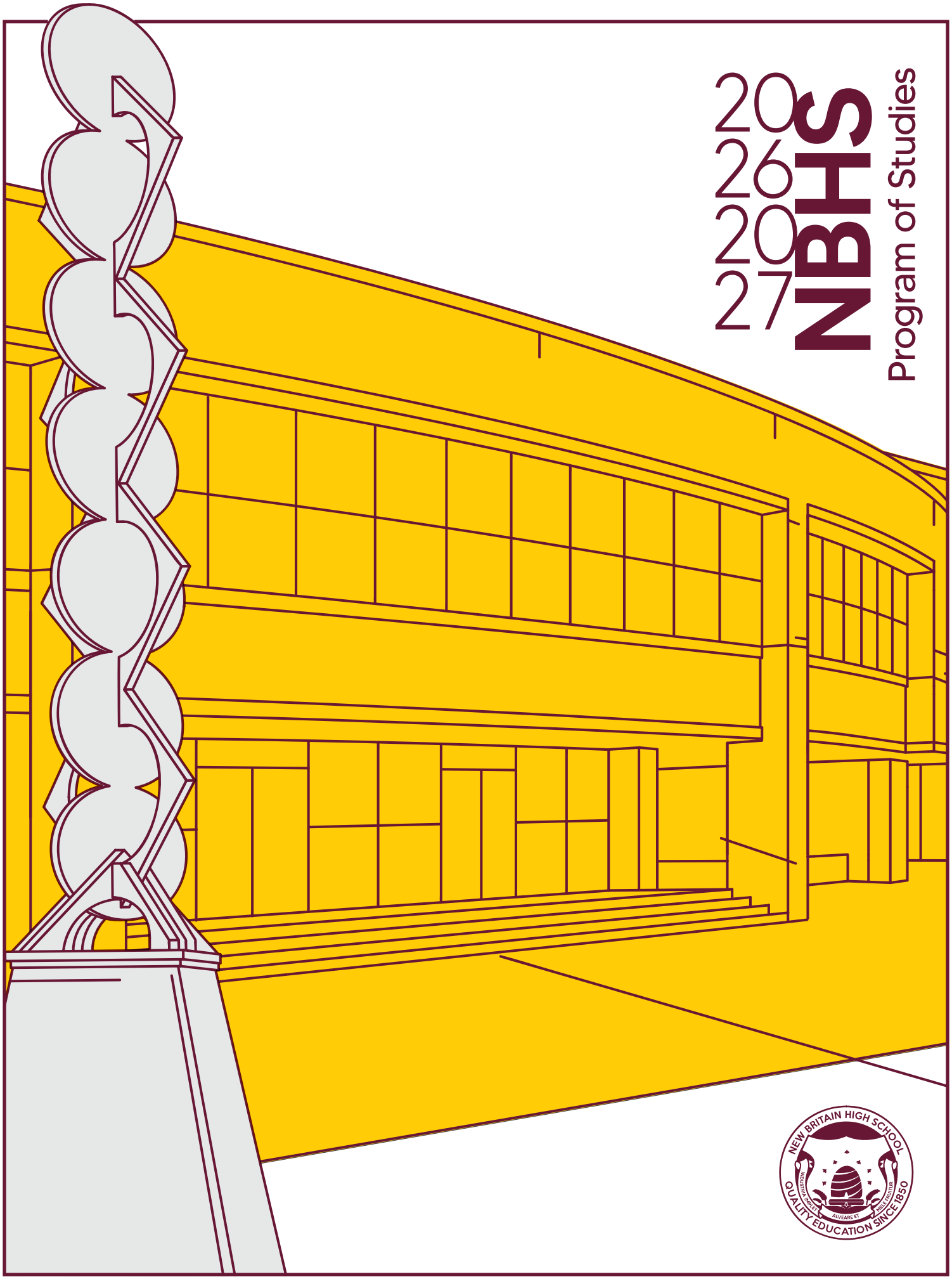

2026 2027 NBHS Program of Studies

NEW BRITAIN HIGH SCHOOL
QUALITY EDUCATION SINCE 1850

New Britain High School

110 Mill Street
New Britain, Connecticut
P (860) 225-6300 **F** (860) 225-6350

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Ricky Clark, Academy Counselor

Dear Students and Families,

As we plan for the upcoming school year, I want to emphasize the importance of utilizing our **Program of Studies** as a guide for course selection and long-term academic planning.

The Program of Studies is more than just a catalog of courses—it is a roadmap to help students support their passions, challenge themselves academically, and prepare for future success. By carefully reviewing the options and working with our dedicated counselors and teachers, students can design a personalized educational path that aligns with their interests, goals, and aspirations. It's also a valuable tool for planning not just for next year but for multiple years ahead, ensuring a cohesive and thoughtful progression toward graduation and beyond.

As you explore the Program of Studies, I encourage you to seek input from your teachers who can provide valuable insights into course expectations and how different classes align with your strengths and goals. Their guidance, along with that of your school counselor, will be instrumental in making informed decisions regarding course selection.

Whether exploring new areas of interest, building on existing strengths, or preparing for a variety of career pathways, referring to the Program of Studies should be the starting point for ensuring thoughtful and informed choices. I encourage all students and families to take the time to review it together and consider how each decision fits into the bigger picture of academic and personal growth.

If you have any questions or need guidance, please don't hesitate to reach out to our school counseling department.

Sincerely,

Damon Pearce
Principal

NEW BRITAIN HIGH SCHOOL
110 Mill Street, New Britain, Connecticut 06051 • **P** (860) 225-6300 **F** (860) 225-6350

NBHS Program of Studies

Non-Discrimination Policy

It is the policy of the Board of Education that students shall be provided an equal opportunity to participate in and benefit from activities, programs, and courses of study offered by the school district without discrimination on the basis of race, color, national origin, sex, disability, religion, sexual orientation, alienage or any other basis prohibited by law. Additionally, pursuant to Title IX and relevant state law, no individual shall, on the basis of sex (which includes marital status, parenthood, and pregnancy), be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any education program or activity receiving federal financial assistance.

Course Selection

Shortly after the start of the second semester, students will receive teacher recommendations in PowerSchool. Parents and students are asked to discuss course selections and recommendations together. Students will enter their course selections into PowerSchool. Students will have an opportunity to meet with counselors to confirm that the appropriate courses were selected to meet graduation requirements and student needs. Students in any of the NBHS Academies have the opportunity to meet with the Academies Counselor to review classes needed to graduate with Academy Distinction.

The courses presented and described in this booklet are subject to change for budgetary considerations, enrollment changes, and other scheduling factors. Certain courses might not be offered if there is not sufficient student enrollment. As a result, some courses may be offered in alternate years.

School Counseling Department

All students have an assigned school counselor and are encouraged to see their counselor for their academic, personal/social and career development needs. In addition to individual counseling, school counselors assist students with school transition, goal setting, achievement, decision-making, and problem solving, as well as post secondary career and college planning.

The Program of Studies is provided to enable you to:

- Understand the New Britain High School course offerings;
- Select courses to meet New Britain High School's graduation requirements and prepare you for post-secondary education and/or work.

In planning your program, you should involve your parent(s)/guardian(s), school counselor, and teachers to help you select courses that are challenging and of interest to you as well as meet graduation requirements. Your future college and career plans are also important to consider during course selection.

Library Media Center

The New Britain High School Library Media Center is a hub for reading, research and technology. The library media center has been designed to support the academic and social-emotional needs of students and staff with collaborative work spaces and comfortable reading areas. The library media center offers resources such as a diverse print collection of fiction and nonfiction, as well as access to eBooks, audiobooks, a library website, and online subscriptions to research databases. With the National School Library Standards published by the American Association of School Librarians as its framework for instruction and learning, along with a comprehensive district Portrait of a Graduate, the library media specialist collaborates with classroom teachers and other school staff to integrate the skills and attributes needed for students to become lifelong readers and critical users of information.

2026 2027 NBHS Program of Studies

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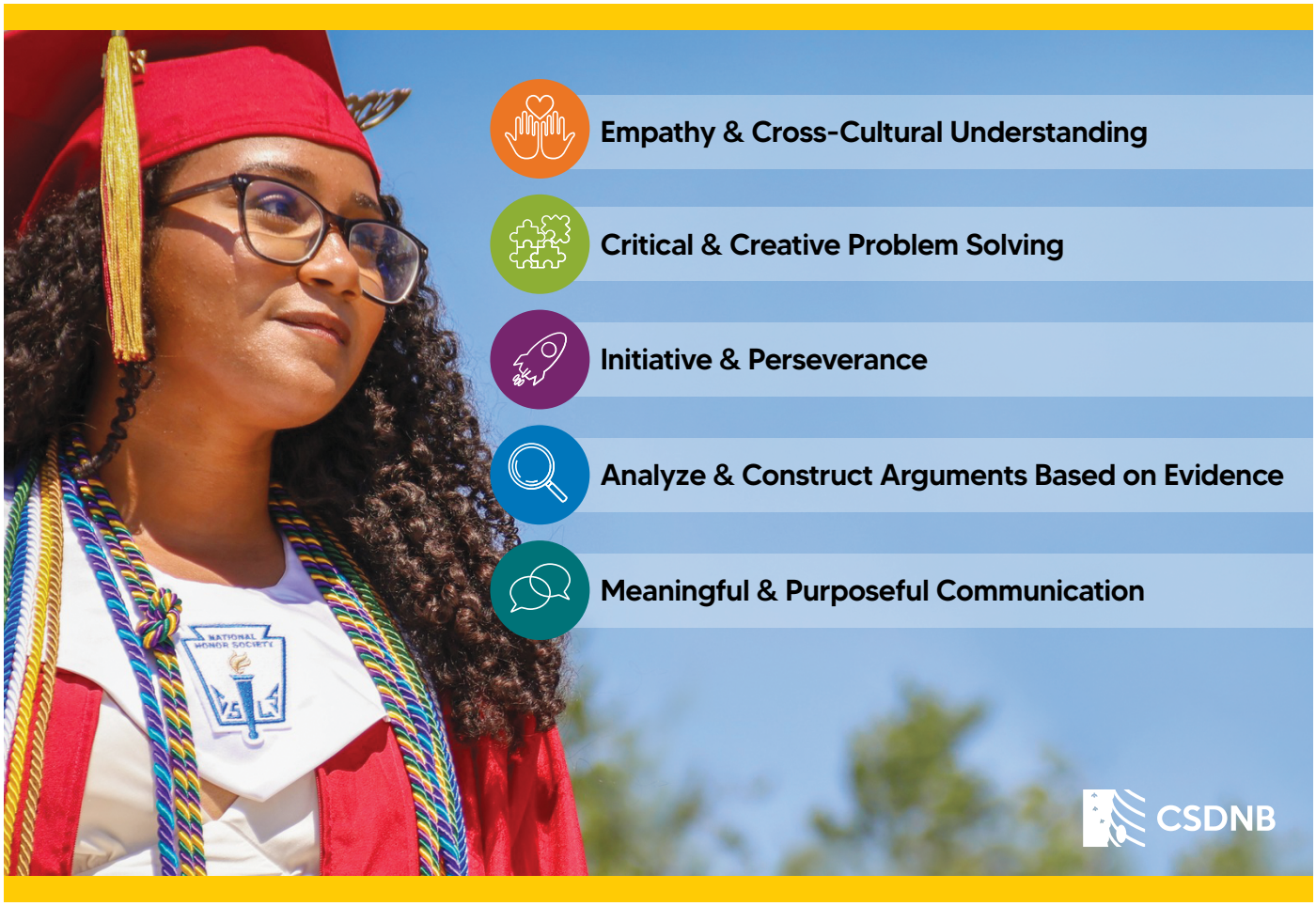
NEW BRITAIN HIGH SCHOOL · QUALITY EDUCATION SINCE 1850

PROFILE OF A **NEW BRITAIN GRADUATE**



Profile of a New Britain Graduate

The Profile of a New Britain Graduate represents the district's vision for student success, outlining the essential skills and attributes that all students will develop by the time they graduate. This profile is a guiding framework that reflects our commitment to preparing students to thrive in an ever-changing, diverse, and global society. It ensures that every graduate is equipped not just with academic knowledge, but also with the critical life skills needed to lead purposeful and impactful lives. The five core competencies that define this profile are:

Empathy & Cross-Cultural Understanding: Students are compassionate and culturally aware, fostering meaningful connections with people from all backgrounds.

Critical & Creative Problem-Solving: Graduates think critically and approach challenges with creativity, finding innovative solutions to complex problems.

Initiative & Perseverance: They demonstrate resilience and determination, taking proactive steps to overcome obstacles and achieve their goals.

Analyze & Construct Arguments Based on Evidence: Graduates are skilled in gathering, analyzing, and using evidence to make informed decisions and articulate well-supported arguments.

Meaningful & Purposeful Communication: Effective and intentional communication is at the heart of their ability to collaborate, inspire, and lead in a variety of contexts.

New Britain High School Graduation Requirements

Students are responsible for meeting all graduation requirements as outlined below. School counselors are available for explanation and clarification of the graduation requirements.

Content Area	Course Requirements and College/Career Recommendations	Credits
Humanities		**9.0**
English		4.0
Social Studies	U.S. History: 1.0 Credit & Civics: 0.5 Credit	3.0
Electives		2.0
STEM		**9.0**
Math	Algebra 1: 1.0 Credit (3 Math Credits must be completed)	3.0
Science		3.0
Electives	Personal Finance: .5 Credits	3.0
World Language		**1.0**
Wellness		**2.0**
Physical Education		1.0
Health		1.0
Other Electives		**3.0**
Career Connections Presentation*		**1.0**
FAFSA (Completion or Waiver)		
Class of 2023 & Beyond Requirement: 25 Credits	**Total Credits**	**25.0**

***Career Connections Presentation**

This is a graduation requirement that allows students the opportunity to demonstrate attainment of the skills identified in the New Britain High School Profile of a Graduate. Students will have the opportunity to present how they developed the following skills throughout their high school experience:

- Immerse themselves in an area of interest to them,
- Explore an academic interest, a social service, a possible career, while thinking beyond the conventional academic experience,
- Independent learning techniques and self-direction, application of knowledge outside the classroom, self-reliance, and confidence,
- Critically evaluate their own upcoming transitions from high school to adulthood, and
- Make connections in the community through networking and developing essential communication skills

This project will be a culmination of four years of the students' work supported by Career Connections Session in each grade level (9-12). Students will demonstrate learning through reflective essays, four years of artifacts, a formal presentation about their high school experience and their readiness for Adulthood.

