 

1 year—1 credit

**PREREQUISITE**: C or better in French II and teacher approval.

French III students further develop the listening, speaking, reading and writing skills acquired from French I and 2. Through the study of more complex grammatical structures, students will communicate more effectively in the target language. Role-play, simulation of real life experiences, and discussion of readings and videos further enhance fluency in the language. Students explore the geography, history, and culture of francophone countries in the target language. Students further connect the language with other disciplines, and compare French language and culture with our own.

#### 6305 SPANISH I

GRADES 9, 10, 11, 12

1 year—1 credit

PREREQUISITE: None

Spanish I students will read, interpret, analyze, write Spanish phrases and communicate with each other on an introductory level, focusing on the fundamentals of pronunciation, grammar, and reading. The students will learn these skills by the use of cooperative learning, writing samples, teacher observation, and dialogue practice. The students will demonstrate competency by engaging in group conversation and through individual responses.

#### 6306 SPANISH II

**GRADES 10, 11, 12** 

1 year—1 credit

PREREQUISITE: Spanish I and teacher approval.

This course is designed to provide the students with a general grammatical review of Spanish I and an introduction of some of the finer points of Spanish grammar. In Spanish II, students will effectively communicate in simple face-to-face conversations and interpret, analyze, and respond to common questions. The students will acquire the skills necessary for this through videotape, interviews, role play and real life simulations.

#### 6307 SPANISH III

**GRADES 11, 12** 

1 year—1 credit

**PREREQUISITE**: C or better in Spanish II and teacher approval.

This course is designed primarily to develop fluency while continuing to strengthen the students' understanding of Spanish grammar with literary selections. In Spanish III, students can narrate information in formal and informal settings. The students will acquire the skills necessary to perform the competencies required through teacher-student conversations, role play, simulations, narrations, and group projects. The students strive to attain proficiency which can be understood without difficulty by speakers unaccustomed to non-native speakers.

#### 6308 HONORS SPANISH IV

GRADE 12

1 year—1 credit—1.1 weight

**PREREQUISITE**: C or better in Spanish III and teacher approval.

Honors Spanish IV begins with a complete grammar review followed by a continuation of literary study at a higher level. Classes will be conducted in Spanish, encouraging free conversation. The objective at this level is to approach conversational fluency. The emphasis here is still placed on standard usage with some study of classical Spanish through reading assignments. Cultural study continues, contrasting the differences among Spanish-speaking peoples through numerous short reading selections.



## **BUSINESS & INFORMATION TECHNOLOGY**

All students, as a requirement for graduation, have to pass one (1) credit within Computer/Business course offerings. \*Students who complete Accounting 1 & II can opt to allow this credit to count as a math credit toward graduation requirementms.

#### **BUSINESS COURSE OFFERINGS**

6501 INTRODUCTION TO BUSINESS &

**MARKETING** 

8000 CHS INTRODUCTION TO BUSINESS &

**MARKETING** 

Grades 9, 10, 11, 12 1 semester—.5 credit PREREQUISITE: None

Introduction to Business and Marketing allows the students to discover how the American Free Enterprise System operates and helps prepare students to make decisions as consumers, workers, and citizens. We will study and practice professional business communication and etiquette. The course is also a study of the fundamentals in marketing, advertising, and merchandising activities. The marketing mix is explored and these principles are applied to projects where students participate in team building and decision making activities.

## 6502 SPORTS & ENTERTAINMENT MARKETING

GRADES 9, 10, 11, 12

1 semester—.5 credit

**PREREQUISITE**: Intro to Business & Marketing,

Teacher Recommendation

Sports and Entertainment Marketing is a unique and innovative course designed for students with an interest in the sports and entertainment industry. This course stresses the utilization of fundamental marketing concepts and will include an orientation to the sports and entertainment industry. Marketing strategies along with topics in sponsorship, pricing, marketing research, endorsements and promotions will be part of this course. The course will develop critical thinking, decision making and communication skills through real-world applications. Students will be prepared to handle specific tasks associated with either industry. This course offers students an edge if pursuing marketing or sports management degrees on the collegiate level.

#### 6503 YEARBOOK

GRADES 10, 11, 12

1 year—1 credit

**PREREQUISITE**: Advisor's preapproval

This course will introduce students to all of the various elements of publishing a high school yearbook. Students will develop skills in layout design; writing copy, headlines, and captions; photography; Photoshop, marketing, and finances. We're looking for self-motivated students who are creative, original, outgoing, hardworking, and willing to dedicate extra time to complete quality work on a strict time schedule. Your

ultimate class project is the high school yearbook, the *Alaurum*. If you're interested, <u>please see Ms. Runatz for an application</u> prior to scheduling.

#### 6504 PERSONAL FINANCE 8001 CHS PERSONAL FINANCE

GRADES: 11 & 12 1 semester—.5 credit PREREQUISITE: None

Students will learn to establish good financial management habits for managing their own personal financial affairs. The class will study investing in one's own human capital, developing a banking relationship, understanding credit and debt, creating a budget, insurance, investment, identity theft and fraud. These skills will help students build financial success later in life by developing good financial management habits.

### 6505 ACCOUNTING I 8002 CHS ACCOUNTING I

**GRADES 10, 11, 12** 

1 semester—.5 credit

PREREQUISITE: None

Students will develop an understanding of accounting and bookkeeping procedures by providing experiences in business transactions, debits and credits, and the use of business papers, journals, and ledgers in practical and realistic activities. Students will complete the accounting cycle for a sole proprietorship, including analyzing source documents, recording journal entries, posting to a ledger, preparing a worksheet, adjusting entries, preparing financial statements, recording and posting closing entries, and preparing a post-closing trial balance.

### 6506 ACCOUNTING II 8003 CHS ACCOUNTING II

GRADES 10, 11, 12

1 semester—.5 credit

**PREREQUISITE**: Accounting I

Students will build upon their knowledge from Accounting I by studying accounting procedures for a business organized by a corporation. Students will be introduced to special journals, payroll, and taxes.



#### 6519 ACCOUNTING III 8004 CHS ACCOUNTING III

**GRADES 11& 12** 

1 Semester -.5 credit

PREREQUISITE: Accounting I & II

The accounting skills acquired in Accounting I & II will be expanded. Studies will include accounting for uncollectible accounts, adjusting and closing entries for a corporation, preparing financial statements and financial statement analysis.

#### 6520 ACCOUNTING IV 8005 CHS ACCOUNTING IV

GRADES 11 & 12 Semester - .5 credit

PREREQUISITE: Accounting I, II, & III

Accounting IV focuses on a merchandising business organized as a corporation. Students will learn about acquiring capital for growth and development; plant assets; depreciation and intangible assets; inventory, accruals; deferrals and reversing entries; and end-of-fiscal-period work for a corporation. Students will complete end-of-fiscal-period work for a corporation.

#### **COMPUTER COURSE OFFERINGS**

#### 6507 PERSONAL KEYBOARDING

GRADES 9, 10, 11, 12 1 semester—.5 credit PREREQUISITE: None

Students will learn the valuable skill of touch keyboarding. They will develop speed and accuracy to become efficient and productive at entering data into the computer. Students will learn the alpha, numeric, and symbol keys. They will also develop language, proofreading, and editing skills. Students at the end of this course will be able to type from document without looking at hands or monitor. This class teaches a valuable skill no matter the career goal in mind!

#### 6508 VISUAL BASIC

GRADES 9, 10, 11, 12

1 semester—.5 credit

PREREQUISITE: Algebra I

This one-semester course is hands-on and designed to provide essential skills and experience with the development of computer programs. This course is an introductory programming course for beginners. Students in this course will explore and design business and personal application programs on a variety of topics using the Visual Basic software. Problem solving, object oriented programming, and algorithm development skills will be used as students design, write code, and debug programs. Students planning on pursuing a career in business, information technology, or computers should consider taking this course. It is also for those who are simply curious and interested about learning programming. No computer programming experience is necessary, however, it assumes students are familiar with basic Windows skills and file management.

#### 6509 WEB PAGE DESIGN

GRADES 9, 10, 11, 12 1 semester—.5 credit PREREQUISITE: None

This course is designed to give you an "edge" in whatever career you choose to pursue. This course will introduce you to the process of planning, creating, and maintaining eye pleasing and content rich websites for both professional and personal use. The skills of acquiring, processing, and communicating information to others are very important skills for students to learn in today's Information Age. This course will provide the student with the principles of basic web design using HTML/XHTML, but Adobe's Dreamweaver will be the central program utilized in this class as students go from creating basic one page sites to elaborate multi-page sites with all the bells and whistles. No experience is necessary.

## 6510 INTRODUCTION TO C# COMPUTER LANGUAGE

GRADES 9, 10, 11, 12

1 semester—.5 credit

**PREREQUISITE**: Students must successfully complete Algebra I or Algebra IA and IB and Visual Basic

Microsoft C# computer language combines the best features of Visual Basic, C++ and Java. This entry level course will challenge the student with real life programming applications. Students will gain knowledge of computer programming through the use of a GUI (Graphic User Interface). This interface will also allow the user to produce professional looking applications. The student will be assessed using programming assignments and a final application.



