

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

**2026-2027  
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

**School Counselors**

Counselor, Last Name A-L ..... Ms. Aimee Young  
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)*

*This publication is not to be viewed as an irrevocable contract between the School District and any other party and the contents are subject to change consistent with the policies of the School Board. The School District reserves the right to repeal, change, alter or amend the provisions contained in this publication and may withdraw or add to or modify the materials listed herein. The principal shall have all final decisions on any scheduling conflicts. The School District disclaims any liability for any changes as are hereinabove described and further disclaims any liability for typographical errors or other errors arising in the publication process.*

# Contents

THE SCHEDULING PROCESS .....	3
PROCEDURAL REQUIREMENTS .....	3
SCHEDULE CHANGES .....	3
GRADUATION AND CREDIT REQUIREMENTS.....	3
PATHWAYS TO GRADUATION.....	4
GRADE REPORTING .....	5
GRADING SCALE.....	6
INCOMPLETE GRADES.....	6
COURSE OFFERINGS .....	7
ENGLISH.....	9
MATHEMATICS.....	12
SOCIAL STUDIES .....	15
SCIENCE .....	18
LANGUAGE.....	22
BUSINESS & INFORMATION TECHNOLOGY .....	23
HEALTH AND PHYSICAL EDUCATION .....	26
MUSIC .....	27
TECHNOLOGY EDUCATION.....	29
FAMILY AND CONSUMER SCIENCES.....	31
ART .....	32
GENERAL ELECTIVES/SPECIALIZED PROGRAMS .....	34
CCBC DUAL ENROLLMENT & ACADEMIES.....	36
COLLEGE IN HIGH SCHOOL (CHS).....	39
BEAVER COUNTY CAREER & TECHNOLOGY CENTER.....	40
CLUBS AND ACTIVITIES.....	42
NON-DISCRIMINATION POLICY.....	44
CONFIDENTIALITY OF STUDENT RECORDS .....	44
PARTICIPATION OF EXCEPTIONAL STUDENTS.....	44

# 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 6.5 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.*

## GRADUATION AND CREDIT REQUIREMENTS

Students in the class of 2026-2029 must earn at least 27 credits during their high school career in order to meet graduation requirements. As Freshmen, students must earn at least 6.5 credits to be recognized as a Sophomore, at least 13 credits by the end of the Sophomore year to be recognized as a Junior, and at least 20 credits by the end of their Junior year to be recognized as a Senior.

Diploma.....	27 credits	(this includes credit for the Career Portfolio)
Senior .....	20 credits	
Junior.....	13 credits	
Sophomore .....	6.5 credits	

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

**CLASS OF:**  
**2027, 2028, 2029, 2030**

English .....	4	Electives .....	6.0
Math* .....	4	Physical Education .....	1
Social Studies.....	4	Computer/Business* ....	0.5
Science* .....	4	Practical & Fine Arts* ....	1
Health .....	0.5	Personal Finance.....	0.5
Career Portfolio by end of junior year .....	1		
TOTALS .....	27		

\*The successful completion of two credits of Algebra, one credit of Geometry & Biology, in addition to all other courses/subjects listed above, are required for graduation.

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

**Variations in the graduation requirements for CCBC Academy students are listed on Page 36-38.**

**Variations in the graduation requirements for BCCTC students are listed on Page 40-41.**

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 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: [Statewide High School Graduation Requirement](#).

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

**Keystone Composite Pathway:** 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.

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

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

- Attainment of 3 or better on any AP exam
- Successful completion of any concurrent or post-secondary course
- Industry-recognized credentialization
- 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**

- Attainment of Proficient or Advanced on ANY Keystone Exam
- Successful completion of a Service Learning Project
- Letter guaranteeing full-time employment or military enlistment upon graduation
- Completion of an internship, externship or cooperative education program
- 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](http://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 and PTC articulation agreement courses 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 ( $95 \times 1.1 = 104.5$  percent).
- All final grades earned in an AP, CHS or approved Dual Enrollment (CCBC Academies Included) Courses are multiplied by a weight of 1.2.  
Example: AP Biology; earned grade is 95 percent. Weight is 1.2, Weighted Percentage = 114 ( $95 \times 1.2 = 114$  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 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.