Alternate Credit Attainment

There are alternate credit attainment opportunities available to New Britain High School students that can be applied towards graduation. More information can be obtained from your school counselor.

Advanced Courses

Students may receive high school and college credit for courses completed at several area colleges including the University of Connecticut, the Connecticut State Colleges & Universities, as well as other programs. Enrollment must be approved by the student's school counselor prior to enrollment.

Independent Study

A student may apply for an independent study program with a teacher. In order to participate, a student must identify a teacher who will work with them to develop a learning plan that compliments but extends beyond courses offered at NBHS. A pass/fail grade is awarded at the conclusion of the study. Approval is required by the student's school counselor, teacher and administration.

Middle School Credit

Students who successfully complete high school courses that are taught in middle school (currently Algebra 1 and Spanish 1), and who pass the corresponding high school course exam, may be awarded a full credit (one) per course. The credits will be designated as elective credit(s) towards graduation. Algebra 1 will fulfill the Algebra 1 requirement for graduation but it will not count towards the three math credits which are required for graduation. Spanish 1 will be awarded 1 elective credit but will not fulfill the 1 World Language credit required for graduation. Credits earned in middle school will not be calculated in GPA and class rank.

Online Coursework

Students may receive credit for courses completed online. Enrollment must be approved by the School Counseling Department prior to the start of the course.

Nonprofit Providers

Successful completion of a world language course offered privately through a nonprofit provider may be awarded provided the student achieves a passing grade on an examination prescribed by the Commissioner of Education

Cooperative Work Experience

Students who satisfactorily complete a minimum of 60 hours of community service, internship, and/or working, may apply to be awarded one-half credit, with a maximum of 1 credit for 120 hours. Other programs offered by nonprofit providers may provide opportunities for Cooperative Work Experience.

Service Learning

Students may earn one-half credit (0.5) in service learning/community service, which will qualify for high school elective graduation credit. The service learning/community service must be pre approved and supervised by a certified school administrator or teacher and consist of not less than 50 hours of actual service that may be performed at times when school is not regularly in session and not less than 10 hours of related classroom instruction. Students must complete the Service Learning approval process BEFORE participating in Service Learning for credit.

Proficiency Exams for World Language Credit

Students may earn high school credit for world languages through external examination, regardless of seat-time. The assessment must be aligned to the ACTFL Proficiency Guidelines.

Extended Learning Opportunities

Extended learning opportunities (ELO) are rigorous learning opportunities that align with approved CSDNB curriculum. These opportunities occur beyond the traditional school day, school year, and/or beyond the classroom. Students must complete the ELO approval process BEFORE participating in an ELO.

Course Selection

Shortly after the start of the second semester, students will receive teacher recommendations in PowerSchool. Parents and students are asked to discuss course selections and recommendations together. Students will enter their course selections into PowerSchool. Students will have an opportunity to meet with counselors to confirm that the appropriate courses were selected to meet graduation requirements and student needs. Students in any of the NBHS Academies have the opportunity to meet with the Academies Counselor to review classes needed to graduate with Academy Distinction.

The courses presented and described in this booklet are subject to change for budgetary considerations, enrollment changes, and other scheduling factors. Certain courses might not be offered if there is not sufficient student enrollment. As a result, some courses may be offered in alternate years.

Course Description Reference Key

Below is an example of a course description in this Program of Studies. Each description will show the course code, title, level, and credit value, along with a course summary. Icons denote course details when applicable; such as, wether the course is a Humanities or STEM course, NCAA Approved, or NAF Certified.

Humanities STEM NCAA NAF

Course Code | Course Title | Course Level | Course Details | Grade Level | Credit Value

Algebra 1			*Grades 9, 10, 11*
431	**Algebra 1**	**Honors**	**1 Credit**
434	**Algebra 1**	**College & Career Prep**	**1 Credit**
434SH	**Sheltered Algebra 1** ***(not NCAA eligible)***	**College & Career Prep**	**1 Credit**

This course is designed to develop a strong foundation of thinking skills necessary for students to succeed in future mathematics courses. Units of study are aligned to the Connecticut Standards. Topics include, but are not limited to, linear equations and inequalities, graphing and writing linear functions, systems of linear equations, and systems of equations, and quadratic functions.

Course Summary

Course Levels: Advanced, Honors, College & Career Prep

Advanced Level

These classes are for students who aspire to engage in post-secondary level work. Such courses include **Advanced Placement, Early College Experience, and Concurrent/Dual Enrollment.** *Students may receive college credits for these courses.*

Course Title
Begins with AP, ECE, CE

Honors Level

A course whose rigor has been determined to be above and beyond the expectations of the regular course of its kind in the high school's Program of Studies. These classes are available to students who desire to work in greater depth and breadth than is offered at other levels.

Course Code
Ends with the number 1

College & Career Prep

These classes are offered for students who plan to attend college, technical school, or seek employment

Course Code
Ends with the number 2, 4, 6, or 8.

Course Change Request

New Britain High School has a single process for all changes to student schedules. Whether dropping and replacing a class or changing levels within the same course, students must follow a similar timeline and process. Students initiate the change process by meeting with their school counselor and obtaining an "NBHS Course Change Request Form". The counselor will explain the process to the student in detail. Course changes are not guaranteed. Students must provide their counselor with a reasonable rationale for initiating the course change process. With very few exceptions, this change process must be initiated by the twentieth day of the semester. Students who do not meet this deadline must wait until the next semester to initiate a change to their schedule. Students who enroll in a class after the first day of school will be afforded 20 school days to initiate a course change request. Level changes should be completed within the first 20 days of a semester. Occasionally circumstances may arise when a level change is considered beyond the 20 day window. In cases when a level change exception is approved by all staff involved, the change must occur at the start of a marking period (the 2nd or 4th quarter); level changes will not be made during the quarter.

Students who add a class within the 20 day window are responsible for completing all skill development and mastery assignments.

Students who wish to change a course level recommendation for the following school year must complete the course change process by May 31st.

School counselors and administration may refuse to initiate a change process for the following reasons:

1. The student requires the course in order to satisfy graduation requirements.
2. There are no replacement courses available and the student already has one study hall.
3. The student cannot provide an acceptable rationale for the change request. For example, classes will not be changed to accommodate a preferred period or teacher.

Grading System

The grading system in each course will be consistent with the goal of encouraging all students to master the course standards. The calculation of grades must follow New Britain High's school guidelines. The purpose of grades is to communicate with students, families, and other staff members about the student's academic progress in each class. Students' grades will be recorded on report cards and transcripts in letter form as A, A-, B+, B, B-, C+, C, C-, D+, D, D-, and F. A passing grade of D- or higher(60% or higher) is considered passing.

Grade Categories/Weights

New Britain High School operates on a single category weighting system that places an emphasis on skill and content mastery. All teacher gradebooks must be set up as follows:

- **Skill and Content Mastery (70%)** This category should include all summative assessments in which a teacher is assessing student mastery of a given skill or concept. Traditional assignments such as tests, quizzes, and projects would typically fall into this category but it may also include smaller, more discrete assessments administered prior to the end-of-unit assessments. At a minimum, teachers are required to include one mastery assessment every two weeks (10 days) of instruction.
- **Skill and Content Development (15%)** This category includes formative assessments that are typically captured through smaller assignments, homework, group work or other forms of individual practice. Minimally, skill development grades should occur at a ratio of 2 assessments for every mastery assessment.
- **Academic Behaviors (15%)** Organization, preparation, timeliness, goal setting and reflection are all important contributors to the success of a student. Thus, providing opportunity for students to engage in these behaviors and to receive feedback from teachers is critical to developing success in high school. Academic Behavior assessments should occur minimally every other class meeting.

Grading Scale

There will be minimum numerical values for all grades.

- The lowest permissible numerical grade for a completed assignment in which the student provided genuine effort to complete is “50”. Teachers shall use their professional discretion to determine if a student provided genuine effort to complete an assignment.
- The lowest permissible numerical grade for an assignment not completed by a student is “40”. This also includes scenarios in which a student is in class but refuses to complete work despite redirection from the teacher.
- Academic Behavior grades may be assessed on a 0-100 point scale.

Grading and Student Attendance

Excused absences:

Students who have an excused absence must be allowed to make up all work that was missed during the absence. It is impossible to create an exact formula for make-up work completion as the duration of the absence along with the number of classes missed will impact the amount of work the student needs to complete while also staying abreast of current work assignments. Teachers should exercise compassion and professional discretion when working with students to make up missed work that was the result of an excused absence.

Please note that excused absences include documented illness, field trips, college visits, court appearances, religious observances, school-based meetings and disciplinary suspensions (both in- and out-of-school suspensions).

All parent/guardian notes excusing absences must be submitted to the House Office connected to the student.

Unexcused absences:

Students who have an unexcused absence from school, or an unexcused absence from class, should not receive a formal grade(s) for assignments completed on that day; teachers should enter a “40” for work missed under these circumstances.

Grade Placement & Promotion

Grade placement and promotion is based on the number of credits previously earned.
The minimum requirements for official class standing are listed below.

Credits Required to Advance from Grade Level to Grade Level		
9th Grade ▸ 10th Grade	**10th Grade ▸ 11th Grade**	**11th Grade ▸ 12th Grade**
6 Credits Required **Must Include:** 1 Mathematics Credit and 1 English Credit	**12 Credits Required** **Must Include:** 2 Mathematics Credits, 2 English Credits, 1 Science Credit, and 1 Social Studies Credit	**18 Credits Required** **Must Include:** 3 Mathematics Credits, 3 English Credits, 2 Science Credits, and 2 Social Studies Credits.

Rank In Class

Many colleges request a student's standing or rank in the graduating class. Additionally, some scholarships are awarded according to class rank. Class rank will be determined at the end of each semester beginning freshman year. Final class rank will be determined at the end of the 1st semester of the senior year. New transfer students must attend New Britain High School for at least 4 semesters in order to be included in the class rank. Details regarding class rank are found in the New Britain High School Student & Parent/Guardian Handbook.

GPA Weighted/Unweighted

An unweighted GPA on a 4 point scale will be listed on the student's transcripts. Weighted GPA scales are used only to determine class rank and honor roll. Please see the New Britain High School Student & Parent/Guardian Handbook for details.

Core-Course GPA Program

The Core-Course GPA Program can be used as an unofficial calculator to determine core NCAA GPA and will enable students to self-monitor academic progress throughout their high school tenure.

To use Core-Course GPA Program:

1. Go to www.corecoursegpa.com
2. Click on "Free New Member Account" in the upper left corner
3. Enter School ID: 070455
4. Enter School Code: 712781153
5. Click "Continue"
6. Fill in appropriate fields in the Create New Student Account form
7. Click "Submit"

The Core-Course GPA Calculator is not limited to student athletes. All students can use this calculator to determine their core GPA.

NCAA Eligibility Center for Athletes Focusing on Division I and II

- Courses at New Britain High School that are approved by the NCAA Eligibility Center are marked with the NCAA logo in the Program of Studies
- Only core courses that appear in the high schools list of NCAA courses on the NCAA Eligibility Center website (www.eligibilitycenter.org) will be used to calculate your core-course GPA.
- Division I and Division II core-course requirements and qualification requirements are also listed on the NCAA Eligibility Center website.

NCAA Academic Eligibility Requirements

Division I	Division II	Division III
Division I – 16 Core-Courses • Graduate from High School • 4 credits English • 3 credits math (Algebra 1 or higher) • 2 credits natural or physical science • 2 credits social studies • 4 credits of extra core-courses • 1 credit of English, math, or natural/physical science • Sliding scale A will be used to determine eligibility to receive athletic aid, practice, and competition during the first year • Must have at least a 2.3 core-course GPA	**Division II – 16 Core-Courses** • Graduate from High School • 3 credits English • 2 credits math (Algebra 1 or higher) • 2 credits natural or physical science • 2 credits social studies • 3 credits of extra core-courses • 4 other NCAA approved courses • Must have at least a 2.2 core-course GPA	Division 3 schools are responsible for setting their own academic eligibility rules. If you are going to be competing for a D3 institution, or if you are unsure what division level you'll be competing at, you can start with a free NCAA Profile page. If you do decide to pursue a D1 or D2 program, you can always transition to a Certification Account later.

NCAA Division I will require 10 core-courses to be completed prior to the seventh semester of high school *(seven of the ten must be a combination of English, Math, or Natural/Physical Science under the distribution requirements)*. These 10 courses will be "locked in" at the seventh semester of high school and cannot be retaken for grade improvement.

Advanced Coursework

An "advanced course or program" may be defined as one or more of these categories: honors classes, advanced placement classes (AP), Project Lead the Way (PLTW), dual enrollment, dual credit, concurrent enrollment, UCONN Early College Experience, International Baccalaureate program, Cambridge International Program, industry credentialing classes, work-based learning, or any other advanced or accelerated course or program offered by the Board of Education in grades 9-12, inclusive of some courses offered in middle school that can lead to advanced placement in 9th grade.

Advanced Placement Courses

New Britain High School offers many Advanced Placement (AP) Courses. Students have the opportunity to prepare for the AP exam and potentially receive college credit. The Advancement Placement Exam Policy is as follows:

- Students are encouraged to take the AP exam to earn college credits.
- There is a fee to register for AP exams. See your counselor for more information.
- Students who will be taking multiple exams and are concerned about the cost should see the AP coordinators, Ms. Aponte-Garcia in Gold Guidance or Mr. Tabellione in room 307

UCONN Early College Experience Courses

New Britain High School offers several courses in the Early College Experience Program (ECE) with the University of Connecticut. Each course is diverse in its requirements for UConn credit. Some require a minimum grade, while others require a minimum grade on UConn's final exam. All UConn courses require that students submit an application to UConn, and some may require a fee based on ability to pay, billed by and payable to UConn. Some of the UConn ECE courses are also AP courses. This offers students the opportunity to obtain college credit in two ways; by meeting UConn's criteria, and/or by passing the AP exam. Both credit types are transferable to other universities depending on individual university criteria. Students enrolling in the ECE program are encouraged to take the AP exam.

CSCU Concurrent Enrollment/Dual Enrollment

New Britain High School offers all of its students the opportunity to earn college credits for free via CSDNB's partnership with the Connecticut State Colleges & Universities (CSCU) system. These courses can also count toward a student's high school transcript, allowing students to get a head start on their higher education goals.

Dual enrollment enables New Britain High School students to take college courses, taught by college professors, either on the college campus or virtually.

Concurrent enrollment enables high school students to take college courses, taught by New Britain High School teachers, who have been certified by the CSCU to teach the course on New Britain's Campus.