#### 6511 MICROSOFT OFFICE APPLICATIONS I 8006 CHS MICROSOFT OFFICE **APPLICATIONS I**

GRADES 9, 10, 11, 12

1 semester—.5 credit

**PREREQUISITE**: Students should be able to type properly and efficiently.

This is a hands-on course in which students will use Microsoft Office and the Windows operating environment. Students will acquire software skills that will prepare them for college and the workplace. The course will include three components of the Microsoft suite: Word, PowerPoint and Excel.

#### MICROSOFT OFFICE APPLICATIONS II 6512 8007 **CHS MICROSOFT OFFICE APPLICATIONS II**

GRADES 9, 10, 11, 12

1 semester—.5 credit

**PREREQUISITE**: Microsoft Office Applications I

This is a hands-on course in which students will use Microsoft Office and the Windows operating environment. Students will acquire software skills that will prepare them for college and the workplace. This course will include three components of the Microsoft Suite: Word, Excel and Access.

#### 6513 **GAMING**

GRADES 9, 10, 11, 12

1 semester—.5 credit

**PREREQUISITE**: None

Gaming is an introductory programming course that will develop a student's coding through the creation of basic video games. After learning and practicing design and code through simple games, students will create their own video game. Students will also develop skills in graphic design, animation, testing and debugging.

#### VIDEO PRODUCTION I 6516

GRADES 9, 10, 11, 12

1 Semester — .5 credit PREREQUISITE: None

This course is intended to teach basic video production techniques such as writing, shooting and editing short video programs. The student will demonstrate knowledge of camera techniques and display proficiency in iMovie, the video editing software used in editing movies.

#### 6517 VIDEO PRODUCTION II

GRADES 9, 10, 11, 12

1 Semester — .5 credit

PREREQUISITE: Video Production I

This course is intended to build upon already learned knowledge from Video Production I. The students will engage in more in-depth, creative assignments and explore audio editing techniques. The students will also create segments/media to be utilized with our high school media center.

#### **NBHS TV** 6518

GRADES 9, 10, 11, 12

1 Year — 1 credit

PREREQUISITE: None

This course is intended to provide students with the opportunity to be involved in completion of the daily morning announcements. Students will assist in producing the announcements and may become a news anchor in charge of providing essential news or information to the students and faculty of NBHS.



## **HEALTH AND PHYSICAL EDUCATION**

#### 6610 BOYS' HEALTH

GRADES 9, 10, 11, 12

1 semester— .5 credit PREREQUISITE: None

The students will be provided with knowledge pertaining to the five components of health. This information will help them to make appropriate decisions regarding their mental and physical development throughout life. Their knowledge will be demonstrated through exams, quizzes, papers, critiques, and posters.

#### 6611 GIRLS' HEALTH

GRADES 9, 10, 11, 12 1 semester— .5 credit PREREQUISITE: None

The students will be provided with knowledge pertaining to the five components of health. This information will help them to make appropriate decisions regarding their mental and physical development throughout life. Their knowledge will be demonstrated through exams, quizzes, papers, critiques, and posters.

### 6612 BOYS' PHYSICAL EDUCATION 6613 GIRLS' PHYSICAL EDUCATION

GRADES 9, 10, 11, 12 1 semester— .5 credit PREREQUISITE: None

The students will participate in various team sports, individual sports, lifetime activities and adventure/outdoor education activities. Upon completion of four years of Physical Education at New Brighton High School, the students will have the skills and knowledge to maintain proper fitness throughout life. Assessment will be done through student participation and teacher observation.

#### 6614 BOYS' FITNESS TRAINING 6615 GIRLS' FITNESS TRAINING

GRADES 9, 10, 11, 12: (maximum of 22 students) 1 semester—.5 credit

**PREREQUISITE**: No medical conditions limiting participation, have not failed PE in High School and all students **pre-approved by the teacher**.

The course is designed primarily to develop a base knowledge on how to design a fitness program that suits your individual needs. Students will participate in a variety of workout programs that include free weight training, running, swimming, yoga, plyo-metrics, power walking, and other health-related activities. The course is designed to strengthen the body, building self-esteem, and provide students the knowledge on how to achieve optimal health. The course will include some classroom settings to explore the skeletal and muscular systems. A detailed pre and post assessment will be conducted for the students to monitor gains achieved.

#### 6701 CHORUS

GRADES 9, 10, 11, 12

1 year—1 credit

PREREQUISITE: Permission of Instructor

This chorus is designed to establish, develop, and strengthen the needed understandings to sing choral music of graduated difficulty. The growth of the vocal student in their vocal technique, musicianship, and music reading skills will be stressed. Any male or female may elect mixed chorus; however, you must be able to sing in tune. Evening performances are required.

#### 6702 HONORS CHORUS

GRADES 10, 11, 12

1 year—1 credit – 1.1 weight

PREREQUISITE: Students wishing to enroll in this course must be in grades 10-12 and will be placed in the class based on the director's evaluation and permission. This is an advanced choral group which studies and performs all types of music in the moderate to difficult range. Students will participate in collaborative vocal music activities through daily self-addressed harmonization in a broad choral setting. Daily choral training and development is required to successfully participate in choral competitions, i.e., Honors, District, Regional, and All State Chorus. Students will be required to perform at the annual Baccalaureate program as part of the grading procedure. Students will be required to perform at the annual Honors Program as part of the grading procedure. Students accepted into this class will be required to sing the National Anthem at least one time at a home sporting event, parade, or other school related public event. This may be done as a solo, duet, or ensemble of any size. Every student must take their own required singing assignment; for example, if two students elect to sing a duet at a basketball game, they will be required to sing at two events one for each student. Students accepted into this class will be required to attend one arts related event per semester and provide proof of their attendance, (program, ticket stub etc.) along with a completed reflection form.

#### 6703 INSTRUMENTAL MUSIC (BAND)

GRADES 9, 10, 11, 12

1 year—1 credit

**PREREQUISITE**: Permission of Instructor

This course is for all band members with specific periods set aside for Concert and Marching Band rehearsal. After-school and summer practice sessions are required. Students may receive additional individual or ensemble instruction during their study halls. Students will learn individual and team responsibility as well as cooperation skills through peer teaching. The Band Director may opt to select students to participate in select ensembles as a result of auditions and available instrumentation. Included and required in this course is after-school participation in concert performances, football games, parades, and band festivals; practice sessions—both ensemble and individual—and occasional written work.

## 6704 HONORS INSTRUMENTAL MUSIC (HONORS BAND)

GRADES 10, 11, and 12

1 year - 1 credit - 1.1 weight

**PREREQUISITE**: Instructor recommendation and a performance audition.

Students enrolled in this course will have the same requirements as those students who are enrolled in instrumental music with the addition of learning more scales and arpeggios and being tested on those areas. Students enrolled in Honors Instrumental will also be required to learn the professional solo for the Pennsylvania Music Educators Association's (PMEA) District 5 Honors Band Festival. Students will be tested on the solo and may be asked to audition for the PMEA Honors Band Festival.

#### 6705 LIONETTES

GRADES 9, 10, 11, 12

1 semester—.5 credit

**PREREQUISITE**: Auditions held in the spring for the following year.

Lionettes is part of the HS Marching Band. It is comprised of members who perform in a variety of ways, including the use of flags, batons, pom-poms, dance, and other props. The number of students chosen for the Auxiliary Unit is based on the number of Instrumentalists in the Band each year. Membership is based on auditions held in the spring for the upcoming season. Full-time members, alternates, and the use of second squad are chosen at the Band Director's discretion. Included in the requirements for Lionettes, membership is afterschool participation in all Marching Band functions and Rehearsals scheduled throughout the summer and school year. Any squad member who plays an instrument is *required* to participate in Concert Band.

#### 6706 JAZZ BAND

GRADES 9, 10, 11, 12

1 Semester .5 Credit

PREREQUISITE: Permission of Instructor

This course consists of a modern jazz ensemble which stresses playing and improvisation. Music is selected from available tunes representing various styles of jazz, jazz-rock, Latin and swing music from the past and present. Jazz Band is open to any capable instrumentalist (including piano, guitar, and bass). Out-of-school performances, after school rehearsals, and **practicing is required**.



#### 6707 PERCUSSION ENSEMBLE

GRADES 9, 10, 11, 12

1 Semester .5 Credit

**PREREQUISITE:** Permission from instructor. Background knowledge of reading and performing music. Percussion Ensemble is an instrumental ensemble that will consist of only percussion instruments. Students enrolled in this class will learn how to play different percussion instruments as well as playing together in a percussion ensemble setting. Prior experience on percussion instruments is not required. After school rehearsals may be required and a concert will be held at Christmas and in the spring.

#### 6708 MUSIC THEORY

GRADES 10, 11, 12

1 year—1 credit

PREREQUISITE: At least one year of chorus or band in high school and instructor recommendation.