# **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 Literature & Composition  
Communications  
Creative Writing

## **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

## **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**

Anatomy & Physiology  
Biology & Lab  
Honors Biology & Lab  
Chemistry  
Honors Chemistry & Lab  
Physics  
Honors Physics & Lab  
AP Chemistry & Lab  
AP Biology & Lab  
Astronomy  
Conceptual Chemistry  
Conceptual Physics  
Earth Science  
Environmental Science

## **SCIENCE (cont.)**

Forensic Science  
Microbiology  
3D Design (General Elective Only)

## **LANGUAGES**

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  
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**

CHS Intro to Business  
CHS Microsoft Office Applications II  
CHS Chemistry  
CHS Anatomy & Physiology  
CHS European History  
CHS Writing & Literature

\*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 II  
Manufacturing Systems I  
Manufacturing Systems II  
Manufacturing Enterprise  
Production Technology I  
Production Technology II  
Computer Aided Design (CAD) I  
Computer Aided Design (CAD) II  
Computer Aided Design (CAD) III

## **+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**

Color Guard – 1<sup>st</sup> Semester Course  
Instrumental Music (Band)  
Honors Instrumental Music (Band)  
Concert Choir  
Honors Chamber Choir  
Music Theory  
Intro to Music Technology  
Jazz Band  
Modern Band  
Music Technology II  
Color Guard/Instrumental

## **GENERAL ELECTIVES/SPECIALIZED PROGRAMS**

Performance Forensics (Mock Trial)  
Honors Performance Forensics  
SAT Prep  
Dual Enrollment  
Lions On-Line Academy  
Release  
Internship and Employment Theory I  
Internship and Employment Theory II  
English Language Instruction  
Career Portfolio  
CCBC Aviation Academy  
    - Professional Pilot  
    - Air Traffic Control  
    - Aerospace Management  
CCBC Business  
CCBC Criminal Justice  
CCBC Health Academy  
    - Allied Health/Nursing  
    - Allied Health/Radiologic Technician  
    - Allied Health Sciences  
CCBC STEM Academy  
    - Engineering  
    - Computer Science  
    - Cybersecurity  
CCBC Education 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/Bricklaying  
Protective Services  
Welding  
Vet Tech

**+ 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, creative writing, 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*

English 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, plays, nonfiction writing 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 week 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. 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, 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 nine-week 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****8011 CHS WRITING & LITERATURE****GRADE 12****1 year—1 credit—1.2 weight****PREREQUISITE:** *High-Proficiency Score or Advanced Reading and Writing Skills as determined by high school performance, standardized test scores, and/or teacher recommendation.*

Students will practice expository writing and learn the academic form of the essay and research paper. Students will focus on the development of an academically sound and challenging thesis and resulting essay. The mechanics of writing will be reviewed as needed. In addition, this course introduces students to the three major forms of literary expression: fiction, poetry, and drama. Significant works from each form will be analyzed to reveal creative techniques, how they represent an author's time, and how they reflect today's human condition.

**Students enrolled in this class are encouraged to register for the CHS Chemistry Option or take the AP English Literature & Composition exam in May. The exam cost is the financial responsibility of the student.**

---

## 3015 COMMUNICATIONS

---

### **GRADE 11, 12**

***1 semester—.5 credit***

***PREREQUISITE:*** 11<sup>th</sup> Graders Must Score Proficient/Advanced on Keystone Exams; No requirements for 12<sup>th</sup> grade students.

This Communications course aims to equip high school students with essential communication techniques, presentation strategies, and public speaking skills that are crucial for academic and professional success. This course emphasizes building confidence, refining speech delivery, enhancing non-verbal communication, and developing compelling content for various presentation settings. Students will engage in a range of interactive activities, including public speaking, peer reviews, group projects, and digital media presentations.

---

## 3016 CREATIVE WRITING

---

### **GRADE 11, 12**

***1 semester—.5 credit English or Elective***

***PREREQUISITE:*** 11<sup>th</sup> Graders Must Score Proficient/Advanced on Keystone Exams; No requirements for 12<sup>th</sup> grade students.

This course will cultivate a creative outlook on writing, enabling students to cultivate self-expression. Students will learn the different modes of writing and emulate them (e.g. short fiction, creative non-fiction, poetry) through the use of mentor texts. In addition, students will regularly participate in writing workshops. The workshops will focus on the examination of published works, and review each other's original works. Students will explore, grow and refine their authorial voice through diction, tone, and purpose. To culminate the semester, a writing portfolio along with submission of a work to a contest or a publication will be required. The class is geared towards students who enjoy writing, and have a fundamental command of the English language and literary concepts.

# 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** only counts for .5 credit for NCAA

---

#### **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 I 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.

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** only counts for .5 credit for NCAA

---

#### **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 course 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.