Advanced Courses Offered At NBHS

Advanced Placement (AP) Courses

150	AP/ECE English Language	Advanced	1 Credit
170	AP English Literature	Advanced	1 Credit
210	AP World History	Advanced	1 Credit
220	AP Psychology	Advanced	1 Credit
230	AP United States History	Advanced	1 Credit
250	AP/ECE Macroeconomics	Advanced	1 Credit
270	AP U.S. Government and Politics	Advanced	1 Credit
320	AP Spanish Language	Advanced	1 Credit
440	AP Computer Science Principles	Advanced	1 Credit
480	AP Calculus AB	Advanced	1 Credit
490	AP Computer Science A	Advanced	1 Credit
520	AP Biology	Advanced	1.5 Credits
650	AP Business with Personal Finance (Anticipated)	Advanced	1 Credit
660	AP Cybersecurity (Anticipated)	Advanced	1 Credit
930	AP Studio Art	Advanced	1 Credit
1120	AP/ECE Music Theory	Advanced	1 Credit

UCONN Early College Experience (ECE) Courses

150	AP/ECE English Language	Advanced	1 Credit
180	ECE Princ. Of Public Speaking	Advanced	.5 Credit
250	AP/ECE Macroeconomics	Advanced	1 Credit
310	ECE French 4	Advanced	1 Credit
330	ECE Spanish 4	Advanced	1 Credit
510	ECE Environmental Science	Advanced	1.5 Credits
540	ECE Chemistry	Advanced	1.5 Credits
560	ECE Physics	Advanced	1.5 Credits
730	ECE If You Love It, Teach It!	Advanced	1 Credit
550	ECE Medical Terminology	Advanced	.5 Credit
786	ECE Intro to Allied Health Professions	Advanced	.5 Credit
1110	ECE Popular Music and Diversity in American Society	Advanced	.5 Credit
1120	AP/ECE Music Theory	College	1 Credit

CSCU Concurrent Enrollment (CE) Courses

611	CE Introduction to Business	Advanced	1 Credit
621	CE Financial Accounting	Advanced	1 Credit
631	CE Basic Accounting	Advanced	1 Credit
641	CE Finance Principles	Advanced	.5 Credit
684	CE Advanced Marketing	Advanced	1 Credit
731	CE Child Development 2	Advanced	1 Credit
761	CE Education In A Multicultural Society	Advanced	.5 Credit
740	CE Diversity, Equity and Inclusion in Education	Advanced	.5 Credit
811	CE Engineering Essentials with Electrical Application	Advanced	1 Credit

English Department

The study of English includes the development and application of a range of skills: speaking and listening, reading and writing, viewing and communicating. The primary purpose of the English program is to develop students who demonstrate high levels of proficiency and fluency in these skills. Moreover, the English program provides meaningful and challenging opportunities for students to become reflective, critical, and analytical thinkers.

English Dept. Course Offerings At-A-Glance

Grade 9 **Courses**			
191	English One	Honors	1 Credit
192	English One	College & Career Prep	1 Credit
Grade 10 Courses			
141	English Two (Pre-AP)	Honors	1 Credit
146	English	College & Career Prep	1 Credit
Grade 11 Courses			
171	English Three	Honors	1 Credit
172	English Three	College & Career Prep	1 Credit
150	AP/ECE English Language	Advanced	1 Credit
Grade 12 Courses			
111	English Four	Honors	1 Credit
114	English Four	College & Career Prep	1 Credit
142	Introduction To College English	College & Career Prep	1 Credit
170	AP English Literature	Advanced	1 Credit
Grade 11-12 Electives			
166	Psychology in Literature	College & Career Prep	.5 Credit
174	Silenced Voices	College & Career Prep	.5 Credit
180	ECE Principles of Public Speaking	Advanced	.5 Credit
182	Public Speaking	College & Career Prep	.5 Credit
186	Creative Writing	College & Career Prep	.5 Credit

Grade 9 **English**

English One			*Grade 9*
191	English One	Honors	1 Credit
192	English One	College & Career Prep	1 Credit

This course focuses on developing and refining the skills necessary to read and respond critically and to write well for a variety of purposes and audiences. The class uses individual and collaborative learning experiences to introduce freshmen to the characteristics of poetry, nonfiction, the novel, and the short story. Students will demonstrate their creative and critical thinking skills through oral and written expression that includes journals, narrative, explanatory, and argumentative essays.

Grade 10 **English**

English Two			*Grade 10*
141	**English Two**	**Honors**	**1 Credit**
146	**English Two**	**College & Career Prep**	**1 Credit**

This course continues the focus on developing and refining the skills necessary to write well for a variety of purposes and audiences. In addition, there is a focus on the development of the ability to read and respond critically to a range of genres: novels, poetry, short stories, and plays. Students will demonstrate their creative and critical thinking through collaborative and independent activities culminating in oral and written expression that includes journals, narrative, explanatory, and argumentative essays.

Grades 9-10 **English**

Grades 9 and 10 Reading Seminar			*Grades 9, 10*
195	**Reading Seminar One**	**College & Career Prep**	**.5 Credit**
145	**Reading Seminar Two**	**College & Career Prep**	**.5 Credit**

The instruction and tasks completed in the reading strategies course will be independent of the tier one instruction. One goal of the course is that students will read regularly to build their skills. Students will have a figurative and literal toolbox of strategies from which they can pull depending on what works for them. *Students will have access through teacher placement and recommendation.*

Grade 11 **English**

English Three			*Grade 10*
171	**English Three**	**Honors**	**1 Credit**
172	**English Three**	**College & Career Prep**	**1 Credit**

In the English Three courses students study, read and respond critically to literature that reflects universal ideas. Through the lens of world writers, students will examine multiple perspectives on a variety of issues in order to develop their own understanding of themselves and their relationship to the world. Students will write well for a variety of purposes and audiences with emphasis on modes required in college: argumentative, expository, and research. The class uses individual and collaborative experiences, allowing students to build these skills.

AP/ECE English Language			*Grade 11*
150	**AP/ECE English Language**	**Advanced**	**1 Credit**

This course will prepare students for the AP English Language and Composition examination and is also a part of the Early College Experience program at the University of Connecticut. The expectation of the university is that students in ECE are mature and capable of doing university-quality work while still in high school. Students who meet UConn's requirements will receive four credit hours. Students will receive instruction in academic writing through close reading and analysis of writing from a variety of time periods and disciplines. Students will write in a range of modes: synthesis, argumentation, rhetorical analysis, and multimodal. In completing these assignments, students will hone their own writing processes through extensive revision.

Students may enroll in the class for high school credit only, or for high school and college credit at the University of Connecticut. Students who elect to register for the class at UConn may incur a fee payable to the university. Students who meet the university's requirements at the end of the course will earn college credit.

Grade 12 **English**

English Four

Grade 12

111	English Four	Honors	1 Credit
114	English Four	College & Career Prep	1 Credit

This course includes a study of a range of texts to help students develop the skills necessary to read and respond critically. In addition, students will write well for a variety of purposes and audiences with emphasis on modes required in college: narrative, argumentative, expository, and research. The class uses individual and collaborative experiences, allowing students to build these skills.

AP English Literature

Grade 12

170	AP English Literature	Advanced	1 Credit

This class prepares students for the AP Literature and Composition Examination offered in the spring. The expectation is that students are mature and capable of doing university-quality work while still in high school. Course readings explore the changing literary canon through study of teacher-assigned and student-chosen works that focus on diversity of time period and voice. Writing assignments will relate to these poetic and prose works of literary merit and will be primarily expository in nature, emphasizing critical thought and interpretation. A culminating project will conclude the year instead of a final Examination.

Introduction To College English

Grade 12

142	Introduction To College English	College & Career Prep	1 Credit

This course is designed to prepare students for the academic rigor of college courses. Students will strengthen their critical reading and writing skills that are required across the disciplines. Students will focus on the understanding of, reporting on, reacting to, and analyzing the ideas of others. Texts will serve as models and sources for students to refine their skills in exposition, interpretation, and argumentation. Students will read texts critically, write a thesis-based essay, and use reflection as a bridge to academic self-improvement. Students will read a variety of fiction and nonfiction texts. They will write papers and present their findings through class seminars and formal presentations. The class uses individual and collaborative experiences, allowing students to build these skills.

This course has been developed through a partnership with instructors from Tunxis Community College (TXCC) and Central Connecticut State University (CCSU). Successful completion of this course, including written samples and reflections that demonstrate grade-level expectations, may result in exemption from developmental, non-credit courses at both TXCC and CCSU. There will be NO exemptions for the final exam.

Journeys, Voices and Stories*

Grade 12

117	Journeys, Voices and Stories*	College & Career Prep	1 Credit

Stories are important, they connect, create community, and empower. In this course students will engage in high-frequency, low stakes writing in order to build proficiency and understand their own voice, style, and process. While students will dedicate time to being writers, it is also important to be readers of text and readers of the world. We will read memoirs, poetry, short stories and novels. In addition, students will write well for a variety of purposes and audiences with emphasis on modes required in college: narrative, argumentative, expository, and research. The class uses individual and collaborative experiences, allowing students to build these skills. *Students will be placed in the course by the World Language Department Chair recommendation.*

Grades 11-12 **English Electives**

Psychology in Literature

Grades 11 and 12

166	**Psychology in Literature**	**College & Career Prep**	**.5 Credit**

This course will explore the connection between psychological theory and literature and will focus on developing and refining the skills necessary to read and respond critically and to write well for a variety of purposes and audiences with emphasis on modes required in college: argumentative, expository, research. Additionally, the course will focus on works in which characters confront the need to integrate self and deepen their relationship with society. A range of psychological issues that are found in literature will be explored: depression, fear, delusion, self-actualization, memory, social processes, and others. Students will read a variety of literary texts along with texts from the fields of psychology. The class uses individual and collaborative experiences, allowing students to build these skills.

Silenced Voices

Grades 11 and 12

174	**Silenced Voices**	**College & Career Prep**	**.5 Credit**

In this half-year English course, students will develop their critical thinking and writing skills through the research and analysis of challenged/banned books. Additionally, students will explore the ethical, legal, and cultural implications of censorship—with a focus on social justice issues and writers who have been considered marginalized. Skill mastery assessments will be done in a variety of ways, including creative writing pieces, argumentative essays, and research-based projects.

ECE Principles of Public Speaking

Grades 11 and 12

180	**ECE Principles of Public Speaking**	**Advanced**	**.5 Credit**

Using a workshop setting, students explore theory and performance in public speaking. Students will learn methods for organizing presentations, delivery skills, and overcoming anxiety of speaking in public. Additionally students will engage in audience analysis and speech evaluation in order to design presentations to maximize the impact of their message. Public speaking is a skill that develops through practice therefore students will regularly practice effective presentation skills, incorporating the use of technology, and reflection.

Public Speaking

Grades 11 and 12

182	**Public Speaking**	**College & Career Prep**	**.5 Credit**

Using a workshop setting, students examine two important aspects of public speaking: the composition of speeches and the techniques for effective delivery. Students learn organizational strategies to apply when writing autobiographical, informational, instructional, and persuasive pieces. To provide the foundation of these speeches, students research information using print and non-print resources. In addition, students regularly practice effective presentation skills, incorporating the use of technology.

Creative Writing

Grades 11 and 12

186	**Creative Writing**	**College & Career Prep**	**.5 Credit**

Through both reading and writing, students study the craft and process of writing. In a workshop setting, students compose short stories, poetry, memoirs, and other genres as they create personal portfolios.

Multilingual Department

The Multilingual Department at New Britain High School offers a sequence of courses to enable new to the district non-English speaking students to become proficient in reading, writing, and speaking English.

Multilingual Dept. ESL (English as a Second Language) Course Offerings

ESL 1 Courses

ESL 1 Grammar and Writing			
102	**ESL 1 Grammar and Writing**	**College & Career Prep**	**1 Credit**

This course integrates the study of grammar, writing, and speaking. The primary focus is the study of level-appropriate grammar topics including the following: present tense and present progressive verbs, verb forms for "to be," common irregular verbs, yes/no and information questions, and common contractions. Students practice these structures in writing and speaking contexts. Students will create clear and coherent level-appropriate speech and text by participating in appropriate oral and written exchanges of information, ideas, responding to peer and/or audience comments and questions.

ESL 1 Reading			
103	**ESL 1 Reading**	**College & Career Prep**	**1 Credit**

In this course students will develop reading skills in four areas: word analysis, fluency and vocabulary, comprehension and basic literacy analysis and response. Students will learn to construct meaning from oral presentations and/or text through level-appropriate listening, reading, and viewing, determining the meaning of words and phrases in oral presentations and literary and informational text. Students develop sight-word vocabulary as well as receive explicit phonics and decoding skills instruction.

ESL 2 Courses

ESL 2 Grammar and Writing			
104	**ESL 2 Grammar and Writing**	**College & Career Prep**	**1 Credit**

The primary focus of this course is the study of level 2 appropriate grammar topics including the following: simple and continuous verbs in the present, past and future; nouns and pronouns as subjects and objects; modifiers; prepositions; and common conjunctions. Students will also study common sentence structures for statements and questions. Students will identify and practice using these structures with the goal of improving clarity of expression in writing and comprehension. Students will speak and write about grade-appropriate literary and informational texts and topics. The writing component focuses on developing basic writing skills. This includes writing simple, compound and complex sentences as well as basic paragraph development. Correct spelling, punctuation and capitalization are also included in this writing component.

ESL 2 Reading			
105	**ESL 2 Reading**	**College & Career Prep**	**1 Credit**

This reading course emphasizes recognition and use of high frequency vocabulary words. Additionally, students learn to differentiate between main ideas and details in readings of a beginning level of difficulty. Students will learn to construct meaning from oral presentations and literary and informational text through grade-appropriate listening, reading, and viewing. Students will practice speaking using a variety of techniques. Students will determine the meaning of words and phrases in oral presentations and literary and informational text.

ESL 3 Courses

ESL 3 Grammar and Writing

106	ESL 3 Grammar and Writing	College & Career Prep	1 Credit

This course of the study includes level-appropriate grammar topics: past and future tenses, modals, gerunds, infinitives and phrasal verbs. Students will also study the comparative forms of adjectives and adverbs, reflexive pronouns, articles and nouns. Students will identify and practice producing these structures with the goals to improve clarity of expression in writing and comprehension in reading. In addition, students will participate in grade-appropriate oral and written exchanges of information, ideas and analyses, responding to peer, audience, or reader comments and questions.