The purpose of this course is for students who are interested in learning the theory behind reading and writing music. Students must have basic music knowledge of how to read notes and rhythms. This will be a leveled curriculum where new information will be taught based on past information. By the end of the year, students will be able to write their own short music composition(s) based on skills learned throughout the year. Homework and written assignments will be a requirement.

## 6709 INTRODUCTION TO MUSIC TECHNOLOGY

GRADES 9, 10, 11, 12

1 Semester—.5 Credits

Prerequisite: Instructor permission

This semester course is an introduction to music technology. The students will explore the creation of music, recording, editing, scoring, and the applications of modern music. Students will work independently and collaboratively to become familiar with music production and the various uses for the skills that they will develop.

#### 6711 MUSIC TECHNOLOGY II

GRADES 9, 10, 11, 12

1 Semester—.5 Credits

Prerequisite: Introduction to Music Technology,

Instructor permission.

Music Technology II is a course designed to follow Introduction to Music Technology. The course will focus on music production. The use of computer recording and production of live recording will be emphasized. Programs will include Garage Band, Logic, Ableton, and Presonis. Students should expect to work independently and collaboratively to produce music of various genres. The use of sound boards, mixers, and lighting will also be explored. Recording of live school performances will be embedded in the curriculum.



### TECHNOLOGY EDUCATION—Practical and Fine Arts Electives

#### 6801 INTRO TO ENGINEERING

GRADES 9, 10, 11, 12 1 Semester —.5 credit PREREQUISITE: None

This is an engineering based course that introduces the problem-solving process and utilizes the parts of the technological system (inputs, process, output, and feedback) in a project-based curriculum. Students will be engaged in many hands-on exploratory activities that include but not limited to: airplane design, catapult challenge, bridge and tower building, alternative energy (mouse trap vehicles), freefall exploration, and boat hull design. This class utilizes science and math principles and applies them to real world situations (STEM), where students will design produce, test, and evaluate every aspect of assigned projects.

#### 6802 ENGINEERING & GRAPHICS

GRADES 9, 10, 11, 12 1 Semester —.5 credit PREREQUISITE: None

This course provides students with an opportunity to create drawings and blueprints utilizing various drafting equipment, such as, drafting boards, T-squares, various size angles, compasses and circle templates. This course will focus on measuring three dimensional objects and drawing them two dimensional with various views using drafting tools. Students are eligible to take CAD I after completing this course.

#### 6803 ENGINEERING II

GRADES 9, 10, 11, 12

1 Semester —.5 credit

**PREREQUISITE:** Introduction to Engineering, This course provides students with an opportunity to research, design, and construct solutions from problems presented in different design challenges. Students will expand their knowledge gained in mathematics and science courses as well as from their own personal life experiences to solve problems. Students will conduct research, develop possible solutions, and construct solutions using the engineering design process. Each student will be required to research, design, and construct a final solution for each problem statement.

#### 6805 MANUFACTURING SYSTEMS I

GRADES 9, 10, 11, 12 1 Semester —.5 credit PREREQUISITE: None

This course is an entry level woodworking course that gives students an opportunity to explore basic woodworking techniques and gain valuable problem-solving skills. Students will complete individual projects using basic woodworking techniques throughout the semester. In this course students will focus on: machine and laboratory safety, measuring and design procedures, CNC machining, and basic woodworking techniques.

#### 6806 MANUFACTURING SYSTEMS II

GRADES 9, 10, 11, 12

1 Semester —.5 credit

PREREQUISITE: Manufacturing Systems I

This course is for students who want to further their knowledge in woodworking and carpentry. Students will explore woodworking techniques through various intermediate projects. Students will build on the basic skills and techniques learned from Manufacturing Systems I. Throughout the course students will expand their knowledge of: machine and laboratory safety, layout and design, CNC machining, and woodworking techniques.

#### 6807 MANUFACTURING ENTERPRISE

GRADES 10, 11, 12

1 Semester—.5 credit

PREREQUISITE: Manufacturing Systems I & II

This course is designed for students to explore the journey of creating a small business. Students will research, design, and market a product for their up and coming business endeavor. Students will gain valuable team building skills as well as advanced problem-solving skills during their business endeavor. In this course students will design and create a product to be mass-produced in the manufacturing setting. After the product is produced, students will have a chance to show off their marketing skills and sell the product. Students will focus on: machine and laboratory safety, layout and design, mass production, entrepreneurship, and team building skills.

#### 6808 PRODUCTION TECHNOLOGY I

GRADES 10, 11, 12

1 Semester—.5 credit

**PREREQUISITE:** Manufacturing Enterprise

This course provides students with an opportunity to advance their knowledge and skills in manufacturing processes. Students will design and create advanced woodworking projects with the use of skills and techniques gained from previous manufacturing courses. The use of machines, tools, and manufacturing processes will allow students to explore furniture and cabinet making. Students will focus on: machine and laboratory safety, project layout and design, and advanced cabinetry techniques.



#### 6809 PRODUCTION TECHNOLOGY II

**GRADES 11, 12** 

1 Semester—.5 credit

**PREREQUISITE:** Manufacturing Enterprise & Production Technology I (or permission from instructor).

This course is a continuation of Production Technology I. It will provide students with an opportunity to advance their knowledge and skills in manufacturing processes. Students will design and create advanced woodworking projects with the use of skills and techniques gained from previous manufacturing courses. The use of machines, tools, and manufacturing processes will allow students to explore furniture and cabinet making. Students will focus on: machine and laboratory safety, project layout and design, and advanced cabinetry techniques.

## 6810 WOODWORKING SKILLS & OPERATIONS

GRADES 9, 10, 11, 12

1 Semester—.5 credit

PREREQUISITE: None

This course is an entry level course that will introduce students to basics of home maintenance and repair. Students will learn and develop skills in home improvement through rough carpentry, electrical, plumbing, and drywall. This course will provide students with a hands-on approach to learning focusing on basic home improvement skills.

#### 6812 COMPUTER AIDED DESIGN I

GRADES 9, 10, 11, 12

1 Semester—.5 credit

PREREQUISITE: Engineering & Graphics

Students interested in the Mechanical, Technical, and Engineering fields will gain skills and knowledge which will help them achieve success in these careers. Computer aided design is an excellent general study course for all students, but is especially important for future post high school engineering/technical students. It is also beneficial to those who are planning a career in a skilled trade. This course will include basic mechanical drawing, pictorial representation and Autocad CAD (Computer Aided Design.) All drawings will be completed using Autocad Computer Aided Design software.

#### 6813 COMPUTER AIDED DESIGN II

GRADES 9, 10, 11, 12

1 Semester—.5 credit

PREREQUISITE: Computer Aided Design I

This course is designed for students with an above average interest in the field of Engineering and Mechanical/Technical Design. This course will involve many of the more advanced aspects of technical drawing including isometric projections, pictorial representation, section views, and an extensive use of descriptive geometry. All drawings will be completed using Autocad Computer Aided Design software.

#### 6814 COMPUTER AIDED DESIGN III

GRADES 10, 11, 12

1 Semester—.5 credit

PREREQUISITE: Computer Aided Design I & II

This course is designed for students who wish to further their Cad skills and knowledge. This course will introduce students to various types of buildings and the components used to build them. Students will learn how buildings are designed and constructed. Projects consist of Computer Aided design drawings. Other topics include architectural styles, residential area planning, architectural plans, building materials, site plans, and zoning ordinances.



### FAMILY AND CONSUMER SCIENCES-Practical and Fine Arts Electives

### 6901 FOODS AND NUTRITION I

GRADES 10, 11, 12 1 semester — .5 credit **PREREQUISITE**: None

Foods 1 is a course designed to explore the basic food groups while teaching safety and sanitation skills needed in food preparation. Communication, organization, and conservation skills are incorporated in the weekly foods labs while students learn about food terminology, kitchen equipment and applied culinary math. Students will demonstrate basic food preparation techniques in the kitchen including knife safety, cooking methods and the ability to read a recipe. This course utilizes cooperative learning, lab experiences and individual assessments to monitor students' progress.

#### FOODS AND NUTRITION II 6902

GRADES 10, 11, 12

1 Semester—.5 credit

**PREREQUISITE:** Foods & Nutrition I

Foods 2 will continue to build upon the knowledge and skills attained in Foods 1. This semester course is designed to strengthen the understanding and importance of nutrition as it relates to wellness. Using the new MyPlate guidelines, students will investigate the essential nutrients found in each of the five basic food groups. Students will develop their understanding of the principals of nutrition by planning, creating and evaluating foods made in weekly foods labs. This course utilizes cooperative learning, lab experiences and individual assessments to monitor students' progress.

#### 6903 **CULINARY CUISINES**

**GRADES 11, 12** 

1 Semester—.5 credit

PREREQUISITE: Foods & Nutrition I, Foods &

Culinary Cuisines is designed to utilize the skills developed from Foods I and II. Students are expected to function at an independent level in the kitchen. This upper level foods class is a one semester course that will acquaint students with food customs of various countries and regions of the world. Through this course students will experience the role of food in a variety of cultures and learn how the surrounding environment influences the tastes and flavors of a region. This course utilizes cooperative learning, lab experiences and individual assessments to monitor students' progress.