---

### **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.

---

### **3105 ALGEBRA II**

---

#### **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 techniques to solve problems and apply those techniques to real world situations.

---

### **3103 ALGEBRA IA** only counts for .5 credit for NCAA

---

#### **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

---

**3106 HONORS ALGEBRA II****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 and Rational Functions. More emphasis will be placed on independent learning and discovery.

---

---

**3107 GEOMETRY****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.

---

---

**3108 HONORS GEOMETRY****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.

---

---

**3109 TRIGONOMETRY/PRE-CALCULUS****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.

---

---

**3111 CALCULUS****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.

---

---

### 3113 AP CALCULUS (Calculus AB)

---



#### **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

---



#### **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 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, 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 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, 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 8010 CHS 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 register for the CHS Chemistry Option or 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******PREREQUISITE: None***

This course is designed to give 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.

---

### 3402 BIOLOGY & LAB



#### GRADE 9

**1 year – 1 credit**

**PREREQUISITE:** None

Biology & Lab is a first-year biology course which provides students with an overview of the life sciences by seeking answers to questions centered around the diversity and connections of life on Earth. Students will be expected to think and act like scientists and engineers whose controlled, repeated, fair and accurate methods help to validate claims with evidence to be explained with scientific reasoning. Themes included in the course include; structure & function, growth & development, connections & complexity within ecosystems, inheritance & variety of traits, ancestry & diversity of life on Earth, social & group behaviors, and adaptations & natural selection. Throughout the course, students are expected to maintain an organized folder/notebook, participate appropriately in hands-on lab activities weekly, and study for unit exams so that they are better prepared to reach proficiency on the Keystone Biology exam given in May.

---

### 3403 HONORS BIOLOGY & LAB



#### GRADES 9

**1 year – 1 credit – 1.1 weight – 7 periods per week**

**PREREQUISITE:** Teacher recommendation

Honors Biology & Lab provides students with a more in-depth overview of the biological sciences at a faster pace than course 3402, but covers the same content for the Keystone Biology exam in May. This weighted, honors course prepares students for future Honors and Advanced Placement science courses at NBHS.

---

### 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 and proficient or advanced on the Keystone Biology Exam.

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 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****8008 CHS 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 products 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 components 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 positions of these equilibria.

**Students enrolled in this class are encouraged to register for the CHS Chemistry Option or take the AP Chemistry exam in May. The exam cost is the financial responsibility of the student.**

---

**3408 ANATOMY & PHYSIOLOGY****8009 CHS 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:** *None*

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****PREREQUISITE:** *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:** *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:** *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.

---

**3419 3D DESIGN****(General Elective)****GRADES 11 & 12****1 semester – .5 credit****PREREQUISITE:** *None*

In this course, students will focus on 3D Printing and Laser Engraving. You will design 3D objects using a program called TinkerCad and learn how to laser engrave using various machines.

---

**3416 FORENSIC SCIENCE****GRADES 11 & 12****1 semester – .5 credit****PREREQUISITE:** *None*

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, 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.

## LANGUAGE—*Electives*

---

### **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 10, 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. Personal finance must account for .5 of that credit. \*Students who complete Accounting I, II, III & IV can opt to allow this credit to count as one math credit toward graduation requirements.

## **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 *Alaumur*.

If you're interested, please see Ms. Runatz for an application prior to scheduling.

---

### **6504 PERSONAL FINANCE**

**GRADES: 10, 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. \*\*\* (Will become a graduation requirement beginning with the class of 2030)

---

### **6505 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**

**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**

**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**

---

**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. Accounting III and IV may be taken as a math credit.

---

**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!

---

**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**

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**

---

**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.

---

**6512 MICROSOFT OFFICE APPLICATIONS II**

---

**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.

---

**6516 VIDEO PRODUCTION I**

---

**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.

---

**6518 NBHS TV**

---

***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. Students should be prepared to be recorded on camera and participate in the announcements.

# 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, journal entries and worksheets.

---

## **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**

**1 semester— .5 credit**

**PREREQUISITE:** *No medical conditions limiting participation, have not failed PE in High School and teacher approval*

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.