ESL 3 Reading

107	ESL 3 Reading	College & Career Prep	1 Credit

This is the intermediate level of writing and reading or the third level in the sequence. The reading section emphasizes skills and knowledge that will help students develop their reading comprehension, including their ability to infer vocabulary meaning through various clues. The writing section focuses on practicing a variety of complex sentences, producing well organized paragraphs, and developing compositions. It also reinforces the use of intermediate-level grammatical structures through the writing activities and continues to exercise correct spelling, punctuation and capitalization. Students will speak and write about grade-level appropriate literary and informational texts and topics.

ESL 4 Courses

ESL 4 Grammar And Writing

108	ESL 4 Grammar And Writing	College & Career Prep	1 Credit

This course will focus on developing fluency in writing, reading, speaking and listening with special emphasis on compositional skills. This course serves as a transition or compliment to the regular English Language Arts classes. Students will participate in grade-appropriate oral and written exchanges of information, ideas, and analyses, responding to peer, audience, or reader comments and questions. Grade-level appropriate grammar topics including the following will be covered: perfect tenses in the active voice, all tenses in the passive voice, adjective clauses, and noun clauses. Students will also review and expand their knowledge of gerunds, infinitives, phrasal verbs and modals. Students will identify and practice producing these structures with the goal to improve clarity of expression in writing and comprehension in reading.

ESL 4 Reading

109	ESL 4 Reading	College & Career Prep	1 Credit

For students who are in need of reinforcement of ESL 4 course material. Emphasis will be placed on academic reading skills and vocabulary development, which will prepare students to succeed in mainstream classes. The course integrates writing and reading. The writing focus introduces the stages of the writing process from pre-writing to composing to revising. The reading focus is on reading longer, more complex texts, improving comprehension, and building an academic vocabulary. Students write a variety of personal essays using common development modes such as narrative, descriptive, definition, classification and cause/effect. Students will begin to use thesis statements and topic sentences. Attention is given to grammatical problems commonly present in the writings of ESL students. In addition, students will analyze and critique the arguments of literary and informational text as well as arguments of peers both orally and in writing. Students will conduct research, evaluate and communicate findings to answer questions or solve problems. Students will speak and write about grade-level appropriate complex literary and informational texts and topics.

Other ESL Courses

ESL Academic Writing			
144	ESL Academic Writing	College & Career Prep	1 Credit

This course is exclusively for senior MLs, and usually taken simultaneously with other ESL level courses. Students will conduct research in career and college fields, including job shadowing. They evaluate and communicate their findings to assist them in selecting career paths. The focus is on developing the following essential skills: self-advocacy, critical & creative thinking, presentation and interviewing skills, as well as continued English language development. Upon completion of 144, students will have solidified a postsecondary plan, which will prepare students for success in their personal, academic, and professional lives.

Social Studies Department

The NBHS social studies courses offer an opportunity for students to engage in historical study of domestic and foreign affairs, as well as to explore the behavioral sciences. Areas of emphasis include the development of social and academic skills, particularly in the areas of human relationships, research, argumentative writing, and interpretive reading. The enduring focus is to guide students to value human dignity and to improve critical thinking skills through historical thinking and analysis.

Levels within a course differ in pace, manner of presentation, and some content.

Social Studies Dept. Course Offerings At A Glance

Grade 9 **Full Year Courses**			
231F	United States History	Honors	1 Credit
232F	United States History	College & Career Prep	1 Credit
232SH	Sheltered United States History *(not NCAA eligible)*	College & Career Prep	1 Credit
Grade 10-12 Full Year Courses			
230	AP United States History (APUSH)	Advanced	1 Credit
210	AP World History	Advanced	1 Credit
211	World History	Honors	1 Credit
212	World History	College & Career Prep	1 Credit
232SH	Sheltered United States History *(not NCAA eligible)*	College & Career Prep	1 Credit
220	AP Psychology	Advanced	1 Credit
242	African American/Black & Puerto Rican/Latino Studies	College & Career Prep	1 Credit
250	AP/ECE Macroeconomics	Advanced	1 Credit
Grade 11-12 Full Year Courses			
270	AP U.S. Government and Politics	Advanced	1 Credit
Grade 10-12 Half Year Courses			
218	Psychology	College & Career Prep	.5 Credit
228	Sociology	College & Career Prep	.5 Credit
236	New Britain: A Snapshot of America	College & Career Prep	.5 Credit
244	Latino History	College & Career Prep	.5 Credit
246	African-American History	College & Career Prep	.5 Credit
248	Contemporary Issues	College & Career Prep	.5 Credit
252	Economics	College & Career Prep	.5 Credit
Grade 11-12 Half Year Courses			
271	Civics	Honors	.5 Credit
272	Civics	College & Career Prep	.5 Credit
272SH	Sheltered Civics *(not NCAA eligible)*	College & Career Prep	.5 Credit

Social Studies Recommended Pathway (College/Honors)

Grade 9	Grade 10	Grade 11 / 12
230 AP United States History 1 Credit	**230** AP United States History 1 Credit	**270** AP U.S. Government & Politics 1 Credit
231F United States History (Honors) 1 Credit	**210** AP World History 1 Credit	**220** AP Psychology 1 Credit
	211 World History (Honors) 1 Credit	**250** AP ECE Macroeconomics 1 Credit

Social Studies Recommended Pathway (College & Career Prep)

Grade 9	Grade 10	Grade 11 / 12
232F United States History 1 Credit	**212** World History 1 Credit	**218** Psychology - .5 Credit **228** Sociology - .5 Credit **236** New Britain: A Snapshot of America - .5 Credit **242** African Am/Black & Puerto Rican/Latino Studies - 1 Credit **244** Latino History - .5 Credit **246** African American History - .5 Credit **248** Contemporary Issues - .5 Credit **252** Economics - .5 Credit **272** Civics - .5 Credit

Grade 9 **Social Studies**

United States History			*Grade 9*
231F	**United States History**	**Honors**	**1 Credit**
232F	**United States History**	**College & Career Prep**	**1 Credit**
232SH	**Sheltered United States History *(not NCAA eligible)***	**College & Career Prep**	**1 Credit**

In United States History, students will tackle the course question: Is the U.S. a just society? Each chrono-thematic unit of study will provide students with opportunities to analyze and construct an argument in response to that overarching question. The units focus on modern U.S. History (20th and 21st century) and require students to examine themes such as immigration, voting rights, imperialism, civil liberties, and economic opportunities through case studies. As they study these themes, students will develop the Portrait of a Graduate skills by working collaboratively with their peers and utilizing technology strategically and effectively to learn from the past and take action in the present.

Grade 10-12 **Social Studies**

AP World History			*Grades 10, 11, 12*
210	**AP World History**	**Advanced**	**1 Credit**

(This course requires prior AP experience or teacher recommendation.) In this college-level course, students will study the cultural, economic, political, and social developments that have shaped the world from circa 1200 CE to the present. Students will analyze texts, visual sources, and other historical evidence and write essays expressing historical arguments.

Grade 10-12 **Social Studies** [continued]

World History			*Grades 10, 11, 12*
211	**World History**	**Honors**	**1 Credit**
212	**World History**	**College & Career Prep**	**1 Credit**
212SH	**Sheltered World History *(not NCAA eligible)***	**College & Career Prep**	**1 Credit**

In United States History, students will tackle the course question: Is the U.S. a just society? Each chrono-thematic unit of study will provide students with opportunities to analyze and construct an argument in response to that overarching question. The units focus on modern U.S. History (20th and 21st century) and require students to examine themes such as immigration, voting rights, imperialism, civil liberties, and economic opportunities through case studies. As they study these themes, students will develop the Portrait of a Graduate skills by working collaboratively with their peers and utilizing technology strategically and effectively to learn from the past and take action in the present.

Psychology			*Grades 10, 11, 12*
218	**Psychology**	**College & Career Prep**	**.5 Credit**

(Half Year Course) This course focuses on psychology for the individual. General psychological concepts, personality theories, and practical applications of psychology are introduced. This course focuses on finding, integrating and synthesizing information. Students will create new solutions, learn to think on their own and work cooperatively.

AP Psychology			*Grades 10, 11, 12*
220	**AP Psychology**	**Advanced**	**1 Credit**

(This course requires prior AP experience or teacher recommendation.) The purpose of this course is to introduce students to the systematic and scientific study of the behavior and mental processes of human beings. Students are exposed to the psychological facts and principles associated with each of the major subfields within psychology. Students also learn about the methods psychologists use in their science and practice. Oral presentations and research papers are required. A major objective of this course is to prepare students for the AP examination that will be administered in the spring.

Sociology			*Grades 10, 11, 12*
228	**Sociology**	**College & Career Prep**	**.5 Credit**

(Half Year Course) Sociology is the study of society, culture, social groups, which include the major social institutions, and the basic process of human interaction. The chief concern of sociology is human relationships; man's behavior in relation to the interaction of groups including the family, peers, and the community. A topical format is employed. Projects and research papers are required for this class.

AP United States History (APUSH)			*Grades 10, 11, 12*
230	**AP United States History (APUSH)**	**Advanced**	**1 Credit**

(This course requires prior AP experience or teacher recommendation.) In this college-level course, students will study the cultural, economic, political, and social developments that have shaped the United States from c. 1491 to the present. Students will analyze texts, visual sources, and other historical evidence and write essays expressing historical arguments. A major objective of this course is to prepare students for the AP examination that will be administered in the spring.

Grade 10-12 **Social Studies** [continued]

New Britain: A Snapshot of America

Grades 10, 11, 12

236	**New Britain: A Snapshot of America**	**College & Career Prep**	**.5 Credit**

(Half Year Course) (This course meets ½ of the U.S. History credit requirement.) In this semester-long course, students will explore the rich history and vibrant culture of New Britain, CT, uncovering its unique role in shaping America's story. Through engaging activities and projects, students will delve into the city's past, from its early days to the present, examining the people, industries, and events that have defined New Britain. They will investigate the city's diverse neighborhoods, iconic industries, and the contributions of its ethnic communities, discovering how these cultures have enriched the local and national fabric. Students will also uncover stories of local heroes, innovators, and leaders who have made an impact beyond New Britain. Using maps, city documents, NBHS yearbooks, interviews, case studies, videos, as well as virtual and hands-on museum experiences, students will actively engage with history and gain a deeper appreciation of New Britain's significance in American history. By the end of the course, students will develop a new perspective on the city and its lasting influence.

African American/Black & Puerto Rican/Latino Studies

Grades 10, 11, 12

242	**African American/Black & Puerto Rican/Latino Studies**	**College & Career Prep**	**1 Credit**

(This course meets the U.S. History credit requirement.) The full-year course is an opportunity for students to explore accomplishments, struggles, intersections, perspectives, and collaborations of African American/Black and Puerto Rican/Latino people in the U.S. Students will examine how historical movements, legislation, and wars affected the citizenship rights of these groups and how they, both separately and together, worked to build U.S. cultural and economic wealth and create more just societies in local, national, and international contexts. Coursework will provide students with tools to identify historic and contemporary tensions around race and difference; map economic and racial disparities over time; strengthen their own identity development; and address bias in their communities. **(SCED Course Code 04901) Note:** *Students who have already earned credit for 244 or 246 can not earn additional credit for this course.*

Latino History

Grades 10, 11, 12

244	**Latino History**	**College & Career Prep**	**.5 Credit**

(Half Year Course) (This course meets ½ of the U.S. History credit requirement.) In Latino History, students will consider the course essential question: What does Latinx history teach us about the U.S. and its evolution as a more creative and just society? Students will investigate important economic, social, and political events from the Latinx perspective. Special emphasis is aimed at examining the challenges Latinos have faced in the United States, as well as their achievements and contributions to American history and culture. **Note:** *Coursework aligns with the second-half of the African Am/Black & Puerto Rican/Latino Studies course (242); therefore, students who have already earned credit for 242 can not earn additional credit for this course.*

African-American History

Grades 10, 11, 12

246	**African-American History**	**College & Career Prep**	**.5 Credit**

(Half Year Course) (This course meets ½ of the U.S. history credit requirement.) Students will examine the complexities of race and the origins of African history, as well as the contributions of ancient African empires. Students will analyze the role of African-Americans in the history of the United States. Students will investigate important political, economic, and social events from the African-American perspective, past and present. Special emphasis is aimed at examining the challenges Blacks have faced in the United States, as well as their achievements and contributions to history and culture. **Note:** *Coursework aligns with the first-half of the African Am/Black & Puerto Rican/Latino Studies course (242); therefore, students who have already earned credit for 242 can not earn additional credit for this course.*

Grade 10-12 **Social Studies** [continued]

Contemporary Issues

Grades 10, 11, 12

248	**Contemporary Issues**	**College & Career Prep**	**.5 Credit**

(Half Year Course) Students will examine the most current newsworthy events while making historical connections (where applicable). This course offers the opportunity to observe the debate of issues by people living in the present and to observe how and why decisions are made. A high level of student interaction is required.

AP/ECE Macroeconomics

Grades 10, 11, 12

250	**AP/ECE Macroeconomics**	**Advanced**	**1 Credit**

(This course requires prior AP experience or teacher recommendation.) In this college-level course, students will explore the principles of economics that apply to an economic system as a whole. Students will use graphs, charts, and data to analyze, describe, and explain economic concepts.

Economics

Grades 10, 11, 12

252	**Economics**	**College & Career Prep**	**.5 Credit**

(Half Year Course) In this course, students will be introduced to the core concepts of economics. First, students will examine core concepts (such as scarcity, opportunity cost, and supply and demand) at the level of an individual's life. Students will then explore how these concepts build on one another as applied to the market, the national economy, and finally, international trade. Students will engage in case studies and unit projects. *This Class can be used for Personal Finance (.5) credit needed for graduation.*

Grades 11-12 **Social Studies**

AP U.S. Government and Politics

Grades 11, 12

270	**AP U.S. Government and Politics**	**Advanced**	**1 Credit**

(This course requires prior AP experience or teacher recommendation.) In this college-level course, students will study the key concepts and institutions of the political system and culture of the United States. Students will read, analyze, and discuss the U.S. Constitution and other documents as well as complete a research or applied civics project. This course fulfills the Civics Graduation Requirement.

Civics

Grades 11, 12

271	**Civics**	**Honors**	**.5 Credit**
272	**Civics**	**College & Career Prep**	**.5 Credit**
272SH	**Sheltered Civics *(not NCAA eligible)***	**College & Career Prep**	**.5 Credit**

The State of Connecticut requires all students to earn one-half credit on civics and American Government. This course fulfills that state graduation requirement. In Civics, students will consider the course essential question: How can I take part in civic life? Each unit of study will require students to apply knowledge and understanding of civics and government as they consider their roles as citizens. Students will develop the Portrait of a Graduate skills as they engage in activities that promote reading, writing, speaking, and listening skills.