#### 6904 INTRODUCTION TO ELEMENTARY **EDUCATION**

GRADES 11, 12 (Seating is limited due to the nature of this course)

1 Semester — .5 credit

PREREQUISITE: Permission of instructor

This course is designed to explore child development concepts and theories through an interactive elementary field work experience. Students will learn about positive guidance skills and effective teacher traits along with the areas of child development. Concepts learned in class will be observed and applied in an elementary classroom setting three times a week. Students will also study the positive traits of a child caregiver along with the responsibilities the position entails.

#### **ELEMENTARY EDUCATION II** 6905

GRADES 11, 12 (Seating is limited due to the nature of this course)

1 semester — .5 credit

**PREREQUISITE:** Introduction to Elementary

Education

This course builds upon the concepts presented in Child Development 1. Students must be prepared to work with children on an individual and daily basis to provide age appropriate activities and social skills. This course will emphasize critical thinking and problem solving, communication and collaboration, and the ability to be a part of a successful learning team. Students will model their learning by writing and creating age appropriate lesson plans and activities to teach in an elementary classroom. Elementary classroom visits will be up to three times per week. Seniors who choose this course need to have an interest in children and strive to understand their needs.



#### ART—Practical and Fine Arts Electives

The following courses are designed to challenge and encourage any student who wishes to express feelings and emotions through the visual arts. Students will be encouraged to visualize, appreciate, analyze, and create using a variety of media and tools enabling them to become creative producers, effective visual communicators, and life-long contributors. All student work will be exhibited throughout the year in the ARTSCAPE Gallery. Each student will maintain a portfolio of the year's work for assessment.

#### 6910 FOUNDATION ART I

GRADES 9, 10, 11, 12 1 Semester—.5 credit PREREQUISITE: None

This course is an entry-level course intended to develop skills that will enable a student to improve techniques, cultivate an appreciation of art, and pursue further art courses. Throughout this course, students will be introduced to the Elements of Art and the fundamentals of the art making process. Students will create a variety of two-dimensional artworks using different materials and techniques. Students will explore different ideas of the creative process including planning, designing, and production.

#### 6911 FOUNDATION ART II

GRADES 9, 10, 11, 12

1 Semester—.5 credit

PREREQUISITE: Completion of Foundation Art I

This course will build upon the fundamental techniques learned in Foundation of Art I and will introduce the Principles of Art to students. Students will continue to expand their knowledge and understanding of different techniques and materials in this course. This course is designed to enrich student learning through more in-depth concepts and ideas while introducing students to even more materials and techniques.

#### 6912 ADVANCED DRAWING

GRADES 10, 11, 12

1 Semester—.5 credit

**PREREQUISITE:** Completion of Foundation Art I & II Building upon what students have learned in Foundation Art I and II, this class will introduce students to advanced drawing techniques. Along with the advanced drawing techniques, students will learn by using a variety of media including graphite, charcoal, pastel, and colored pencils. Students will be exposed to a variety of techniques including still life, portraiture, perspective, and observational drawing. Students will be required to develop an artist portfolio throughout this course.

#### 6913 ADVANCED PAINTING

GRADES 10, 11, 12

1 Semester—.5 credit

**PREREQUISITE**: Completion of Foundation Art I & II and Advanced Drawing.

In conjunction with Advanced Drawing, this course will continue to elaborate on the Elements and Principles of Art and how they apply to different techniques in painting. Students will be introduced to advanced painting methods and continue to build upon what they have learned in previous art courses in order to refine their artistic approach. Students will be encouraged to begin to develop their own personal styles as well as learning through visual demonstrations. Students will also be required to build upon their artist portfolio from Advanced Drawing.

### 6914 INTRODUCTION TO CERAMICS

GRADES 9, 10, 11, 12 1 Semester—.5 credit PREREQUISITE: None

This course is an entry-level course designed to introduce students to the basic fundamentals of ceramics. Ceramics offers students a very hands-on approach to the art making process allowing students to develop their craftsmanship and critical thinking skills. Within this course, students will learn necessary techniques to pursue further ceramic courses. Basic techniques of hand building such as coil building, slab building, and sculptural construction will be covered to give students a wide range of sculptural methods.

#### 6915 CERAMICS II

GRADES 9, 10, 11, 12

1 Semester—.5 credit

**PREREQUISITE**: Completion of Introduction to Ceramics.

Building upon techniques learned in Introduction to Ceramics, students will continue to perfect and enhance skills first introduced in the previous course. In addition, students will develop a personal style and sculptural techniques through a variety of three-dimensional assignments. Students will spend extensive time on the potter's wheel perfecting their skill as well as traditional hand-building techniques.



#### 6916 CERAMICS III

GRADES 10, 11, 12

1 Semester—.5 credit

**PREREQUISITE**: Introduction to Ceramics & Ceramics II.

This course is designed to give students an advanced and indepth experience in ceramics. Coursework will be centered on the pottery wheel in conjunction with additional hand-building coursework. Students will be introduced to advanced pottery techniques in both construction and glazing. Assignments explored will be both functional and artistic in nature while addressing complex ceramic practices.

#### 6918 DIGITAL FOUNDATIONS

GRADES 10, 11, 12

1 Semester—.5 credit

**PREREQUISITE**: Completion of Foundation Art I & II Course Description

This course is designed to build upon the elements and principles learned in Foundation Art I & II with an emphasis on digital applications. Through the four basic principles of Design which include Graphic, Industrial, Architectural, and Interactive Design, students will be able to explore a variety of Adobe Creative Suite programs as well as develop an artistic style throughout. Through the use of the Adobe software, students will learn the basics of photo manipulation, graphic design, as well as digital publication.

### GENERAL ELECTIVES/SPECIALIZED PROGRAMS

#### 3010 ENGLISH LANGUAGE INSTRUCTION

GRADES 9, 10, 11, 12

1 year—1 credit (Will replace English)

PREREQUISITE: Administrative Assignment

This is a tutorial course designed to teach grade level English to English Learners

- Students who demonstrate a Level 1 through Level 5 proficiency on the WIDA assessment.
- Students with a wide range of aptitudes and learning styles
- Children and adults
- Classroom and independent study

The content of EL includes language skills of speaking, listening, reading and writing. Instructional methods will include small group, one-on-one, and computer-assisted learning programs. The course work is designed to provide grade level English and Literature instruction with appropriate modifications, as well as to provide support for English skills required in other content area classrooms. This year-long course will replace the English course for the academic year and satisfies the English requirement for graduation.

#### 7001 SAT PREP

GRADES 9, 10, 11 1 SEMESTER—.5 credit PREREQUISITE: None

The objective of this course is to prepare students for the mathematics, Evidence Based Reading and writing sections of the SAT exam. This one semester, .5 credit, general elective course will supply an overview of the structure for all three components of the SAT exam. In addition, students will review mathematics, Evidenced Based Reading and writing skills and test-taking strategies. Upon successful completion of this course, students will be better prepared to take the SAT exam.

## 7002 PERFORMANCE FORENSICS—English Elective (Mock Trial)

GRADES 9, 10, 11, 12

1 year—1 credit

PREREQUISITE: None

Performance Forensics is a public speaking course based on the Mock trial statewide competition sponsored by the Pennsylvania and Beaver County Bar Associations. This course can be taken as an elective for one (1) credit or the student may choose to participate as an activity. It will utilize materials from the PA Bar Association and other material related to any public speaking venues chosen for participation during the school year. The class instruction will be given after regular school hours and in the evening during the second and third nine-week periods. Professional lawyers and other experienced instructors will assist in the instruction. District attendance policies will be applied wherever applicable. A minimum of 70 classroom hours, including performance time, will be required to earn credit for this class.

## 7003 HONORS PERFORMANCE FORENSICS – English Elective

**GRADES 10, 11, 12** 

1 year—1 credit—1.1 weight

**PREREQUISITE**: Performance Forensics

Honors Performance Forensics may be taken by any student who has completed Performance Forensics. It will count as one full credit and participation and instruction will be given concurrently with the Performance Forensics class. Each student will maintain a portfolio of the work prepared for and used in the Prosecution/Plaintiff and Defense cases created. Additionally, each honors student shall have some leadership responsibility in mentoring students new to the Mock Trial format and constituent elements as well as input into presentation styles and strategies.

 $7007 - 9^{TH}$  GRADE CAREER PORTFOLIO  $7008 - 10^{TH}$  GRADE CAREER PORTFOLIO  $7009 - 11^{TH}$  GRADE CAREER PORTFOLIO

REQUIRED 9<sup>th</sup>, 10<sup>th</sup>, & 11<sup>th</sup> Grade - Independent Study & Classroom Based Assignments 1 Credit

New Brighton Area School District implements a 3 Year Career Portfolio broken into 3 parts and encourages students to focus on post-secondary options. The three Year Career Portfolio needs to be satisfactorily completed according to the standards set in order to graduate. The requirements of the project will be completed both during class as assigned activities and outside of school as independent activities. The student is responsible for completing all requirements of the project.