## MUSIC—*Practical and Fine Arts Electives*

---

### 6701 CONCERT CHOIR

---

**GRADES 9, 10, 11, 12**

**1 year—1 credit**

**PREREQUISITE:** *Permission of Instructor*

Concert Choir is a non auditioned vocal ensemble open to students in grades 9-12 who enjoy singing and want to grow as musicians. No prior experience is necessary – only a willingness to learn and participate is needed! Students will develop vocal technique, music reading skills, and ensemble performance through daily rehearsals and a variety of music styles. Participation in concerts and school events is required and counts toward the final grade. Concert choir is a great place to build confidence, make music, and be a part of a team.

---

### 6702 HONORS CHAMBER CHOIR

---

**GRADES 10, 11, 12**

**1 year—1 credit – 1.1 weight**

**PREREQUISITE:** *Audition and permission of Instructor*

This advanced vocal ensemble is open to students in grades 10-12 who demonstrate strong vocal ability and musicality through an audition process. Students will explore a variety of musical styles and be challenged with high-level repertoire. Daily rehearsals focus on vocal technique, harmony, musicianship, and ensemble collaboration. Participation in concerts and special performances is required. Strong commitment and a passion for singing are essential to success in this class.

---

### 6703 INSTRUMENTAL MUSIC (BAND)

---

**GRADES 9, 10, 11, 12**

**1 year—1 credit**

**PREREQUISITE:** *Permission of Instructor*

Students will learn individual and team responsibility, as well as, cooperation skills through peer teaching. Students may be selected to participate in select ensembles as a result of auditions and available instrumentation. Students may receive additional individual or sectional instruction during their free periods. Included and required in this course is after-school and summer practices/performances, football games, parades, and band festivals. Students must commit to practicing outside of school hours. Students will receive additional graded written work at the discretion of the director. Students enrolled in this course must participate in concert band AND marching band.

---

### 6704 HONORS INSTRUMENTAL MUSIC (HONORS BAND)

---

**GRADES 10, 11, 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 students who are enrolled in instrumental music with the addition of learning more scales and repertoire. Students enrolled in Honors Instrumental Music will also be required to learn a solo piece for the Pennsylvania Music Educators Association's (PMEA) District 5 Honors Band Festival audition. Students may choose to audition for the instructor instead of attending the festival auditions.

---

### 6705 COLOR GUARD

---

**GRADES 9, 10, 11, 12**

**1 semester—.5 credit**

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

Color Guard 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 Color Guard, membership is after-school participation in all Marching Band functions and Rehearsals scheduled throughout the summer and school year.

---

### 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.

---

**6708 MUSIC THEORY**

---

**GRADES 9, 10, 11, 12****1 year—1 credit****PREREQUISITE:** None

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.

---

**6710 COLOR GUARD/INSTRUMENTAL MUSIC**

---

**GRADES 9, 10, 11, 12****1 Semester— 1 Credit****Prerequisite:** *Successful Color Guard audition & Instrumentalist.*

This year-long course combines color guard and concert band, offering students a chance to grow both visually and musically. In the fall, students join the Color Guard, where they perform with the marching band at events like pep rallies, football games, and parades. The spring semester transitions to Concert Band focusing on instrumental performance across various musical styles. Students will rehearse and perform in the concert band for the spring concert. This course is open to students who have completed a successful Color Guard audition and are also instrumentalists.

---

**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 Presonus. Students should expect to work independently and collaboratively to produce music of various genres.

---

**6712 MODERN BAND**

---

**GRADES 9, 10, 11, 12****1 Semester .5 Credit****PREREQUISITE:** None

Modern Band is a course for students who are interested in playing or singing in a small rock/pop ensemble. This course will utilize alternative notation to introduce students to guitar, bass guitar, drum set, and piano. Students will also explore songwriting and singing. This course is open to those who have no previous instrumental training as well as experienced musicians. Performance opportunities outside of the school day will be provided as they become available.

# TECHNOLOGY EDUCATION—*Practical and Fine Arts Electives*

---

## 6811 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:** *Engineering & Graphics*

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 Systems I & II*

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.

---

**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.

---

### **6902 FOODS AND NUTRITION II**

---

**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 & Nutrition II*

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.

---

### **6905 ELEMENTARY EDUCATION II**

---

**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 in-depth 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<sup>TH</sup> GRADE CAREER PORTFOLIO

### 7008 – 10<sup>TH</sup> GRADE CAREER PORTFOLIO

### 7009 – 11<sup>TH</sup> 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.

---

### 4003 RELEASE

---

#### **GRADE 12**

**1 Semester—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 or having a later start to their day. There are no guarantees that the courses a student requests will accommodate a schedule that permits release.