Multilingual Department

The primary goals of the World Language Department are to develop the following:

- effective communication skills.
- an understanding and appreciation of cultural differences and similarities.
- to increase students' sense of global awareness.
- effective reading and writing skills.
- a greater understanding of language structures

Students are eligible to earn the **Connecticut Seal of Biliteracy**, an honor to both native and non-native speakers of English. To qualify for the Seal, students must demonstrate mastery of English and another world language, as delineated by the Connecticut State Department of Education. Students who meet the Seal's criteria will receive the Connecticut Seal of Biliteracy on their diplomas and transcripts.

Please note that students who are proficient in a given language are not eligible to enroll in year one or year two of that language. Students' proficiency will be established at the discretion of the high school language teachers.

Multilingual Dept. WL (World Languages) Course Offerings

▸ **French** Courses

French 1			*Grades 9, 10, 11, 12*
312	**French 1**	**College & Career Prep**	**1 Credit**

(Not open to native speakers) Students will use the language in oral and written communication to express their opinions on everyday topics. Reading and listening activities will enable students to function in authentic situations.

French 2			*Grades 10, 11, 12*
314	**French 2**	**College & Career Prep**	**1 Credit**

Prerequisite: French 1 *(Not open to native speakers)* Students will continue to expand their use of the language in various situations. Particular attention will be placed on the ability to relate information in the past, present, and future tenses.

French 3			*Grades 11, 12*
316	**French 3**	**College & Career Prep**	**1 Credit**

Prerequisite: French 2 Students will continue to expand their use of the language in various situations. Particular attention will be placed on the ability to relate information in the past, present, and future tenses.

ECE French 4			*Grade 12*
310	**ECE French 4**	**Advanced**	**1 Credit**

Prerequisite: French 3 French 4 provides the opportunity to extend the skills of French 3. Much time is devoted to improving writing and speaking skills. Reading and listening material stresses and encourages awareness of cultural and human values. *Students may enroll in the class for high school credit only, or for high school and college credit at the University of Connecticut. Students who elect to register for the class at UConn may incur a small fee payable to the university. Students who meet the university's requirements at the end of the course will earn college credit.*

Spanish Courses

Spanish 1

Grades 9, 10, 11, 12

322	Spanish 1	College & Career Prep	1 Credit

(Not open to native speakers) Emphasis is placed on the development of listening, speaking, reading, and writing skills combined with vocabulary acquisition and culture components. Performance-based assessment focusing on communication in the present tense is stressed.

Spanish 2

Grades 9, 10, 11, 12

324	Spanish 2	College & Career Prep	1 Credit

Prerequisite: Spanish One or proficiency exam. *(Not open to native speakers)* The acquisition of new grammatical structures are practiced in reading, writing, listening and speaking activities. Relating information in present, past, and future tenses is also practiced. Cultural components continue to serve as themes in lessons.

Spanish 3

Grades 9, 10, 11, 12

326	Spanish 3	College & Career Prep	1 Credit

Prerequisite: Spanish 2, Spanish for Heritage Speakers or placement interview Students expand grammar and vocabulary with an emphasis on relating information, ideas, feelings, and opinions. Writing practice utilizing additional verb tenses reinforces skills and expression. Cultural awareness continues to be integrated into lessons. Available to Dual Language students from middle school.

ECE Spanish 4

Grades 10, 11, 12

330	ECE Spanish 4	Advanced	1 Credit

Prerequisite: Spanish 3 or Spanish for Spanish Speakers. Spanish 4 provides the opportunity to extend the skills of Spanish 3. Much time is devoted to improving writing and speaking skills. Reading and listening material stresses and encourages awareness of cultural and human values. Literary studies are attempted when basic skills advance enough to make such a study rewarding. *Students may enroll in the class for high school credit only, or for high school and college credit at the University of Connecticut. Students who elect to register for the class at UConn may incur a small fee payable to the university. Students who meet the university's requirements at the end of the course will earn college credit.*

Spanish for Heritage Speakers

Grades 9, 10, 11, 12

328	Spanish for Heritage Speakers	College & Career Prep	1 Credit

Prerequisite: Placement interview *(not open to students who have taken or qualify for Spanish Speakers)* This course provides a study of Spanish grammar, reading, and writing for students who have basic oral and listening skills in Spanish, but who do not read or write well in the Spanish language. The class will prepare students for entry into higher level Spanish courses in the regular curriculum

Spanish for Spanish Speakers

Grades 9, 10, 11, 12

332	Spanish for Spanish Speakers	College & Career Prep	1 Credit

Prerequisite: Spanish for Heritage Speakers or placement interview This course further develops the reading and writing skills of dual language students or students whose first language is Spanish and who already read and write in the Spanish language. A review of Spanish 2 and 3 grammar, personal journal writing experiences, and a study of modern Hispanic writers will be emphasized.

Mathematics Department

The mathematics curriculum places emphasis on developing: 1) accuracy and facility in performing fundamental mathematical operations, 2) the ability to analyze and solve problems of a variety of types and varying degrees of difficulty and 3) an understanding of the nature and structure of mathematics so that students will be able to apply basic principles to entirely new areas. The courses are designed for students to develop competence in common core standards and demonstrate they are college and career ready through collaboration with peers and teachers, written and oral communication, and in analyzing and solving complex, real world problems using standard and creative means.

Students must pass Algebra 1 and earn a minimum of 3 credits in mathematics in order to graduate. Students can satisfy the Algebra 1 requirement by successfully completing Algebra 1 in middle school. Students who successfully complete high school level mathematics courses in middle school may earn one (1) STEM elective credit toward the graduation requirement of nine (9) STEM credits. All students must complete three (3) math credits while enrolled in the high school in order to meet the mathematics graduation requirement.

Mathematics Dept. Course Offerings At A Glance

Grade 9 **Courses**			
405	**Problem Solving**	**College & Career Prep**	**1 Credit**
Grades 9-11 **Courses**			
431	**Algebra 1**	**Honors**	**1 Credit**
434	**Algebra 1**	**College & Career Prep**	**1 Credit**
434SH	**Sheltered Algebra 1** ***(not NCAA eligible)***	**College & Career Prep**	**1 Credit**
451	**Geometry**	**Honors**	**1 Credit**
452	**Geometry**	**College & Career Prep**	**1 Credit**
452SH	**Sheltered Geometry** ***(not NCAA eligible)***	**College & Career Prep**	**1 Credit**
Grades 10-12 **Courses**			
406	**Applied Mathematics for Problem Solving**	**College & Career Prep**	**1 Credit**
408	**Manufacturing Mathematics**	**College & Career Prep**	**1 Credit**
440	**AP Computer Science Principles**	**Advanced**	**1 Credit**
461	**Algebra 2**	**Honors**	**1 Credit**
462	**Algebra 2**	**College & Career Prep**	**1 Credit**
452SH	**Sheltered Algebra 2** ***(not NCAA eligible)***	**College & Career Prep**	**1 Credit**
Grades 11-12 **Courses**			
420	**Statistics**	**Advanced**	**1 Credit**
421	**Probability and Statistics**	**Honors**	**1 Credit**
422	**Applied Probability and Statistics**	**College & Career Prep**	**1 Credit**
433MA	**Algebra 1 / Geometry**	**College & Career Prep**	**2 Credits**
471	**Pre-Calculus**	**Honors**	**1 Credit**
472	**Algebra 3**	**College & Career Prep**	**1 Credit**
480	**AP Calculus AB**	**Advanced**	**1 Credit**
490	**AP Computer Science A**	**Advanced**	**1 Credit**
Grade 12 **Courses**			
427	**Business Mathematics**	**College & Career Prep**	**1 Credit**
465	**Senior College Preparatory Algebra**	**College & Career Prep**	**1 Credit**

Mathematics Pathways

The mathematics department provides a variety of courses designed to meet the needs of mathematical competency in both academic and vocational careers. It is strongly recommended that students take four years of mathematics following one of the sequences below.

Standard Pathway

Grade 9	Grade 10	Grade 11 / 12
431 / 434 / 434SH Algebra 1	**451 / 452 / 452SH** Geometry	**462 / 462 / 462SH** Algebra 2 **472** Algebra 3 **408** Manufacturing Mathematics **421** Probability and Statistics **465** Senior College Prep Algebra *(Grade 12 Only)*

All courses mentioned in pathway above are 1 Credit courses.

Alternate Pathway

Grade 9	Grade 10	Grade 11 / 12
405 Problem Solving 1 Credit	**431 / 434 / 434SH** Algebra 1 1 Credit	**462 / 462 / 462SH** Algebra 2 **406** Applied Mathematics for Problem Solving **451 / 452 / 452SH** Geometry **408** Manufacturing Mathematics **421** Probability and Statistics **427** Business Mathematics *(Grade 12 Only)* **465** Senior College Prep Algebra *(Grade 12 Only)*

All courses mentioned in pathway above are 1 Credit courses.

Mathematics Pathways [continued]

The mathematics department provides a variety of courses designed to meet the needs of mathematical competency in both academic and vocational careers. It is strongly recommended that students take four years of mathematics following one of the sequences below.

Recommended Pathway

Grade 9	Grade 10	Grade 11	Grade 12
431 / 434 / 434SH Algebra 1	**451 / 452** Geometry	**462 / 462 / 462SH** Algebra 2	**473** Algebra 3 **490** AP Computer Science A **440** AP Comp. Science Principles **420** AP Statistics **471** Pre-Calculus **421** Probability and Statistics

All courses mentioned in pathway above are 1 Credit courses.

STEM Pathway

Grade 9	Grade 10	Grade 11	Grade 12
451 / 452 Geometry	**451 / 452** Geometry	**471** Pre-Calculus	**480** AP Calculus AB **490** AP Computer Science A **420** AP Statistics

All courses mentioned in pathway above are 1 Credit courses.

Computer Science Pathway

Grade 9	Grade 10	Grade 11	Grade 12
431 / 434 / 434SH Algebra 1	**451 / 452** Geometry	**462 / 462 / 462SH** Algebra 2 *- and -* **440** AP Comp. Science Principles	**471** Pre-Calculus **490** AP Computer Science A **420** AP Statistics

All courses mentioned in pathway above are 1 Credit courses.

Grade 9 **Mathematics**

Problem Solving			*Grade 9*
405	**Problem Solving**	**College & Career Prep**	**1 Credit**

This is an applied mathematics course, focused on the type of real world problems typically encountered by people in day to day life. This course is designed to provide students an opportunity to develop problem solving skills that are applicable to all secondary level mathematics courses and to life outside of school. Topics include foundational content intended to prepare students to be successful in Algebra, Geometry, Probability, Statistics, and other secondary level mathematics courses.

Grade 9-11 **Mathematics**

Algebra 1			*Grades 9, 10, 11*
431	**Algebra 1**	**Honors**	**1 Credit**
434	**Algebra 1**	**College & Career Prep**	**1 Credit**
434SH	**Sheltered Algebra 1** ***(not NCAA eligible)***	**College & Career Prep**	**1 Credit**

This course is designed to develop a strong foundation of thinking skills necessary for students to succeed in future mathematics courses. Units of study are aligned to the Connecticut Standards. Topics include, but are not limited to, linear equations and inequalities, graphing and writing linear functions, systems of linear equations, and systems of equations, and quadratic functions.

Geometry			*Grades 9, 10, 11*
451	**Geometry**	**Honors**	**1 Credit**
452	**Geometry**	**College & Career Prep**	**1 Credit**
452SH	**Sheltered Geometry** ***(not NCAA eligible)***	**College & Career Prep**	**1 Credit**

Prerequisite: Credit in Algebra 1. This course examines two and three dimensional geometric figures and their properties. Connections between algebra and geometry are enhanced so that students are able to make sense of the world around them. This course is aligned to the Connecticut Standards and includes the study of inductive and deductive reasoning, angle measurement and angle relations, parallel lines and planes, congruence of triangles, similarity of polygons, coordinate geometry and area and volume of solids. It provides the necessary background for the study of honors level Algebra 2.

Grade 10-12 **Mathematics**

Applied Mathematics for Problem Solving			*Grades 10, 11, 12*
406	**Applied Mathematics for Problem Solving**	**College & Career Prep**	**1 Credit**

Prerequisite: Earned credit in Algebra 1. This mathematics course is designed for students who thrive in a hands-on, project-based learning environment where the focus is on applying mathematical concepts to solve real-world problems. Blending topics from Algebra, Geometry, and Statistics, the course emphasizes practical applications over abstract theory. Each unit of study consists of collaborative projects, allowing students to demonstrate their understanding by tackling meaningful challenges and presenting their work to peers. This course fosters creativity, critical thinking, and communication, making mathematics relevant and accessible to all learners.

Grade 10-12 **Mathematics** [continued]

Manufacturing Mathematics			*Grades 10, 11, 12*
408	**Manufacturing Mathematics**	**College & Career Prep**	**1 Credit**

Prerequisite: Earned credit in Algebra 1. Students will explore and apply mathematical principles essential for precision and efficiency in modern manufacturing processes. Through hands-on activities and real-world problem-solving, students will engage in selected topics from Algebra, Geometry, and Trigonometry that are used in manufacturing processes. Each unit connects mathematical concepts to manufacturing practices, with an emphasis on optimizing processes, reducing waste, and ensuring product quality.

AP Computer Science Principles			*Grades 10, 11, 12*
440	**AP Computer Science Principles**	**Advanced**	**1 Credit**

Prerequisite: C- or better in Honors Algebra 1. AP Computer Science Principles is an introductory college-level computing course that introduces students to the field of computer science. Students will apply computer science principles to solve problems through the development of algorithms and programs, use abstraction and data to discover new knowledge, explore their potential impacts of computing innovations, and discuss ethical issues in the use, design and management of technology.

Algebra 2			*Grades 10, 11, 12*
461	**Algebra 2**	**Honors**	**1 Credit**
462	**Algebra 2**	**College & Career Prep**	**1 Credit**
462SH	**Sheltered Algebra 2** ***(not NCAA eligible)***	**College & Career Prep**	**1 Credit**

Prerequisite: Credit in Algebra 1. This course continues the study of Algebra and is aligned to Connecticut Standards. Topics include, but are not limited to, transformations, quadratic functions, polynomial functions, radical functions, exponential and logarithmic functions, rational functions, trigonometry, and statistics.