Students will earn .25 credit on their transcript upon successful completion of Part 1 (grade 9), .25 for successful completion of Part 2 (grade 10), and .5 credit for successful completion of Part 3 (grade 11) for a total of 1 full credit required for graduation.

#### 7011 RELEASE

that permits release.

#### **GRADE 12**

1 year—No credit given

**PREREQUISITE**— Student must be scheduled for the minimum number of credits required for graduation.

Release is an option for seniors who are on-track with graduation requirements. At the end of their junior year, students who require less than a full course load of credits their senior year are eligible. A student's schedule will be reviewed by the school counselors in order to accommodate leaving for release after their last required class. There are no guarantees that the courses a student requests will accommodate a schedule

#### **DUAL ENROLLMENT**

#### **GRADES 11 & 12**

1 year—1 credit each course

PREREQUISITE—80% average

Dual enrollment allows students to take college courses simultaneously while taking high school courses. Students who participate in the Dual Enrollment program may earn one high school credit and 3 to 4 college credits. Students with 80%+ average are eligible to attend Penn State Beaver Campus or Community College of Beaver County. Senior students' schedules may be adjusted to accommodate leaving the high school to take Dual Enrollment classes. The cost of the college courses must be paid for by the student's family. These courses are not remedial courses. Course selections must be approved by college admissions staff and the student's high school Students must express interest to guidance counselor. participate with their guidance counselor. \*\*\*College courses taken outside of the Dual Enrollment program must be approved by the principal in order to receive credit towards graduation requirements. Dual Enrollment courses are not given a weighted grade.

7021	CCBC AVIATION ACADEMY	
	Offered beginning in Grade 11	
7022	CCBC HEALTH ACADEMY	
	Offered beginning in Grade 11	
7023	CCBC STEM ACADEMY	
	Offered beginning in Grade 11	
7024	CCBC Criminal Justice Academy	
	Offered beginning in Grade 11	
7041	CCBC Construction Academy	
	Offered beginning in Grade 11	
7048	CCBC Education Academy	
	Offered beginning in Grade 11	

1 year—1 credit each course
PREREQUISITE—CCBC Academy application and

acceptance into program.

The Community College of Beaver County (CCBC) provides an opportunity for students who are interested in a career in a related field through their Academies. These Academies allow students to begin college coursework in their chosen field during high school in an effort to jumpstart their career. Students participate in high school courses here at NBHS for a half day and also attend college level courses on CCBC's campus for a half day. Students/families are responsible for any costs associated with these programs as well as transportation. Scholarship/financial assistance MAY be available to cover program tuition and fees.



## College in High School (CHS) Course Offerings

College in High School (CHS) courses enable New Brighton High School teachers to work with local universities in a partnership to offer college-level courses. New Brighton High School currently has an agreement with Pittsburgh Technical College (PTC) to provide (CHS) courses for our students. CHS courses provide high school students the opportunity to earn college credits and receive a grade on a college/university transcript for courses successfully completed at New Brighton High School. In many cases, students may transfer these credits to other universities.

Students enrolling in any CHS course will be required to pay \$50.00 per college credit and earn a final grade of a "C" or better for each CHS course enrolled in. Below is a list of New Brighton High School's CHS course offerings and financial obligations for each CHS course.

- CHS Accounting I & CHS Accounting II (Must take both courses to earn credit) (4 College Credits) = \$200.00
- CHS Accounting III & CHS Accounting IV (Must take both courses to earn credit) (4 College Credits) = \$200.00
- CHS Microsoft Applications I (4 College Credits) = \$200.00
- CHS Microsoft Applications II (3 College Credits) = \$150.00
- CHS Personal Finance (4 College Credits) = \$200.00
- CHS Introduction to Business (4 College Credits) = \$200.00

The CHS courses listed above are courses that can be taken as either a New Brighton High School course for high school credit only (free to all students) or can be taken as a CHS course for \$50.00 per college credit.



# BEAVER COUNTY CAREER AND TECHNOLOGY CENTER

- 3501 HVAC-R (Air Conditioning/Refrigeration)
- 3502 COLLISION REPAIR TECHNOLOGY
- 3503 AUTO MECHANICS
- 3504 BUSINESS INFORMATION SYSTEMS
- 3505 CARPENTRY
- 3506 COMMERCIAL ART
- 3507 LOGISTICS AND MATERIALS MANAGEMENT
- 3508 COSMETOLOGY
- 3509 ELECTRICAL OCCUPATIONS
- 3510 CULINARY
- 3511 GRAPHIC ARTS/PRINTING
- 3512 GREENHOUSE/LANDSCAPING
- 3513 HEALTH OCCUPATIONS
- 3514 MACHINE TOOL TECHNOLOGY
- 3515 MASONRY/BRICKLAYING
- 3516 WELDING
- 3517 VET TECH

#### ALL BCCTC PROGRAMS

#### GRADES (10), 11, 12

1 year—3 credits—1/2 day—AM or PM Sessions (Depends on other scheduled courses)

**PREREOUISITE**: Must complete a BCCTC online application and be selected by NBHS staff.

The Beaver County Career and Technology Center is an extension of your high school which offers Career/Technology Courses. Each occupational program prepares students to enter the job market with a career skill. The Career/Technology Courses are two-year programs for students in grades 11 and 12, which meet three hours per day for a total of 1080 hours, except for the cosmetology program which is a 3 year program beginning in 10th grade.

Students who wish to apply for admission must communicate with their counselor and complete an online application. Student selection is decided by the home school and is based upon factors such as interest, aptitude, counselor recommendations, teacher recommendations, attendance, school achievement, discipline, and quota at the CTC.

Students must successfully complete 2 or 3 years at the BCCTC in order to waive academic credits towards graduation. The following scheduling chart explains the credit requirements for graduation. See page 37 for details.



# **Beaver County Career and Technology Center Scheduling Options**

#### **BCCTC STUDENTS**

(Two year program)

NEEDS: 4 CREDITS OF ENGLISH

1 CREDIT OF GYM

.5 CREDIT OF HEALTH

1 CREDIT OF COMPUTERS

1 CREDIT OF FINE ART

1 CREDIT FOR CAREER PORTFOLIO

**OPTIONS**: 4 History—3 Science—3 Math

3 History—4 Science—3 Math

3 History—3 Science—4 Math

#### **BCCTC STUDENTS**

(Three year program/Cosmetology Students)

**NEEDS: 4 CREDITS OF ENGLISH** 

3 CREDITS OF MATH

**3 CREDITS OF HISTORY** 

3 CREDITS OF SCIENCE

1 CREDIT OF GYM

.5 CREDIT OF HEALTH

\*1 CREDIT OF COMPUTER/BUSINESS

OR

\*1 CREDIT OF FINE ART

\*1 CREDIT FOR CAREER PORTFOLIO

## The following programs will meet the Computer/Business requirement for graduation:

Business Information Systems Commercial Arts

Graphic Arts Logistics & Material Management

# The following programs will meet the technology requirement for graduation:

HVAC-R (Air Conditioning/Refrigeration)

Collision Repair Technology

Auto Mechanics

Health Occupations

Machine Tool Technology

Masonry/Bricklaying

Carpentry Culinary
Cosmetology Welding
Electrical Occupations Vet Tech

Greenhouse/Landscaping Logistics & Material Management



<sup>\*</sup>Students need only complete either a Computer/Business or Fine Art course, depending on which program they choose to complete.

<sup>\*</sup>Students who will only complete 1 year of BCCTC will be assessed on an individual basis for credit requirements.

<sup>\*</sup>Students who are delinquent on credits for graduation will be assessed on an individual basis for approval to attend BCCTC.

<sup>\*</sup>Completion of 27 credits are required for all students (including students who attend the BCCTC) in order to graduate.





# Program of Studies



#### **MATH**

Algebra IA 1 Credit

Algebra IA is a course that focuses primarily on linear relationships. This course provides for the use of algebraic skills in a wide range of problem-solving situations. This course will include an emphasis on the algebraic manipulation of linear expressions, equations and inequalities. Data collection and analysis will also be included. Completion of Algebra IA will prepare students for continuing in the mathematics curriculum to Algebra IB as well as for the Pennsylvania state assessments in mathematics.

Algebra IB 1 Credit

Algebra IB is a full-year course that continues from Algebra IA. Topics include an in depth look at linear relationships, systems of linear equations and inequalities, the laws of exponents, operations with polynomials, and measures of dispersion to describe data and to make predictions.

Algebra I 1 Credit

Algebra 1 provides a formal development of the algebraic skills and concepts necessary for students to succeed in advanced courses. In particular, this course provides for the use of algebraic skills in a wide range of problem-solving situations. The concept of function is emphasized throughout the course. Topics include: (1) operations with real numbers, (2) linear equations and inequalities, (3) relations and functions, (4) operations with polynomials, (5) data analysis.

Geometry 1 Credi

Geometry is a course involving the study of and the relationships that exist in various geometric shapes including lines, angles, triangles, polygons and circles. Emphasis will be placed on logical reasoning and problem solving. Algebra will be integrally used within the course to maintain the students' algebra skills.