---

**L7118 INTERNSHIP AND EMPLOYMENT  
THEORY I (FALL SEMESTER)**

---

**GRADE 11**

*1 semester—.5 credit*

**PREREQUISITE:** *Must have a part-time job with a minimum of fifteen (15) working hours per week.*

This pass/fail course for juniors is taken in conjunction with your part-time job. The course includes career and job related topics to help you thrive in the world of work AND the acquisition of employment or an internship. Students must be employed or participating in an internship in order to receive early release. The student must be employed or interning a minimum of 15 hours per week. A contract signed by the employer and another contract signed by the student and parent must be completed and returned to the Internship & Employment Theory instructor before the first day of classes. In addition to working/interning 15 hours per week, students will complete online work pertaining to career readiness and job related financial literacy. The student grade is based on course content, monthly hourly reports, quarterly employer evaluations, and monthly in-person meetings. Class size will be capped at 10 students per semester.

---

**L7119 INTERNSHIP AND EMPLOYMENT  
THEORY II (SPRING SEMESTER)**

---

**GRADE 11**

*1 semester—.5 credit*

**PREREQUISITE:** *Must have a part-time job with a minimum of fifteen (15) working hours per week.*

This pass/fail course for juniors is taken in conjunction with your part-time job. The course includes career and job related topics to help you thrive in the world of work AND the acquisition of employment or an internship. Students must be employed or participating in an internship in order to receive early release. The student must be employed or interning a minimum of 15 hours per week. A contract signed by the employer and another contract signed by the student and parent must be completed and returned to the Internship & Employment Theory instructor before the first day of classes. In addition to working/interning 15 hours per week, students will complete online work pertaining to career readiness and job related financial literacy. The student grade is based on course content, monthly hourly reports, quarterly employer evaluations, and monthly in-person meetings. Class size will be capped at 10 students per semester.

---

**7020 DUAL ENROLLMENT**

---

**GRADES 11 & 12**

*1 Semester—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 & transportation are the responsibility of 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 counselor. Students must express interest to participate with their counselor. \*\*\*Dual Enrollment courses taken outside of the CCBC Academies must be approved by the principal in order to receive credit towards graduation requirements.

---

**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

**7018 CCBC EDUCATION ACADEMY**

Offered beginning in Grade 11

**7019 CCBC BUSINESS ACADEMY**

Offered beginning in Grade 11

---

**GRADES 11 & 12**

*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. Families must contact CCBC to discuss financial assistance opportunities.

\*Students who participate in an academy are expected to complete all course requirements set forth by CCBC. Students who do not complete all requirements will lose academy status, will fall under the dual enrollment designation, and will be subject to a transcript review for additional course requirements towards graduation.



## CCBC College Here and Now: High School Pathways Programs

The Community College of Beaver County's (CCBC) College Here and Now: High School Pathways program offers high school students the opportunity to get a jumpstart on their future while still in high school. Students can take college courses through three different opportunities that CCBC offers: High School Academies, Dual Enrollment, and/or College in High School.

While students can earn college credits at a lower cost than traditional student tuition, *students are not eligible for financial aid for any of these options.*

New Brighton High School partners with CCBC on the following:

- College in High School
- Dual Enrollment
- High School Academies

### CCBC Dual Enrollment

#### What is it?

CCBC Dual Enrollment allows New Brighton High School students to take college courses through CCBC in-person or online. Students must be rising 10<sup>th</sup>, 11<sup>th</sup>, or 12<sup>th</sup> graders and have a 2.8 or higher high school GPA to participate in this program.

#### What's available?

The option of dual enrollment allows students to choose their courses through the CCBC course catalog. Maximum enrollment is two classes per semester unless otherwise approved by the Dean of College Here and Now.

Students can enroll in dual enrollment courses beginning in any semester including the summer.

#### How much is it?

Tuition rates follow standard CCBC tuition rates and are determined by residency. Students who reside in Beaver County pay the regular college in-county tuition rate and fees. Out-of-county students pay 1.5 times the in-county college tuition rate and fees. Students are also responsible for purchasing textbooks and lab kits as needed for their courses.

#### Need more information?

To enroll in this programming, please speak with your school counselor and visit <https://www.ccbc.edu/dual-enrollment>.

### CCBC High School Academies

#### What is it?

CCBC High School Academies allow New Brighton High School students to enroll in one of six college and career pathways. The six High School Academy pathways available are as follows: Aviation Academy, Health Academy, STEM Academy, Criminal Justice Academy, Construction Academy and Education Academy.