Grade 11-12 **Mathematics**

Statistics			*Grades 11, 12*
420	**Statistics**	**Advanced**	**1 Credit**

Prerequisite: C- or better in Honors Algebra 2 or teacher recommendation. Statistics is equivalent to a one-semester, introductory, non-calculus based college statistics course focusing on fundamental statistical concepts and techniques. It covers topics such as data collection, analysis, and interpretation, with an emphasis on utilizing technology and practical applications. The course comprises four main areas of study: Descriptive Statistics, Probability, Sampling Distributions, and Statistical Inference. Students will engage in discussions, activities, and hands-on projects (including designing surveys and experiments) to apply the course content, analyze data, and make predictions. Using the TI-84 graphing calculator (or equivalent web platform or tool) to aid in statistical analysis is an integral part of this course. Students are eligible for college credit based on results of the AP exam. Students enrolled in UConn ECE are eligible to receive credit for the UConn course: STAT 1100Q "Elementary Concepts of Statistics." Students are eligible to receive credit for the CCSU course: STAT 104 "Elementary Statistics."

Grade 11-12 **Mathematics** [continued]

Probability and Statistics

Grades 11, 12

421	**Probability and Statistics**	**Honors**	**1 Credit**

Prerequisite: Earned credit in Algebra 1, earned credit in either Algebra 2 or Geometry. This course focuses on fundamental statistical concepts and techniques, divided into four main areas of study: descriptive statistics, probability, sampling distributions, and statistical inference. Units of study include: descriptive statistics, probability, measures of spread and central tendency, normal distributions, confidence intervals, and regression. Students will develop a solid understanding of how to approach and interpret statistical data in real-world contexts.

Applied Probability and Statistics

Grades 11, 12

422	**Applied Probability and Statistics**	**College & Career Prep**	**1 Credit**

Prerequisite: Earned credit in Algebra 1. This course emphasizes the practical application of mathematical concepts related to the likelihood of events and numerical representations of their occurrence, as well as the processes of collecting, organizing, analyzing, interpreting, and presenting data. Topics covered include probability, descriptive statistics, scatter plots, linear regression, data distributions, and confidence intervals. A significant emphasis will be placed on utilizing these concepts to collect and analyze data in order to make predictions about populations, such as students at NBHS.

Algebra 1 / Geometry

Grades 11, 12

433MA	**Algebra 1 / Geometry**	**College & Career Prep**	**2 Credits**

This course is designed for seniors who do not have either Algebra 1 or Geometry credits. It is a double period course which offers Algebra 1 in the first semester and Geometry in the second semester. Because several concepts/topics are covered daily, attendance in this course is of the utmost importance. Please refer to the course descriptions in this booklet (course numbers 433 to 453) to find out more about Algebra 1 and Geometry.

Pre-Calculus

Grades 11, 12

471	**Pre-Calculus**	**Honors**	**1 Credit**

Prerequisite: C- or better in Honors Algebra 2. Pre-Calculus is a prerequisite for taking AP Calculus AB and provides an excellent background for students needing to take a calculus course in college. The course includes not only all standard topics, but also integrates the use of technology via the graphing calculator. The wide variety of types and multiple levels of exercises meet many different learning styles. Communication exercises including reading, writing, discussion and visual thinking are presented within applications.

Algebra 3

Grades 11, 12

472	**Algebra 3**	**College & Career Prep**	**1 Credit**

Prerequisite: Earned credit in Algebra 2. This course is designed to strengthen and extend algebraic skills for those students who have completed Algebra 2 but do not meet the prerequisite grade requirement to be eligible for Pre-calculus. Topics included in this course are quadratic, polynomial, exponential, logarithmic, and trigonometric functions.

Grade 11-12 **Mathematics** [continued]

AP Calculus AB			*Grades 11, 12*
480	**AP Calculus AB**	**Advanced**	**1 Credit**

Prerequisite: Earned credit in Pre-Calculus. This course deals with coordinate systems, algebraic functions and graphs, limits, derivatives and antiderivatives. The second half of the course includes the definite integral and applications, transcendental functions and formal integration. Students enrolled will be prepared to take the AP exam.

AP Computer Science A			*Grades 11, 12*
490	**AP Computer Science A**	**Advanced**	**1 Credit**

Grades 10, 11, 12 Prerequisite: C- or better in 461 STEM or elective credit only. AP Computer Science is a course which emphasizes object oriented programming methodology with a concentration on problem solving and algorithm development. The course uses the JAVA programming language to study data structures and program design.

Grade 12 **Mathematics**

Business Mathematics			*Grade 12*
427	**Business Mathematics**	**College & Career Prep**	**1 Credit**

Prerequisite: Earned credit in Algebra, 12th grade only. This course is designed to develop skills in performing the fundamental processes involved in mathematics and to develop the ability to apply mathematical knowledge to solve problems. The heart of the course is the real world application of computation skills. Students will apply mathematical fundamentals to realistic situations in a simulated business setting. Spreadsheet and database applications are used. This class can be used for a Personal Finance (.5) credit needed for graduation.

Senior College Preparatory Algebra			*Grade 12*
465	**Senior College Preparatory Algebra**	**College & Career Prep**	**1 Credit**

Prerequisite: Earned credit in Algebra 1, 12th grade only. This course includes a study of the basic properties and theorems of rational numbers; expressions and equations with polynomials, rational and radical expressions, and integer exponents; linear equations in one and two variables; systems of linear equations in two variables; functions and applications in geometry and algebra.

Science Department

The Science Department at New Britain High School provides students numerous opportunities to meet the personal attributes and cognitive abilities of a portrait of a graduate. All science courses encourage students to have empathy and cross cultural understanding. Emphasis is placed on using critical problem solving skills, cultivating effective communication and being able to analyze and construct arguments based on evidence. All students are required to take any 3 science credits.

Science Dept. Course Offerings At A Glance

Grade 9 **Courses**			
591	Earth Space Science	Honors	1 Credit
592	Earth Space Science	College & Career Prep	1 Credit
592SH	Sheltered Earth Space Science *(not NCAA eligible)*	College & Career Prep	1 Credit
Grade 10 Courses			
520	AP Biology	Advanced	1.5 Credits
521	Biology	Honors	1 Credit
522	Biology	College & Career Prep	1 Credit
522SH	Sheltered Biology *(not NCAA eligible)*	College & Career Prep	1 Credit
Grades 9-12 Electives			
507	Sepup Science	College & Career Prep	1 Credit
518	Astronomy	College & Career Prep	.5 Credit
524	Forensic Science	College & Career Prep	.5 Credit
533	Botany	College & Career Prep	.5 Credit
587	Zoology	College & Career Prep	.5 Credit
Grades 11-12 Electives			
510	ECE Environmental Science	Advanced	1 Credit
540	ECE Chemistry	Advanced	1.5 Credits
541	Pre-ECE Chemistry	Honors	1.5 Credits
542	Chemistry	College & Career Prep	1 Credit
543	Chemistry And The Community	College & Career Prep	1 Credit
543SH	Sheltered Chemistry And The Community	College & Career Prep	1 Credit
560	ECE Physics	Advanced	1.5 Credits
561	Physics	Honors	1 Credit
562	Physics	College & Career Prep	1 Credit

Grade 9 **Science**

United States History			*Grade 9*
591	**Earth Space Science**	**Honors**	**1 Credit**
592	**Earth Space Science**	**College & Career Prep**	**1 Credit**
592SH	**Sheltered Earth Space Science *(not NCAA eligible)***	**College & Career Prep**	**1 Credit**

In United States History, students will tackle the course question: Is the U.S. a just society? Each chrono-thematic unit of study will provide students with opportunities to analyze and construct an argument in response to that overarching question. The units focus on modern U.S. History (20th and 21st century) and require students to examine themes such as immigration, voting rights, imperialism, civil liberties, and economic opportunities through case studies. As they study these themes, students will develop the Portrait of a Graduate skills by working collaboratively with their peers and utilizing technology strategically and effectively to learn from the past and take action in the present.

Grade 10 **Science**

AP Biology			*Grade 10*
520	**AP Biology**	**Advanced**	**1.5 Credits**

Meets 2 block periods (1 block class ½ block lab ½ block study) This course helps the student prepare for the AP Examination that will be given in the spring. Detailed laboratory procedures are an integral part of this course. Principles such as cellular biology, molecular biology, genetics, unicellular and multicellular organisms, comparative anatomy, and plants are covered throughout the year.

Principles Of The Biomedical Sciences Is Recommended, But Not Required, For Students Who Plan To Take AP Biology

Biology			*Grade 10*
521	**Biology**	**Honors**	**1 Credit**
522	**Biology**	**College & Career Prep**	**1 Credit**
522SH	**Sheltered Biology *(not NCAA eligible)***	**College & Career Prep**	**1 Credit**

This course focuses on four core ideas: 1. How individual organisms are configured and how those structures function to support life, 2. Organisms' interactions with each other and their physical environment, 3. The flow of genetic information between generations, and 4. The changes in the traits of populations of organisms over time.

Grade 9-12 **Science Electives**

Sepup Science

Grades 9, 10, 11, 12

507	**Sepup Science**	**College & Career Prep**	**1 Credit**

SEPUP (Science Education for Public Understanding Program) is an issues-oriented approach to current topics in environmental science. The general focus of the course revolves around water related topics. The students develop a basic evidence supported, scientific literacy while exploring important issues related to water resources in the community. Students also explore current issues in materials science. An intensive laboratory program provides a strong performance-based assessment program throughout the course.

Botany

Grades 9, 10, 11, 12

533	**Botany**	**College & Career Prep**	**.5 Credit**

This course focuses on plant classification, uses, structure, reproduction, growth regulators and how plants are cultivated. Course requirements include projects, lab and hands-on activities.

Zoology

Grades 9, 10, 11, 12

587	**Zoology**	**College & Career Prep**	**.5 Credit**

This course is a survey of the animal kingdom to include: animal structures and functions, adaptations to land/sea, and animal diversity. Organisms studied will include sponges, mollusks, echinoderms, arthropods, amphibians, reptiles, fish, birds, and mammals. Laboratory exercises will be included and actual or virtual dissections will be required.

Astronomy

Grades 9, 10, 11, 12

518	**Astronomy**	**College & Career Prep**	**.5 Credit**

This course covers the nature, origin and evolution of the solar system including the sun, planets, asteroids, comets, and meteorites. The origin of the universe, evolution of stars, galaxies, neutron stars and black holes will be discussed. Optional field trip to the planetarium.

Forensic Science

Grades 9, 10, 11, 12

524	**Forensic Science**	**College & Career Prep**	**.5 Credit**

This course deals with the study of physical evidence left at a crime scene. Topics will include processing the crime scene, fingerprinting, serology, hair, DNA, biotechnology, and anthropology. Lab activities are an essential part of this course.

Grade 11-12 **Science Electives**

ECE Environmental Science

Grades 11, 12

510	**ECE Environmental Science**	**Advanced**	**1 Credit**

UCONN ECE Environmental Science is designed to be the equivalent of a one-semester college course in environmental studies. The course provides students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world. Analysis of natural and man-made environmental problems will be conducted both in class and in the field. The relative risks associated with these problems and alternative solutions for resolving and/or preventing them will be evaluated. Field trips may be conducted. Students can earn three college credits upon successful completion of the course. Meets criteria and for the UCONN requirement of an environmental science course. Students can earn **three UConn college credits** upon successful completion of the course.

ECE Chemistry

Grades 11, 12

540	**ECE Chemistry**	**Advanced**	**1.5 Credits**

Prerequisite: Chemistry completion and concurrent enrollment in pre-calculus recommended. Meets 2 block periods *(1 block class ½ block lab ½ block study)* Students who plan to major in healthcare, chemical engineering, pharmacy, chemistry or physics, will be adequately prepared by this course. The course prepares students for the AP Chemistry exam in the spring. Students can earn four college credits in the fall and four college credits in the spring upon successful completion of the course **(Total of 8 UConn credits)**

Pre-ECE Chemistry

Grades 11, 12

541	**Pre-ECE Chemistry**	**Honors**	**1.5 Credits**

Prerequisite: Passed Honors Algebra 1 with at least a C or Accelerated Algebra 1 with at least B. Meets 2 block periods *(1 block class ½ block lab ½ block study)* The course core ideas include: matter and its interactions: the structure, properties and interactions of matter, how particles combine to form the variety of matter one observes and how substances combine or change (react) to make new substances.

Chemistry

Grades 11, 12

542	**Chemistry**	**College & Career Prep**	**1 Credit**

Prerequisite: Passed Honors Algebra 1 with a D- or Accelerated Algebra 1 with at least a D+. The course core ideas include: matter and its interactions: the structure, properties and interactions of matter, how particles combine to form the variety of matter one observes and how substances combine or change (react) to make new substances.

Chemistry And The Community

Grades 11, 12

543	**Chemistry And The Community**	**College & Career Prep**	**1 Credit**
543SH	**Sheltered Chemistry And The Community**	**College & Career Prep**	**1 Credit**

Chemistry and the Community (ChemCom) satisfies the laboratory science entrance requirement for some colleges.It meets the minimum requirements of individuals who plan to be LP nurses, hospital technicians, or medical secretaries. It is not recommended for students who plan careers in science or engineering. The course is designed to emphasize societal problems whose solutions require some knowledge of chemistry. As part of their search for solutions, students are expected to do laboratory work and written assignments, and participate in decision-making activities.

Grade 11-12 **Science Electives** [continued]

ECE Physics			*Grades 11, 12*
560	**ECE Physics**	**Advanced**	**1.5 Credits**

Prerequisite: Algebra 1 and Geometry; Algebra 2 must be completed or taken concurrently. Meets 2 block periods. ***(1 block class ½ block lab ½ block study)*** Students who plan to major in engineering, electronics, chemistry or physics will be adequately prepared by this course. Semester 1 covers Newtonian mechanics (including rotational dynamics and angular momentum); work, energy, and power; fluid mechanics, and mechanical waves and sound. Semester 2 covers Electricity and Magnetism, Optics, Atomic and Nuclear Physics, and Modern Physics. Students can earn four college credits in the fall and four college credits in the spring upon successful completion of the course **(Total of 8 UConn credits)**

Physics			*Grades 11, 12*
561	**Physics**	**Honors**	**1 Credit**

Prerequisite: Algebra 1 and Geometry. Algebra 2 must be completed or taken concurrently. Students who plan to major in pre-med, nursing, biology, pre-law, etc. will be adequately prepared by this course. Students who plan to major in engineering, electronics, chemistry or physics should take UCONN ECE physics. Topics covered include mechanics, waves, sound, light, electricity and magnetism.