Honors Geometry 1 Credit

The Honors Geometry is at a more rapid pace and greater depth than Geometry. In addition, more emphasis will be placed on independent learning and discovery. This course is essential for those students planning a math/science degree at a four-year college.

Algebra II 1 Credit

Algebra II is a course that extends the content of Algebra I and provides further development of the concepts of a function. Topics include: relations, functions, equations, inequalities, polynomials, quadratics, and algebraic fractions. Students will use problem-solving techniques to solve problems and apply those techniques to real world situations.

Honors Algebra II 1 Credit

Honors Algebra II is a course designed for those students planning to attend a four-year university and major in a math/science field. Honors Algebra II will cover the same algebraic concepts as Algebra II, but at a more rapid pace and at a greater depth. In addition, more emphasis will be placed on independent learning and discovery.

Applied Math 1 Credit

Applied Math is designed to develop a class of financially literate students. They will have the knowledge, skills, and confidence to begin taking charge of their financial future. Budgeting, saving, making investments, and handling credit are financial skills that all individuals need to know. This course is recommended for any senior whether they are college bound or planning on entering the job market immediately upon graduation.

Statistics 1 Credit

In this course students will learn the fundamentals of probability, methods of describing and displaying numerical and categorical data, and investigation of random variables and their distributions.

#### **SCIENCE**

Biology 1 Credit

This high school course covers an in-depth view of biological science concepts. A brief section of biochemistry leads into an overview of ecology and the interactions of the environment and populations of living organisms. A comprehensive section on cellular biology and genetics exposes students to biology on a small scale that leads to the theory of evolution and the history of life on earth. The remainder of the course explores the complexity and variety of life on earth with sections devoted to simple organisms, plants, invertebrates and vertebrates as well as human biology.



Honors Biology 1 Credit

The core biology curriculum is designed to present an examination of the living world and related societal issues. Emphasis is placed on the scientific process, cells and cell processes, and the continuity and unity of life, including lab simulations. The course will include the characteristics and organization of life from the biosphere to the atom. This includes DNA, biochemistry, genetics, cell division, homeostasis and related processes. Honors biology is a fast-paced, rigorous course in which the student is expected to be highly motivated to achieve at an honors level. Honors biology investigates biological organization starting at a molecular level and culminating with living organisms and their interrelationships. This course differs from Biology in depth, pace, and lab simulations.

Chemistry 1 Credi

This year-long high school course covers the foundation for the composition, structure, and reactions of matter. It addresses scientific measurements, the general properties of matter, and the structure of the atoms. Also covered are the periodic table, types of bonds, and chemical equations. Other topics involve introducing the states of matter, chemical reactions, the energy involved in chemical changes as well as a brief overview of nuclear chemistry. This course requires students to use math in calculations and conversions.

Conceptual Chemistry .5 Credit

This half-year high school course covers the foundation for the composition, structure, and reactions of matter. It addresses scientific measurements, the general properties of matter, and the structure of the atoms. This course is not as math intensive as regular chemistry, however students will be required to perform some math operations.

Physics 1 Credit

This course is designed for college-bound students. It provides the foundation for an understanding of the laws that govern the concepts of motion and energy. This course relies on the use of mathematics to represent and illustrate different phenomena, so students need to have a strong math background to be successful. Major themes in this course include mechanics, work and energy, electricity and magnetism, waves, light, and sound.

Conceptual Physics .5 Credit

This is a half-year course that provides a conceptually-based exposure to the fundamental principles and processes of the physical world. Topics include basic concepts of motion, forces, energy, heat, electricity, magnetism, and the structure of matter and the universe. Upon completion, students should be able to describe examples and applications of the principles studied. Computer-based exercises will enhance the understanding of basic physical principles and applications.

Astronomy .5 Credit

Astronomy is a semester, half credit, science course that is designed to give the high school student an introduction and appreciation for the universe beyond the Earth. This course includes lessons in space science, the chemistry of life, interactions of the Earth-Moon-Sun system, and an overview of our solar system and the Universe beyond. Students are required to submit Guided Notes, complete Lab Reports using Google Docs, and do projects using Google Slides. This course may also be counted as an elective for those students who have already met their four credit science requirements.

Anatomy .5 Credit

This course provides an introductory level study of the human body, its structure and function. The main focus of this course is a survey of each body system, including cells, tissues, and organs, and the homeostatic mechanisms of the body. This course would be especially useful for students whose ultimate goal is to enter the healthcare profession by providing a basic overview of vocabulary and purpose for body systems and parts.

Environmental Science .5 Credit

This course encompasses several major units which cover many aspects of environmental science including Water; Energy and Resources; and Societies and Policy. Environmental Science contains Global Connections lessons which include unique activities that merge lesson material with real world issues pertaining to the environment. This course focuses on the impact human activity has had on ecosystems. We will also look at the role humans have had in the ecological spheres (studied in Ecology) and the impact these changes have had on the world.

Earth Science 1 Credit

Earth Science is a yearlong, one credit, science course that is designed to give the high school student an introduction and appreciation for the processes that sustain life on Earth. This course includes lessons in geology, oceanography, astronomy, and meteorology. Students are required to submit Guided Notes, complete Lab Reports using Google Docs, and do projects using Google Slides. This course may also be counted as an elective for those students who have already met their four credit science requirements.



U.S. History I 1 Credit

U.S. History I is a year-long course that dynamically explores the people, places, and events that shaped United States history. This course stretches from the Reconstruction Era to World War II, leading students through a careful examination of the defining moments that paved the way for the United States of today. Students begin by exploring the colonization of the New World and examining the foundations of colonial society. As they study the early history of the United States, students will learn critical thinking skills by examining the constitutional foundations of the U.S. government.

U.S. History II 1 Credit

U.S. History II dynamically explores the people, places, and events that shaped United States history after World War II. This course stretches from World War II to the Modern Era, leading students through a careful examination of the defining moments that paved the way for the United States of today. As they study the history of the United States, students will learn critical thinking skills by examining the constitutional foundations of the U.S. government.

Honors U.S. History II 1 Credit

Honors U.S. History II dynamically explores the people, places, and events that shaped early United States history. This course stretches from World War II to the modern Era, leading students through a careful examination of the defining moments that paved the way for the United States of today. As they study the history of the United States, students will learn critical thinking skills by examining the constitutional foundations of the U.S. government. Outside reading and related projects may be included in the course.

World History 1 Credit

This course provides interactive course content that will challenge high school students to learn about the political, economics, and social aspects from 1350 to the present. This highly engaging course encourages students to explore the major revolutions and social movements that have influenced different parts of the world. During this course, students will be exposed to a variety of pressing issues that have garnered opportunities for both conflict and cooperation in the modern world.

Government and Issues 1 Credit

This course provides students with a practical understanding of the principles and procedures of government. The course begins by establishing the origins and founding principles of American government. After a rigorous review of the Constitution and its Amendments, students investigate the development and extension of civil rights and liberties. Lessons also introduce influential Supreme Court decisions to demonstrate the impact and importance of constitutional rights. The course builds on this foundation by guiding students through the function of government today and the role of citizens in the civic process and culminates in an examination of public policy and the roles of citizens and organizations in promoting policy approaches. Throughout the course, students examine primary and secondary sources, including political cartoons, essays, and judicial opinions. Students also sharpen their writing skills in shorter tasks and assignments, and practice outlining and drafting skills by writing full informative and argumentative essays.

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Psychology/Physiology 1 Credit

Providing insight into the human dynamics of our diverse society, Psychology/Sociology delves into the fundamental concepts of psychology and sociology. The interactive course, designed for high school students, covers cultural diversity and conformity, basic structures of society, individuals and socialization, concepts in research, theory and human behavior. Students analyze learning, personality and behavior from the perspective of major theories within psychology, including the biological, psychosocial and cognitive perspectives. From a psychological point of view, students investigate the nature of being human as they build a comprehensive understanding of traditional psychological concepts and contemporary perspectives in the field.



## **ENGLISH**

English 9 1 Credit

This freshman-year English course engages students in literary analysis and inferential evaluation of great texts both classic and contemporary. While critically reading fiction, poetry, drama, and literary nonfiction, students will master comprehension and literary-analysis strategies. Interwoven in the lessons across two semesters are activities that encourage students to strengthen their oral language skills and produce clear, coherent writing. Students will read a range of classic texts including Homer's The Odyssey, Shakespeare's Romeo and Juliet, and Richard Connell's "The Most Dangerous Game." They will also study short but complex texts, including influential speeches by Dr. Martin Luther King Jr., Franklin D. Roosevelt, and Ronald Reagan. Contemporary texts by Richard Preston, Julia Alvarez, and Maya Angelou round out the course.

English 10 1 Credit

Focused on application, this sophomore English course reinforces literary analysis and twenty-first century skills with superb pieces of literature and literary nonfiction, application e-resources, and educational interactives. Each thematic unit focuses on specific literary analysis skills and allows students to apply them to a range of genres and text structures. As these units meld modeling and application, they also expand on training in media literacy, twenty-first century career skills, and the essentials of grammar and vocabulary. Under the guidance of the Writing software, students also compose descriptive, persuasive, expository, literary analysis, research, narrative, and compare-contrast essays.