Students who attend during their 11<sup>th</sup> and 12<sup>th</sup> grade years will be able to complete up to 28 college credits toward CCBC's associate degree programs or transfer the credits to other colleges and universities. Through premier partnerships with 4-year colleges, many academy graduates can complete a bachelor's degree in three years or less.

Students participating in this programming will be able to select if they will attend in-person or virtually (synchronously) each day. This may vary by your school's requirements.

#### Do I qualify?

Students must be rising 11<sup>th</sup> or 12<sup>th</sup> graders to participate in the High School Academy programming and each academy has its own distinct admissions criteria. Students are accepted into the Academy programs for a fall semester start.

#### What's available?

New Brighton High School is currently partnering with CCBC offering the below academies for students to enroll:

Health Academy, Aviation Academy, STEM Academy, Mascaro Construction Academy, Criminal Justice Academy, and Education Academy

#### How much is it?

Tuition rates follow standard CCBC tuition rates and are determined by residency. Students who live in Beaver County pay the regular college in-county tuition rate and fees. Out-of-county dual enrollment students pay 1.5 times the in-county college tuition rate and fees. Students are also responsible for purchasing textbooks and lab kits as needed for their courses.

#### Need more information?

For more information on how to enroll in this programming and the admissions criteria for each of the High School Academies, please speak with your school counselor and visit: <https://www.ccbc.edu/high-school-academies>.



### **CCBC High School Aviation Academy**

Are you ready to start the exciting journey of becoming an aviation professional? Let your future take flight by joining the CCBC High School Aviation Academy. Through the Academy, high school students in grades 11 and 12 at participating school districts can spend a portion of their high school day on a CCBC campus or virtually, online live preparing for professional pilot, air traffic control, or aerospace management careers. Students who attend during their 11<sup>th</sup> and 12<sup>th</sup> grade years will be able to complete up to 28 college credits toward CCBC's associate degree programs or transfer the credits to other colleges and universities.

For more information about the CCBC High School Aviation Academy, the admission criteria and to view the courses visit <https://www.ccbc.edu/aviation-academy>



### **CCBC High School Health Academy**

Are you ready to start an exciting journey as a healthcare professional? The CCBC Health Academy is for high school students in grades 11 and 12 at participating high schools who are interested in careers in nursing, practical nursing, radiologic technology, physical therapy, respiratory therapy, nurse practitioner, physician assistant, nurse anesthetist, and physician and more. Students who attend during their 11<sup>th</sup> and 12<sup>th</sup> grade years can graduate from high school with up to 28 college credits completed toward CCBC's associate degree programs. Students who successfully complete all the coursework will be prepared to continue their studies toward an associate degree in nursing, radiologic technology, a diploma in practical nursing at CCBC, or pursue transferring credits to another

college or university for other healthcare professions of their choice.

Students who attend the health academy, maintain the required GPA, and successfully meet all admissions requirements can qualify for automatic admission into the CCBC RN program the fall after high school graduation. Automatic admission waives the admission test requirement for CCBC's nursing program.

For more information about the CCBC High School Health Academy, the admission criteria and to view the courses visit <https://www.ccbc.edu/health-academy>



### **CCBC High School STEM Academy**

Are you ready to start an exciting journey in a STEM related career pathway? The CCBC STEM Academy is for high school students in grades 11 and 12, at participating high schools, who are interested in a career in the Engineering, Computer Science and Cybersecurity fields. Students have opportunities to explore careers in these fields and receive hands-on STEM instruction from college faculty members in in-person or virtual online live labs and classroom environments while acquiring critical thinking and problem-solving skills. Students who attend during their 11<sup>th</sup> and 12<sup>th</sup> grade years will be able to complete up to 28 college credits toward CCBC's associate degree

programs or transfer the credits to other colleges and universities.

For more information about the CCBC High School STEM Academy, the admission criteria and to view the courses visit <https://www.ccbc.edu/stem-academy>



### **CCBC High School Criminal Justice Academy**

Do you have a passion for serving and protecting? Are you interested in a career in law enforcement, probation and parole or social justice? Take custody of your future by joining the CCBC Criminal Justice Academy. Through the Academy, high school students in grades 11 and 12 at participating school districts can spend a portion of their high school day on a CCBC campus or virtually, online live preparing for a career in the Criminal Justice field. Students who attend during their 11<sup>th</sup> and 12<sup>th</sup> grade years will be able to complete up to 28 college credits toward CCBC's associate degree programs

or transfer the credits to other colleges and universities.