Physics			*Grades 11, 12*
562	**Physics**	**College & Career Prep**	**1 Credit**

Prerequisite: Algebra 1. This is an introductory course where physics is treated conceptually. This course is a path for continued studies in physical science using basic algebra for computations. Topics covered include: mechanics, waves, sound, electricity and light.

Career and Technical Education Department

Career and Technical Education is structured under the NBHS Academies and consists of all courses listed under Academy of Business & Finance (AoBF), Family/Consumer Sciences Program, Academy of Public Services AoPS, Academy of Manufacturing, Engineering, & Technology (AoMET), and Technology Education, Certified Nursing Assistant. Also, many of our courses are offered through the National Academy Foundation (NAF) and Project Lead The Way (PLTW). NAF is a national education non-profit where students take part in hands-on learning unlike anything that many traditional public education systems are equipped to do alone. NAF builds upon what career and technical education (CTE) programs offer with experiential hands-on learning experiences that complement career-focused curricula, offered through our career pathways and other programs of study.

Non-traditional Enrollments: The Career & Technical Education staff at New Britain High School encourages female students and those who identify as female to enroll in Technical Education classes. Technical Education classes at New Britain High School provide equitable and inclusive opportunities for all students.

Career and Technical Education Dept. Course Offerings At A Glance

Academy of Business & Finance Courses			
608	Entertainment Sports Marketing	College & Career Prep	.5 Credit
611	CE Introduction to Business	Advanced	1 Credit
615	Business & Ethics	College & Career Prep	1 Credit
618	IT Fundamentals	College & Career Prep	.5 Credit
621	CE Financial Accounting	Advanced	1 Credit
631	CE Basic Accounting	Advanced	1 Credit
638	Personal Finance	College & Career Prep	.5 Credit
641	CE Finance Principles	Advanced	.5 Credit
642	Global Business	College & Career Prep	.5 Credit
650	AP Business with Personal Finance	Advanced	1 Credit
651	Exploring Computer Science/ECS	Honors	1 Credit
658	Microsoft Excel (MS Suite)	College & Career Prep	.5 Credit
660	AP Cybersecurity	Advanced	1 Credit
671	Applied Finance	Honors	.5 Credit
682	Intro to Marketing	College & Career Prep	1 Credit
684	CE Advanced Marketing	Advanced	1 Credit
688	Entrepreneurship	College & Career Prep	.5 Credit
440	AP Computer Science Principles	Advanced	1 Credit
490	AP Computer Science A	Advanced	1 Credit
713	Introduction To Culinary Arts	College & Career Prep	.5 Credit
724	Culinary Arts 1	College & Career Prep	1 Credit
728	Culinary Arts 2	College & Career Prep	1 Credit

Academy of Public Service Courses			
746	Education and Human Services	College & Career Prep	.5 Credit
748	Child Development 1	College & Career Prep	1 Credit
731	CE Child Development 2	Advanced	1 Credit
751	Educators Rising	Honors	.5 Credit
761	CE Education in a Multicultural Society	Advanced	.5 Credit
730	ECE If You Love It, Teach It!	Advanced	1 Credit

Academy of Public Service Courses [continued]

754	Preschool Teacher Assistant	College & Career Prep	1 Credit
742	Elementary Assistant Program	College & Career Prep	1 Credit
740	CE Diversity, Equity and Inclusion in Education	Advanced	.5 Credit
732	Introduction to First Responders	College & Career Prep	.5 Credit
734	Introduction to Emergency Medical Responders	College & Career Prep	.5 Credit

Academy of Health & Sciences Courses

581	BMS 1 - Principles of Biomedical Sciences	Honors	1 Credit
551	BMS 2 - Human Body Systems	Honors	1 Credit
501	BMS 3 - Medical Interventions	Honors	1 Credit
511	BMS 4 - Biomedical Intervention	Honors	1 Credit
768	HCS 1 - Healthcare Science 1	College & Career Prep	.5 Credit
782	HCS 2 - Healthcare Science 2	College & Career Prep	1 Credit
784	HCS 3 - Healthcare Science 3	College & Career Prep	1 Credit
550	ECE Medical Terminology (Virtual Course)	Advanced	.5 Credit
786	ECE Introduction to Allied Health Professiona	Advanced	.5 Credit
764	Nursing Assistant	College & Career Prep	1 Credit
766	Hospital Training (Outside of School Day)	College & Career Prep	.5 Credit

Academy of Manufacturing Engineering Technology Courses

802	Explorations in Stem Careers	College & Career Prep	1 Credit
811	CE Engineering Essentials with Electrical Applications	Advanced	1 Credit
821	Introduction to Engineering Design (PLTW)	Honors	1 Credit
851	Computer Integrated Manufacturing	Honors	1 Credit
841	Principles of Engineering (PLTW)	Honors	1 Credit
818	Automotive Technology 1	College & Career Prep	1 Credit
816	Automotive Technology 2	College & Career Prep	1 Credit
844	Manufacturing 1	College & Career Prep	.5 Credit
846	Manufacturing 2	College & Career Prep	1 Credit
874	Construction 1	College & Career Prep	.5 Credit
876	Residential Construction	College & Career Prep	1 Credit
822	CAD Construction	College & Career Prep	.5 Credit
884	Graphic Arts 1	College & Career Prep	.5 Credit
854	Graphic Arts 2	College & Career Prep	1 Credit
856	Graphic Arts 3	College & Career Prep	1 Credit
886	Website Design 1	College & Career Prep	.5 Credit
894	Video Production 1	College & Career Prep	.5 Credit
896	Video Production 2	College & Career Prep	.5 Credit

The Academy of Business & Finance (AoBF)

Students who wish to pursue a career in business should consider The Academy of Business & Finance at NBHS. The Academy of Business & Finance is committed to supporting student preparation for a broad range of careers such as a stock broker, sports agent, billing supervisor, chief executive officer (CEO), chief financial officer (CFO), operational accountant, comptroller, small business owner, financial adviser, investment banker, financial analyst, advertising manager, social media manager, public relations, human relations manager, travel agent, event organizer, spa manager, and many more. There are several pathways within the academy, each offering recommended courses that help focus a student's experience toward their career interests. These recommended pathways are outlined below.

Students participate in a wide range of work-based learning experiences, including college open house events, personal banking workshops, tax preparation training, job shadows, mock interviews, career fairs, and campus visits. Internship opportunities are available across all Academy of Business & Finance pathways. Students also have access to multiple college articulation and dual-enrollment credit options that are transferable to Connecticut state colleges and many other universities. In addition, the Academy of Business & Finance provides the opportunity to earn NAFTrack certification, a nationally recognized credential valued by colleges and employers alike.

AoBF Marketing Pathway

The marketing pathway offers coursework for students who may be planning to pursue continued education or training for a career in the field of marketing. ***Marketing-related occupations include but are not limited to:** Marketing Manager, CRM Manager, Director of Marketing Development, Analyst, Marketing Specialist

Marketing Pathway

Grade 9	Grade 10	Grade 11	Grade 12
615 Business & Ethics 1 Credit	**682** Intro to Marketing 1 Credit	**642** Global Business .5 Credit **608** Entertainment Sports Marketing .5 Credit	**742** CE Advanced Marketing 1 Credit /3 CSCU Credits

CSCU = Connecticut State Colleges and Universities

AoBF Management Pathway

The Management pathway provides students with foundational skills and knowledge for pursuing further education or training in the field of management. ***Management-related occupations include but are not limited to:** Operations Manager, Human Resources Manager, Business Consultant, Project Manager, and Chief Executive Officer.

Management Pathway

Grade 9	Grade 10	Grade 11	Grade 12
615 Business & Ethics 1 Credit	**642** Global Business . 5 Credit **688** Entrepreneurship . 5 Credit	**611** CE Intro to Business 1 Credit/3 CSCU Credits	**682** Intro to Marketing 1 Credit **631** CE Basic Accounting 1 Credit /3 CSCU Credits

CSCU = Connecticut State Colleges and Universities

Academy of Business & Finance Courses

Business & Ethics

Grades 9, 10, 11, 12

615	Business & Ethics	Accelerated	1 Credit

Students explore the necessary concepts and skills in finance, marketing, and management pathways. Students examine how ethics affects various business disciplines and consider the impact of organizational culture. Students also explore ethics as social responsibility, the evolution of ethics in international business, and how the free market and ethics can coexist.

Intro to Marketing

Grades 9, 10, 11, 12

682	Intro to Marketing	Accelerated	1 Credit

Students learn about the history of the industry, explore traveler motivations and consumer needs, the industry's economic and environment impacts, domestic and international travel, and sales in tourism. The second semester focuses on the objectives, strategies, and tools that are important to marketing in the hospitality industry, expanding on topics introduced in the first semester. Students learn about each phase of marketing and the wide range of options that all marketing managers and business owners consider as they create, or revise, marketing plans.

Entrepreneurship

Grades 10, 11, 12

688	Entrepreneurship	Accelerated	.5 Credit

Entrepreneurship introduces students to the critical role entrepreneurs play in the national and global economy. Students learn the skills, attitudes, characteristics, and techniques necessary to become successful entrepreneurs. They explore starting a business and learn about the operational issues and financial risks that new businesses face. Students examine ethical issues and develop a framework for managing them. Finally, students identify the risks, rewards, and other aspects of entrepreneurship as a potential career.

Global Business

Grades 10, 11, 12

642	Global Business	Accelerated	.5 Credit

Students focus on understanding how and why businesses choose to expand their operations into other countries. This course exposes students to the unique challenges facing firms doing business internationally, and to the potential opportunities available to those businesses. This course broadens students' understanding of how businesses operate, grow, and thrive in our ever-changing world.

Entertainment Sports Marketing

Grades 10, 11, 12

608	Entertainment Sports Marketing	Accelerated	.5 Credit

Prerequisite: 682 or Teacher Recommendation. Entertainment sports marketing introduces students to the skills and knowledge required in the event planning profession. After studying the steps involved in planning a special event, students learn about event planning in sports. Students will examine the unique requirements of event planning in entertainment and the performing arts. Students gain valuable experience in project management that can be applied to any career path. They also examine careers in the field of event planning.

CE Introduction to Business

Grades 10, 11, 12

611	CE Introduction to Business	Advanced	1 Credit

CT State Colleges and Universities Credit (3 credits) Introduces the principles and practices of business management. Topics include: Informational and legal foundations for business management; economic, regulatory, and societal environment of business; entrepreneurship, finance, and marketing; planning, organizing, leading and controlling a business organization.

Academy of Business & Finance Courses [continued]

AP Business with Personal Finance (Anticipated)			Grades 10, 11, 12
650	AP Business with Personal Finance	Advanced	1 Credit

Prerequisite: Passed Algebra 1 with at least a C. AP Business with Personal Finance teaches students how businesses operate, create value, and make strategic decisions while consistently connecting these concepts to real-life financial literacy. Students build essential money-management skills as they explore business scenarios and solve authentic problems. Through hands-on projects and case studies, students develop and pitch business ideas while analyzing financial decisions from both personal and business perspectives. This course prepares students for any business-related pathway, and offers the opportunity to earn college credit and an employer-endorsed industry credential through the AP Exam

CE Advanced Marketing (School Store)			Grades 10, 11, 12
684	CE Advanced Marketing	Advanced	1 Credit

Prerequisite: 682 or teacher recommendation. Advanced Marketing introduces students to the objectives, strategies and tools that are important to marketing. Students will become familiar with each phase of marketing channels, brand equity, customer and consumer needs and basic market research. Students will develop a marketing campaign for the hospitality venue. This class also supports DECA, a club that brings the classroom to life that makes learning relevant with educational programs that integrate into classroom instruction, apply learning, connect to business and promote competition.

AoBF Accounting & Finance Pathway

The Finance/Accounting pathway offers coursework for students who may be planning to pursue continued education or training for a career in the field of finance or accounting. ***Finance/Accounting-related occupations include but are not limited to:** Financial Analyst, Certified Public Accountant (CPA), Auditor, Budget Analyst, Tax Consultant, and Financial Planner.

Accounting & Finance Pathway

Grade 9	Grade 10	Grade 11	Grade 12
615 Business & Ethics 1 Credit	641 CE Finance Principles . 5 Credit/3 CSCU Credits	631 CE Basic Accounting 1 Credit /3 CSCU Credits	621 CE Financial Accounting 1 Credit /3 CSCU Credits

CSCU = Connecticut State Colleges and Universities

Academy of Business & Finance Courses [continued]

Microsoft Excel (MS Suite)			Grades 9, 10, 11, 12
658	Microsoft Excel (MS Suite)	Accelerated	.5 Credit

Students will learn the features and functions of Microsoft Office related to creating word processing documents, spreadsheets, and presentations with a focus on Microsoft Excel used in industry. Skills learned will include: creating business centered correspondence, worksheets, documents, and presentations using templates, formulas, cell referencing, linking worksheets, and data management. This course will prepare students for certification tests given through Microsoft that are highly valued by potential employers.

Academy of Business & Finance Courses [continued]

Personal Finance

Grades 9, 10, 11, 12

638	Personal Finance	Accelerated	.5 Credit

Graduation Requirement. Understanding and managing personal finances are key to one's future financial success. This one-semester course is based on the Connecticut Personal Finance Competencies and presents essential knowledge and skills to make informed decisions about real world financial issues. Personal Finance provides students with an overview that includes lessons on saving, borrowing, credit, and all types of insurance, and covers various types of investments. Students examine careers in finance throughout the course.

Applied Finance

Grades 10, 11, 12

671	Applied Finance	Honors	.5 Credit

Prerequisite: Personal Finance 638 or Finance Principles 641. Applied Finance expands the financial concepts introduced in Personal Finance and Finance Principles. Students begin the course by reviewing such critical topics as cash flow, the business life cycle, and capital. They then review the legal forms of business organization and grasp the pros and cons of business ownership forms. They continue to delve into profit and distinguish this measure of business success from cost and revenue. Students learn about various financial analysis strategies while they evaluate financial documents. They learn the three most common methods businesses raise capital stocks, bonds, and short-term financing.

CE Finance Principles

Grades 10, 11, 12

641	CE Finance Principles	Advanced	.5 Credit

Prerequisite: Teacher Recommendation. CT State Colleges and Universities Credit (3 credits) From the perspective of a financial advisor to individual clients, students study personal cash flow and wealth; study key investment-related concepts; learn about managing credit and debt, learn how to make and set financial SMART goals; and to create a relevant budget to achieve a client's goals; In addition, students will examine financial institutions; assess risks and use insurance, and address financial problems; learn how businesses raise capital; and research how innovations have changed the financial services field. Finally, Students explore careers in finance to further understand the education and training needed to achieve a job in the field.