English 11 1 Credit

This junior-year English course invites students to delve into American literature from early American Indian voices through contemporary works. Students engage in literary analysis and inferential evaluation of great texts as the centerpieces of this course. While critically reading fiction, poetry, drama, and expository nonfiction, students master comprehension and literary analysis strategies. Interwoven in the lessons across two semesters are tasks that encourage students to strengthen their oral language skills and produce creative, coherent writing. Students read a range of short but complex texts, including works by Ralph Waldo Emerson, Emily Dickinson, Herman Melville, Nathaniel Hawthorne, Paul Laurence Dunbar, Martin Luther King, Jr., F. Scott Fitzgerald, Sandra Cisneros, Amy Tan, and Dave Eggers.

English 12 1 Credit

This senior-level English course offers fascinating insight into British literary traditions spanning from Anglo-Saxon writing to the modern period. With interactive introductions and historical contexts, this full-year course connects philosophical, political, religious, ethical, and social influences of each time period to the works of many notable authors, including Chaucer, William Shakespeare, Queen Elizabeth I, Elizabeth Barrett Browning, and Virginia Woolf. Adding an extra dimension to the British literary experience, this course also exposes students to world literature, including works from India, Europe, China, and Spain.

#### **ELECTIVES**

Introduction to Business 1 Credit

In this course, students learn the principles of business using real-world examples—learning what it takes to plan and launch a product or service in today's fast-paced business environment. This course covers an introduction to economics, costs and profit, and different business types. Students are introduced to techniques for managing money, personally and as a business, taxes and credit; the basics of financing a business; how a business relates to society both locally and globally; how to identify a business opportunity; and techniques for planning, executing, and marketing a business to respond to that opportunity.

Personal Finance 1 Credit

Personal Finance is designed to develop a class of financially literate students. They will have the knowledge, skills, and confidence to begin taking charge of their financial future. Budgeting, saving, making investments, and handling credit are financial skills that all individuals need to know. This course is recommended for any senior whether they are college bound or planning on entering the job market immediately upon graduation.

Art Appreciation 1 Credit

Covering art appreciation and the beginning of art history, this course encourages students to gain an understanding and appreciation of art in their everyday lives. Presented in an engaging format, Intro to Art provides an overview of many introductory themes: the definition of art, the cultural purpose of art, visual elements of art, terminology and principles of design, and two- and three-dimensional media and techniques. Tracing the history of art, high school students enrolled in the course also explore the following time periods and places: prehistoric art, art in ancient civilizations, and world art before 1400.



Foods and Nutrition 1 Credit

This course explores the history and evolution of food products, along with the processing methods that have arisen to feed an ever-growing world population. Students will investigate the economic, environmental, and nutritional benefits of the food students are eating in a series of projects that supplement the studies and assessments. Health concerns and best practices in quality assurance, inspections, and labeling are reviewed. The course prepares students for a variety of possible educational and career pathways in the food industry. Students learn industry terminology in each area of the overall system, from "farm to fork" to vertical integration to smart packaging.

PE I .5 Credit

PE I promotes the value of lifetime physical activity and includes instruction in injury prevention, nutrition and diet, and stress management. The online course shows students how to set and track achievable goals. It also provides students with exercise recommendations for frequency, intensity, time and type. This class promotes maintaining a healthy lifestyle.

PE II .5 Credit

Building upon PE I, PE II promotes the value of lifetime physical activity and includes instruction in injury prevention, nutrition and diet, and stress management. The online course shows students how to set and track achievable goals. It also provides students with exercise recommendations for frequency, intensity, time and type. This class promotes maintaining a healthy lifestyle.

Health .5 Credit

Health education provides students with practical knowledge that will enable them to maintain wellness throughout their lives. The course emphasizes intelligent decision-making and the need to take responsibility for one's own health. Topics include, but are not limited to general wellness, mental health/disorders, nutrition, alcohol and drugs, and anatomy, which is an introductory level of the human body. This course would be especially useful for students whose ultimate goal is to enter the healthcare profession.

Spanish I 1 Credit

This course allows for an individualized development of the Spanish language through the study of the core grammatical structures and the vocabulary necessary for elementary communication. Spanish I also provides students with an introduction into the traditions and customs of Spanish-speaking people across the world.

Spanish II 1 Credit

In level two students continue to develop language skills in all four areas of communication: listening, reading, speaking and writing. At this level students expand their vocabulary knowledge and study more advanced grammar structures. Students will comprehend language at an increased level of complexity and speed. In addition, students develop an acceptance of diversity by exploring specific elements of the Latin-American culture.

French I 1 Credit

This proficiency-based course is for students who are beginning their study of a foreign language. Active participation is required from each student as he/she develops written and oral communication skills as well as reading and listening comprehension of the language. This course will introduce basic vocabulary, grammar and verb tenses, which will be built upon in subsequent levels. Students will be introduced to various cultures as they are presented through thematic units.

French II 1 Credit

This proficiency-based course builds upon skills mastered in level one. Listening, speaking, reading and writing skills are reinforced through proficiency-based activities. Students explore more complex grammar structures that are embedded in various texts at a more in-depth level. This course also requires more active participation from students so that they may develop better communication skills. Students will explore the culture as it is presented through thematic units.

French III 1 Credit

Students who are enrolled in French III will continue to improve their skills in speaking, writing, listening, and reading. It is expected that students maintain French as much as possible in class, and outside of class, to refine their speaking and listening skills. Students will be assessed according to their performance on spoken dialogues, conversations, presentations, listening activities, written exercises, and other communicative exercises.

Careers in Public Safety 1 Credit

In this course, students learn about the many careers that exist within the fields of law, law enforcement, public safety, corrections, and security. In addition to learning about the training and educational requirements for these careers, students explore the history of these fields and how they developed to their current state. Students also learn how these careers are affected by and affect local, state, and federal laws. Finally, students examine the relationships between professionals in these fields and how collaborations between professionals in these careers help to create a safer, more stable society.



#### **Family and Community Services**

1 Credit

Family and Community Services introduces applications within professions related to family and community services. Students identify degree and credential requirements for occupations in this pathway and identify individual, social, historical, economic, and cultural context to increase awareness of family and community services. Students develop the abilities necessary to evaluate and identify a range of effective communication strategies and skills for establishing a collaborative relationship with others. Students also complete a variety of projects to apply their skills and knowledge. Units are divided among career fields: Social Workers, Emergency Management and Planners, Therapists and Treatment Specialists, Education and Childcare.

Careers in Allied Health 1 Credit

Careers in Allied Health focuses on select allied health careers, studying a variety of different levels, responsibilities, settings, education needs and amounts of patient contact. The course includes an overview of the degree or training needed for each job, the environment one would work in, how much money the position could make, and the facts of the actual working day. Within each job type, students explore important aspects applicable to the entire field of allied health, such as behaving ethically, working as a team, keeping patients safe and free from infections and germs, honoring diverse needs of diverse patients, and following laws and policies.

## **Leadership and Career Development**

1 Credi

This course is for students who wish to learn how to choose a college or career, complete a college/job application, apply for scholarships, prepare for a career by building your resume and cover letter, and develop interviewing skills.

## **Strategies for Academic Success**

1 Credit

Strategies for Academic Success is a comprehensive study skills and strategies course designed for high school students. The course covers important study skills topics such as time management, note taking, online learning skills, and strategies for remembering key information. Within the course, students receive real-world activities to further enhance learning.

#### **Introduction to Careers in Education**

1 Credit

This course will introduce students to the field of education and training, and the opportunities available for early-childhood care, primary school, secondary school, higher education, vocational training, and adult and continuing education. It provides a thorough exploration of pedagogy, curriculum, standards and practices, and the psychological factors shown by research to affect learners. Students will gain an understanding of the career options available in teaching and support services. They will also explore the education and background experience needed to succeed in these careers.

### **Careers in Therapeutic Services**

1 Credit

This course focuses on careers that help restore and maintain mobility and physical and mental health, such as physical therapy, occupational therapy, athletic training, dietetics, art therapy, neurotherapy and registered dental hygiene. Each career is explored in depth examining typical job duties, education requirements and working conditions. Key concepts and specific skill sets are introduced in the lessons, allowing students to apply what they have learned to therapy-based careers. This course may be tailored to fit a student's potential career interest.

#### **Introduction to Human Services**

1 Credit

This course introduces students to the possibilities for careers in social work and human service professions. Through anecdotes, lessons, and a variety of assignments and projects, students will learn about the broad variety of jobs available in human services. Students will learn exactly what the human

services are and the ethics and philosophies of the helping professions. Students will study the impact of the cultural, social and economic environment on individual people, especially those who need social services assistance.