For more information about the CCBC High School Criminal Justice Academy, the admission criteria and to view the courses visit <https://www.ccbc.edu/criminal-justice-academy>



### **CCBC High School Education Academy**

Do you want to inspire learning? Do you desire to empower lives through a career in teaching? CCBC's High School Education Academy is for high school students in grades 11 and 12 at participating school districts and provides the opportunity to gain hands-on experience in diverse educational settings and learn how to prepare developmentally appropriate lessons and learning environments. Students can choose to follow the PreK-4<sup>th</sup> grade or Secondary Education pathways while attending the academy. Students who attend during their 11<sup>th</sup> and 12<sup>th</sup> grade years can graduate from high school with up to 28 credits toward their associate degree in PreK- 4<sup>th</sup> grade education or Secondary Education or pursue transferring the credits to other colleges and universities.

For more information about the CCBC High School Education Academy, the admission criteria and to view the courses visit <https://www.ccbc.edu/education-academy>



### **CCBC High School Business Academy**

CCBC's High School Business Academy is designed for high school students in grades 11 and 12 at participating school districts and provides the opportunity to begin a business pathway while earning college credit. Through a cohort-based experience, students complete foundational business coursework during their junior year and select from elective business courses during their senior year to further develop their knowledge and skills. Students who attend during their 11<sup>th</sup> and 12<sup>th</sup> grade years may graduate from high school with up to 25 college credits toward a business-related degree. Depending on the courses completed, students may also earn a business-related micro-credential. Students who complete the Business Academy will be well positioned to matriculate to CCBC after high school to complete an associate degree and transfer to a partner four-year institution to pursue a bachelor's degree in a business-related field.

For more information about the CCBC High School Business Academy, the admission criteria and to view the courses visit <https://www.ccbc.edu/business>

If you would like to learn more about any of the CCBC College Here and Now: High School Pathways our team can be reached by emailing [highschoolacademies@ccbc.edu](mailto:highschoolacademies@ccbc.edu).

## COLLEGE IN HIGH SCHOOL (CHS) COURSES

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 Robert Morris University (RMU) 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.

### ROBERT MORRIS UNIVERSITY

Students enrolling in the Robert Morris University AP/CHS Chemistry course will be required to complete the course with a final grade of 70% and pay the financial obligation. Below is a list of New Brighton High School's CHS course offerings and financial obligations for each CHS course.

- CHS Intro to Business (3 College Credits) = \$250.00
- CHS Microsoft Applications II (3 College Credits) = \$250.00
- CHS Chemistry (4 College Credits) = \$250.00
- CHS Anatomy & Physiology (4 College Credits) = \$250.00
- CHS European History (4 College Credits) = \$250.00
- CHS Writing & Literature (3 College Credits) \$60/Credit = \$180.00

### PENN WEST DUAL ENROLLMENT

New Brighton High School is excited to announce a new partnership with Pennsylvania Western University (PennWest) to provide dual enrollment opportunities for our students. This collaboration allows eligible sophomores, juniors and seniors to enroll in college-level courses, earning credits that count toward both high school graduation and future university degrees. Student should meet with their School Counselor if they are interested in this program.

#### Program Highlights:

- Affordable Tuition: PennWest offers dual enrollment courses at a reduced rate of \$75 per credit for Pennsylvania residents and \$87 for out-of-state students.
- Flexible Course Options: Students can choose from nearly 50 courses available online or on-campus at PennWest's California, Clarion, or Edinboro locations.
- Unlimited Enrollment: There is no limit to the number of courses students can take per term, providing an excellent opportunity to accelerate academic progress.
- Eligibility Criteria: A minimum cumulative high school GPA of 3.0 is recommended. Students with a lower GPA may still be considered and are encouraged to contact the admissions office for more information.

#### Application Process

Interested students should prepare the following documents:

- Unofficial high school transcript (available from the NBHS Counseling Department).
- Completed Authorization Form.
- Signed Financial Terms and Conditions Agreement.

These documents can be uploaded during the online application process or emailed to [admissions@pennwest.edu](mailto:admissions@pennwest.edu).