#### **Introduction to Careers in Government**

1 Credit

This course will provide students with an overview of American politics and public administration, including how political institutions and public management systems at the local, state, and federal levels exercise supervisory authority and maintain accountability. Students will learn about the foundations of the U.S. government, the separation of powers, the federal civil service system, and the relationship between the government and state and local officials. They will also learn about governmental powers of the states and of local governments, such as education, law enforcement, and transportation. Students will learn about politics in the United States and the electoral process, political attitudes and opinions, and American political parties. They will also learn about the structure of U.S. federal governmental institutions, the nature of bureaucracy, and the functions of the executive, legislative, and judicial branches of government. Students will also learn about policy making in American government, including discussions of foreign and defense policies. After completing this course, students will have a fundamental understanding of U.S. government and public administration. They will be able to explain the history and structure of the government, how the government functions and relates to state and local governments, and how the government creates and enforces public policies.





# **CLUBS AND ACTIVITIES**

#### Anime – Ms. Bruno

Anime Club watches and discusses the story lines and artistic merits of different anime series. This club discusses the upcoming (CONS) and other events in the area. Research and discussion topics include: higher learning institutes for those interested in careers in the film, clothing, gadgets, and anime gaming industries.

#### *Archery – Mr. Fillinger*

The Archery Club meets a couple days a week after school from October through May. We use only NASP approved Genesis bows and arrows. Students have the opportunity to compete in local, state and national competitions to earn scholarships for continuing their education. Our yearly trips have included the NASP State competition at Penn State Main and, upon qualifying, the NASP National competition in Louisville, KY.

## Big Brothers/Big Sisters – Mrs. Popp

This organization provides high school students (Bigs) the opportunity to be a mentor for elementary school students (Littles). Bigs meet with Littles once a week after school to do activities and to provide mentorship.

#### Chess Club - Dr. Lambert

The Chess Club meets on Thursday's from 3:00-4:00 p.m. in the Middle School Cafeteria. Dr. Lambert teaches students the rules of chess and holds a chess tournament in the fall and spring. Chess Club begins in October and ends in May.

#### Evirothon Team – Mr. Poellnitz

The Envirothon Team is an opportunity for students to discuss ways to be environmentally responsible locally. Students also have a chance to participate in the Beaver County Conservation District sponsored Envirothon competition in the spring.

#### *Gay Straight Alliance – Ms. Antoline*

The GSA at NBHS will work to create an LGBTQ+ safe space, promote an accepting environment, and work to increase self-esteem in group members. This group will work to remove stereotypes and reduce feelings of isolation. The group will support all orientations and educate our school environment, staff and community in order to accept and support diversity.

## *Interact Club – Mr. Tabay*

Interact Club is a service-based club in which members volunteer their time to help and serve others through various projects at school and in the community. Members are to have a minimum of 5 volunteer hours per year.

#### Interscholastic Unified Sports Bocce

IUS Bocce teams join students with and without disabilities in competition against other schools. New Brighton competes in the Beaver Country North Division against Riverside, Beaver Falls, Blackhawk, and Rochester. Bocce is a winter sport with practices and games taking place from December through mid-March.

#### *Library Aides – Mrs. Berger*

Library Aides volunteer during their scheduled study hall. Under the supervision of the high school librarian, they provide support in the day-to-day operations of the school library and assist with book circulation and collection maintenance, clerical duties, and customer service. They develop leadership and responsibility and improve soft skills such as communication, teamwork, problem solving, creativity, and critical thinking. Students must submit an application to be considered.

## Lioness - Mrs. Beilstein

Lioness Club is an after-school club that organizes the winter dance and volunteers at the Special Olympics in the spring.

## *Mock Trial – Ms. Debogovich*

Performance Forensics is a public speaking course based on the Mock trial statewide competition sponsored by the Pennsylvania and Beaver County Bar Associations. This course can be taken as an elective for one (1) credit or the student may choose to participate as an activity. Refer to page 34 in the curriculum book.

#### Musical – Mrs. DeMarco

The New Brighton Musical has a tradition of excellence with more than 30 Mancini Award nominations and at least 12 Mancini Awards won. High energy and fast paced rehearsals begin in November and culminate to three performances at the end of February or the first week of March. Rehearsals are in the auditorium after school and include a few Saturdays at the end of January and February. An audition is required and can be done in small groups. Opportunities for student involvement include ensemble, lead character, featured dancer, student director, orchestra or stage crew. Listen for an informational meeting and audition preparation in October.



## *National Honor Society – Mr. Tabay*

NHS recognizes outstanding student achievement in the areas of scholarship, leadership, service, and character.

#### SADD/SHIELD Club – Mr. Pasquale

This club organizes and advertises events and ideas about making smart decisions in regard to drugs and alcohol. This club also works closely with the New Brighton Police Department on these events to help promote a safe environment for all students and staff.

#### Stage Crew – Mrs. DeMarco

If you want to be a part of the musical production but you don't like performing, then stage crew is for you! As a member of stage crew, you will help to build and paint the sets. In addition to that, you will be a key in the success of each performance of the musical, as you will be helping to move sets and props in between scenes. Stage crew starts building sets in January, and the commitment continues through the end of the show at the end of February. Members will meet in the evenings for building and will start building/painting on Saturdays starting in January. Listen for an informational meeting in December. Stage crew counts as community service hours.

#### Student Council –Mrs. Szymoniak

Voted in by their peers and by the recommendation of their teachers, Student Council members are positive and hard-working students who represent their classmates. They share ideas with administration and with other students, often communicating information between their classmates and staff. NBHS Student Council plans, organizes and works many key events: blood drives, Open House, Highway Clean-up, the Haunted Auditorium, Freshman Orientation, and Paw Prints.

#### Student Outreach Club - Ms. Keith

This is a student-led faith based club. Student Outreach Club meets to discuss bible studies, youth events, and faith in modern society. The students also participate in outreach events within the community and amongst their peers.

#### Student Voice – Mr. Yates

Student Voice is a student led panel that meets with the high school principals as needed. This panel of students discusses student or building level issues and plays a part in making school-wide decisions. Meetings take place during the school day.

#### Ushers Club – Mrs. Berger

Ushers are responsible for meeting, greeting, and welcoming visitors to a variety of NBHS activities and programs. An usher is often the first person that a visitor talks to when they attend an event. First impressions count! Ushers assist with handing out programs, collecting tickets, coats, etc. as needed, directing visitors to seats, sections, bathrooms, etc., and answering visitors' questions and directing them to a faculty member if needed. Ushers occasionally provide assistance at community events located off-campus.

#### *Unified Youth Committee – Ms. Antoline*

New Brighton's Unified Youth Committee is an extension of Special Olympics of Pennsylvania and is focused on uniting students with and without disabilities to promote inclusion and improve school climate. This committee meets regularly throughout the school year to identify issues and develop plans to address them. They promote "Fans in the Stands" for the school's Bocce team and hold the annual "Spread the Word" inclusion event.

#### What's up New Brighton – Mr. Salvucci

This student driven Internet Talk Show showcases our school and community, people, events, and history.

#### Youth Ambassadors – Ms. Antoline

The Youth Ambassador Program (YAP) is a youth-centered, youth-driven program operating in Beaver County schools that promotes awareness of current issues that youth face today. The goals of the program are to increase awareness of mental health and wellness; to decrease stigma associated with mental illness; and to promote leadership and self-advocacy. YAP members participate in club activities at their school to spread the information to other youth, family members, and the community to address relevant issues in their districts.



## NON-DISCRIMINATION POLICY

New Brighton Area School District is an equal opportunity education institution and will not discriminate on the basis of race, color, national origin, sex, handicap, or limited English proficiency in its activities, programs or employment practices as required by Title VI, Title IX and section 504.

## CONFIDENTIALITY OF STUDENT RECORDS

The New Brighton Area School District has written policies which address the right of privacy and confidentiality of student records including those of exceptional students. These policies describe procedures for the collection, care, and sharing of student records.

Your child's record may contain various kinds of information such as results of informal testing, attendance, test scores, school achievement, and descriptive information about your child such as height, weight, birth date, and address. The record may also include parent consent forms, reports of all formal assessments such as psychological reports, results of multi-disciplinary team meetings, copies of Individual Education Programs (IEPs), Notice of Recommended Educational Placement (NOREPs), and requests for release of information for file review.

Parents must give written permission to share items in the record with outside agencies. Written parental consent for release of exceptional pupil records is not necessary if a request is made by authorized representatives of the Comptroller General of the United States, Commissions of Education, or the Director of the National Institute of Education; state or local officials as required by state laws or when the health, safety, or welfare of the child is in danger; and/or educational agencies who are providing or will be providing educational services for the child.

The information in your child's school records is available to you. You may see your child's record and receive a copy by making a request in writing to the High School Principal. Any information in your child's record can be challenged through written communication to the Superintendent of Schools.

Students and parents can request an academic transcript by contacting the guidance secretary. An Academic Release of Information form must be completed by parents in order for New Brighton High School to release your child's transcript to any academic institution.

## PARTICIPATION OF EXCEPTIONAL STUDENTS

No exceptional students shall be denied because of handicap, participation in co-curricular, intramural or interscholastic activities or any of the services offered or recognitions rendered regularly to the students of the New Brighton Area School District unless such participation is not practical because of the handicap.