**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 at the cost listed above.**

# 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
- 3519 PROTECTIVE SERVICES

---

## ALL BCCTC PROGRAMS

---

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

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

***PREREQUISITE:*** *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

<b>BCCTC STUDENTS</b> (Two year program)	
NEEDS: 4 CREDITS OF ENGLISH	
1 CREDIT OF GYM	
.5 CREDIT OF HEALTH	
*1 CREDIT OF COMPUTER/BUSINESS	
<b>OR</b>	
*1 CREDIT OF FINE ART	
*1 CREDIT FOR CAREER	
PORTFOLIO	
1 CREDIT OF FINE ART	
1 CREDIT FOR CAREER PORTFOLIO	
<b>OPTIONS:</b> 4 History—3 Science—3 Math 3 History—4 Science—3 Math 3 History—3 Science—4 Math	

<b>BCCTC STUDENTS</b> (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	
<b>OR</b>	
*1 CREDIT OF FINE ART	
*1 CREDIT FOR CAREER PORTFOLIO	

*\*In addition to the .5 Personal Finance credit required for graduation, students must complete either an additional .5 Computer/Business credit or 1 full Fine Art credit, depending on which program they choose.*

**The following programs will meet the additional .5 Computer/Business credit required for graduation:**

Business Information Systems	Commercial Arts
	Logistics & Material Management

**The following programs will meet the one full Fine Art credit required for graduation:**

HVAC-R (Air Conditioning/Refrigeration)	Health Occupations
Collision Repair Technology	Machine Tool Technology
Auto Mechanics	Masonry/Bricklaying
Carpentry	Culinary
Cosmetology	Welding
Electrical Occupations	Vet Tech
Greenhouse/Landscaping	Logistics & Material Management
Protective Services	

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

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

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

## CLUBS AND ACTIVITIES

### *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 Bidelspach*

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.

### *Coding Club – Mr. Salvucci*

Through the Coding Club, you will be able to learn from fun and simple online coding tutorials, build community through interactive activities, and learn about inspiring role models. You then work in teams to design and build a Code Project that solves real-world problems you care about through code! Empower yourself to build learning pathways with self-guided video tutorials in the coding languages Scratch, JavaScript, Python, and Swift. Explore popular topics like web development, cybersecurity, game design, and AI. Whether you are a beginner or an experienced coder, the Coding Club has fun activities for you!

### *Envirothon Team –Mr. Wahl*

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 – Mr. Walton*

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. Kohan & Mrs. Kauffman*

The Lioness Club helps plan the New Brighton winter semi-formal dance. Students in the club get to have a voice in the music, decorations, menu, ticket sales and other details involving the dance. We meet about once a week after school and some homeroom mornings from late September to early December. After the dance is over- students in Lioness serve as volunteers at the Beaver County Special Olympics in April.

### *Mock Trial – Mrs. Garuccio*

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. Claerbaut*

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.

### *Percussion Ensemble – Mrs. Claerbaut*

Percussion club is a club open to students of any musicianship ability. Students will learn how to play a variety of percussion instruments, and will perform in at least one concert per year. They will practice playing in small groups and as one large ensemble. Repertoire will include contemporary and non-traditional music.

### *SADD/SHIELD Club – Mr. Pasquale*

SADD encourages students to make healthy life choice decisions; this includes programs geared towards "saying no" to drugs and alcohol but to also avoid other "high risk behaviors". We do this through various public awareness programs like "prom promise" and our annual mock car accident. SADD is open for any student in grades 9-12.

### *Stage Crew – Mrs. Claerbaut*

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*

Student Council represents the interest of the entire student body. NBHS Student Council requires positive, creative, intelligent people who are willing to work hard in order to make our high school a better place. Currently, NBHS Student Council organizes the following events: Paw Prints at the elementary school, Freshman orientation, Open House, two Blood Drives, Haunted Auditorium, two Highway Cleanups, Flag football game. We also coordinate spirit days for homecoming, 12 days of Christmas, Senior send off and other special occasions. Other than planning such events, our Student Council can serve as a direct line to Administration in order to voice the concerns and interests of the student body. We are looking for people with imagination and foresight to assist in the betterment of our school.

### *Student Outreach Club – Mrs. Phillips*

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. Gentile*

NBHS Ushers are responsible for meeting, greeting, and welcoming visitors to NBHS activities & programs. Ushers hand out programs, collect tickets, prop/close doors for performances, direct visitors to seats, sections, bathrooms, etc., answer questions and refer guests to a faculty member when needed. An usher is often the first person that a visitor talks to when they attend an event, so it is important to be polite and make a good first impression! During formal events such as banquets and graduation, it is appropriate to use honorifics such as Sir, Ma'am, or Folks. Ushers should strive to leave visitors with a positive impression of NB and its students.

### *Unified Youth Committee – Mr. Walton*

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.