CE Basic Accounting

Grades 10, 11, 12

631	CE Basic Accounting	Advanced	1 Credit

Prerequisite: 611, 641 or 615, 638 with Teacher Recommendation. CT State Colleges and Universities Credit (3 credits) This course is an introduction to basic accounting concepts and principles, with an emphasis on their practical application to recording, classifying, and summarizing financial information that flows within a business enterprise. The accounting cycle is examined; along with such areas as sales, purchases, cash, receivables, and payroll. This course also incorporates Volunteer Income Tax Assistance (VITA) Certification. Students will be trained to become a basic tax preparer.

CE Financial Accounting

Grades 11, 12

621	CE Financial Accounting	Advanced	1 Credit

Prerequisite: Basic Accounting 631 CT State Colleges and Universities Credit (3 credits) Financial Accounting provides students with an understanding of the accounting process and how it facilitates decision making by providing data and information to internal and external stakeholders. Students learn that accounting is an integral part of all business activities. They learn how to apply technology to accounting by creating formulas and inputting data into spreadsheets. Students also examine career opportunities and the professional certification and designations earned by individuals in the accounting profession.

AoBF Computer Science Pathway

The Computer Science pathway prepares students for advanced education or training in the dynamic and rapidly growing field of computer science and technology. **Computer Science-related occupations include but are not limited to:** Software Developer, Data Scientist, Cybersecurity Specialist, IT Systems Manager, and Web Developer.

Computer Science Pathway

Grade 9	Grade 10	Grade 11	Grade 12
618 IT Fundamentals .5 Credit **622** Mobile App Development .5 Credit	**651** Exploring Computer Science 1 Credit	**440** AP Computer Science Principles 1 Credit **660** AP Cybersecurity 1 Credit	**490** AP Computer Science A 1 Credit **660** AP Cybersecurity 1 Credit

Academy of Business & Finance Courses [continued]

IT Fundamentals

Grades 9, 10, 11, 12

618	**IT Fundamentals**	**Accelerated**	**.5 Credit**

This course is recommended for all Academies of NBHS. IT Fundamentals provides an overview of information technology (IT) today and introduces students to the basics of hardware, software, cybersecurity, and programming. Students will consider contemporary issues such as security, privacy, and technological inequality. Students will also apply practical digital skills through the use of Google and Microsoft productivity tools. Finally, students explore career opportunities in IT.

Mobile App Development

Grades 9, 10, 11, 12

622	**IT Fundamentals**	**Accelerated**	**.5 Credit**

It is time to develop an APP! Students taking this course can expect to learn about hardware and software in Android-based smartphones. Students will use MIT App Inventor 2 to create apps which are both fun and socially useful. Students will use pre-made apps to guide the relearning and then develop their very own.

Exploring Computer Science/ECS

Grades 10, 11, 12

651	**Exploring Computer Science/ECS**	**Honors**	**1 Credit**

Prerequisite: At least one of the following: IT Fundamentals (618), Mobile App Development (622), WebSite Design 1 (886) or Engineering Essentials (811). This course introduces students to the foundations of modern computing. The course covers a broad range of foundational topics such as programming, algorithms, the internet, big data, digital privacy and security, and the societal impacts of computing.

Academy of Business & Finance Courses [continued]

AP Computer Science Principles			Grades 10, 11, 12
440	AP Computer Science Principles	Advanced	1 Credit

Prerequisite: C- or better in 431. STEM or elective credit only. AP Computer Science Principles is an introductory college-level computing course that introduces students to the field of computer science. Students will apply computer science principles to solve problems through the development of algorithms and programs, use abstraction and data to discover new knowledge, explore their potential impacts of computing innovations, and discuss ethical issues in the use, design and management of technology.

AP Cybersecurity (Anticipated)			Grades 10, 11, 12
660	Cybersecurity	Advanced	1 Credit

Prerequisite: This course requires prior AP experience or teacher recommendation. AP Cybersecurity provides students with a foundational understanding of cyber threats, vulnerabilities, and the strategies used to safeguard digital systems. Students engage in authentic scenarios that mirror professional cybersecurity work, applying concepts to protect devices, networks, facilities, and data. The course builds strong technical, analytical, and problem-solving skills. Students can also earn college credit and an employer-endorsed credential through the AP Exam.

AoBF Hospitality, Tourism, and Culinary Pathway

The Hospitality & Tourism pathway offers students opportunities to explore and prepare for continued education or training in the hospitality and tourism industry. **Hospitality & Tourism-related occupations include but are not limited to:** Chef, Pastry Chef, Event Planner, Hotel Manager, and Food and Beverage Director.

Hospitality, Tourism, and Culinary Pathway

Grade 9	Grade 10	Grade 11	Grade 12
713 Intro to Culinary 1 Credit	**724** Culinary Arts 1 Credit	**724** Culinary Arts 1 Credit	**Business Elective**

Academy of Business & Finance Courses [continued]

Introduction To Culinary Arts			Grades 9, 10, 11, 12
713	Introduction To Culinary Arts	Standard	.5 Credit

Students will be given an introduction to the Culinary Arts curriculum, which will prepare students for careers in the restaurant and food service industry. Students will learn and apply basic cooking skills with preparing foods such as cookies and brownies as well as pasta and chicken dishes. The course will explore career opportunities, the history of food preparation, and the food service industry. Students will also explore food and workplace safety and sanitation practices in the industry, and the elements of customer service.

Academy of Business & Finance Courses [continued]

Culinary Arts 1			Grades 10, 11, 12
724	Culinary Arts 1	Accelerated	1 Credit

Prerequisite: Introduction to Culinary Arts. The ProStart® Program is a two-year industry-based national program that prepares students for careers in the restaurant and food service industry. Students gain valuable restaurant and food service skills through their academic and workplace experiences. Year 1 covers the topics of Successful Customer Relations, Preparing & Serving Safe Food, Preventing Accidents & Injuries, Kitchen Basics, Food Service Equipment, Nutrition, Controlling Food Service Costs, Working with People, Business Math, Breakfast Foods & Sandwiches, Salads & Garnishes, and Fruits & Vegetables.

Culinary Arts 2			Grades 11, 12
728	Culinary Arts 2	Accelerated	1 Credit

Prerequisite: Introduction to Culinary Arts 1. This second year course allows students to continue the work they began in year one. Year two topics include Preparing for a Successful Career, The History of Food service, Potatoes & Grains, the Lodging Industry, The Art of Service, Desserts & Baked Goods, Marketing & Menu Planning, Purchasing & Inventory Control, Meat, Poultry & Seafood, Standard Accounting Practices, Stocks, Soups & Sauces, Tourism & the Retail Industry, and Communicating with Customers. Students will be encouraged to arrange and complete a mentored worksite experience.

AoBF Experiential Learning Opportunities

Work-based learning brings the classroom to the workplace and the workplace to the classroom. This instructional strategy provides students with a well-rounded skill set that goes beyond academics and includes the soft skills needed to succeed in college and the working world. NAF's approach to work-based learning is centered on a continuum of work-based learning experiences beginning with career awareness activities, progressing to career exploration activities, and culminating in career preparation activities, including internships.

Industry and Community Partners guest speak in classrooms, host college and career skills workshops, and take part in mock interviews. Students have the opportunity to tour worksites, network with, and shadow business professionals. Work based learning culminates in an internship that allows students to apply their classroom skills and learn more about what it takes to succeed.

Experiential Learning Opportunities

Grade 9

Career Awareness
- Guest Speakers
- Field Trips
- FBLA/DECA Student Organizations

Grade 10

Career Exploration
- Leadership Conferences
- Statewide Computing Competition
- Stock Market Challenge
- "Business pitch" Project
- Entrepreneurial Academy

Grade 11

Career Exploration
- "Canes Corner" School Store
- VITA Tax Preparation Certification ◆
- "No Name Cafe" Student-led Restaurant
- Financial Reality Fair
- Mock Interview Day
- College Visits
- Job Shadowing

Grade 12

Career Exploration
- "Canes Corner" School Store
- VITA Tax Preparation Program/Certification ◆
- Student-led Restaurant
- (No Name Cafe)
- College Visits
- Mock Interview Day

◆ = Certification/Credential

The Academy of Public Service (AoPS)

New Britain High School is building a Public Service academy. Organizations that support the Education pathway include colleges, national organizations, and local organizations. Careers in the public service field include but are not limited to educator, case management worker, social worker, child advocate, mental health counselor, community economic developer, criminology careers, domestic violence, community treatment specialist, emergency management specialist, and many more.

Currently, there are two pathways within the academy. The Education and Human Services – Teaching pathway and the Education and Human Services – Early Childhood pathway, both consist of four consecutive classes. Students participate in work-based learning experiences including Little Cane's Preschool, kindergarten, elementary, and secondary placements.

Family and Consumer Sciences Education (FACS) helps prepare students for family life, work life, college and careers by providing opportunities to develop the knowledge, skills, attitudes, and behaviors needed through character development, creative and critical thinking, interpersonal communication, practical knowledge, and Career and Technology preparation.

AoPS Early Childhood and Secondary Education Pathways

Both of these pathways consist of consecutive classes and a choice of three college-articulated courses. Students can participate in work-based learning experiences including Little Cane's Preschool and elementary school placements. Students in both of these pathways also visit college campuses around Connecticut and sit in on many panels that represent educational careers, NBHS alumni and community members. Students can leave New Britain High with nine college credits from three different colleges (Connecticut State Colleges and Universities (CSCU), Central Connecticut State University and UCONN).

Early Childhood Education Pathway

Grade 9	Grade 10	Grade 11	Grade 12
746 Education and Human Services .5 Credit	**748** Child Development 1 1 Credit	**731** CE Child Development 2 1 Credit / 3 CSCUCredits **740** CE Diversity, Equity and Inclusion in Education .5 Credit / 3 CCSUCredits **761** CE Education In A Multicultural Society .5 Credit / 3 CCSU Credits	**742** Elementary Assistant Program (Field Placement/Internship) 1 Credit **or** **754** Preschool Teacher Assistant (Field Placement/Internship) 1 Credit

Secondary Education Pathway

Grade 9	Grade 10	Grade 11	Grade 12
746 Education and Human Services .5 Credit	**751** Educators Rising .5 Credit	**740** CE Diversity, Equity and Inclusion in Education .5 Credit / 3 CCSU Credits **761** CE Education In A Multicultural Society .5 Credit / 3 CCSU Credits	**730** ECE If You Love It, Teach It! 1 Credit /3 UConn Credits

Academy of Public Service Courses

Education And Human Services

Grades 9, 10, 11, 12

746	Education And Human Services	College & Career Prep	.5 Credit

During this half year course, students will explore various career opportunities within the educational and human services field. Students will explore a variety of levels and disciplines including early childhood, elementary education, secondary education, special education, art, music, physical education, math, science, social studies, language arts, technology, or engineering. Exploring the Education and Human Services Pathway will allow students to research potential career paths that will provide the foundation for employment and higher education. During the course, students will participate in guided observations and field experiences in multiple settings to help assess their personal interest in pursuing careers in this field.

Child Development 1

Grades 10, 11, 12

748	Child Development 1	College & Career Prep	1 Credit

Prerequisite: 746 or Teacher Recommendation. This is a full year course designed for students interested in learning about and working with children. Academic classes are alternated with practical experience in the Little Cane's Academy. Academic topics will include physical, intellectual, social and emotional development, reproduction, genetics, prenatal development, and the birth process. Nursery school opportunities will include observing and interacting with pre-school age children, planning and presenting learning activities.

CE Child Development 2

Grades 11, 12

731	CE Child Development 2	Advanced	1 Credit

Prerequisite: Child Development 1 and Teacher Recommendation. CT State Colleges and Universities Credit (3 credits) This course is designed to acquaint students with the field of early care and education and continue their study of children upon completion of Child Development 1. Foundations of early childhood education, curriculum content and significant aspects of child growth and development will be presented. Students will work collaboratively with preschoolers and instructors in NBHS's Little Cane's Academy while they delve into various areas of study. Upon successful completion of the course students can receive 3 college credits from Tunxis Community College. Credit for the college credit follows the articulated college's credit and grading policies.

Educators Rising

Grades 10, 11, 12

751	Educators Rising	Honors	.5 Credit

Teacher Recommendation. Educators Rising is an honors level half year course for juniors and seniors who are interested in delving further into a career in teaching. The curriculum emphasizes the development of key skills, knowledge, and dispositions for high school students as they take their first steps on the path to accomplished teaching. During the course, students will participate in guided observations and field experiences in multiple settings to help further their interest in the education field.

CE Education In A Multicultural Society

Grades 11, 12

761	CE Education In A Multicultural Society	Advanced	.5 Credit

Prerequisite: Educators Rising 751 and Teacher Recommendation. Central Connecticut State University (3 Credits) This course is offered to students who may or may not have chosen the Education and Human Services pathway but would like to learn about issues related to teaching, schools, learning, and cultural and academic diversity in education. Field work in the elementary schools is an integral part of the course and is of exploratory nature. Students successfully completing the course will receive three (3) credits from CCSU. Credit for the college credit follows the articulated college's credit and grading policies.

Academy of Public Service Courses [continued]

ECE If You Love It, Teach It! — *Grade 12*

730	ECE If You Love It, Teach It!	Advanced	1 Credit

Recommended Prerequisite: Educators Rising. *Grade 12 students only (UCONN requires three years of English completed)* This course awards 3 UCONN credits. This is an educational foundations survey course for those who are interested in learning more about the landscape of K-12 education and how to connect their passions to it. If You Love it, Teach It engages students interested in working in K-12 settings in studies about teaching, learning, and schooling in the United States. It explores teaching and learning as processes that can relate to personal passions as well as how those passions are shaped, cultivated, or denied in different educational contexts. Course topics will include introductions to historical, philosophical, and social foundations of education, as well as how those foundations and personal passions relate to teaching as a profession, school organization, educational reform, and the reimagining of educational futures. Credit for the college credit follows the articulated college's credit and grading policies.

Preschool Teacher Assistant — *Grade 12*

754	Preschool Teacher Assistant	College & Career Prep	1 Credit

Prerequisite: Application Required in April of Junior Year. This course is limited to grade 12 senior students who will receive 1 credit for working as a teacher's assistant in Little Cane's Academy. Responsibilities include: setting up Little Cane's, assisting the teachers in the daily operation, and completing monthly projects that ensure the productive atmosphere for the work related environment

Elementary Assistant Program — *Grades 11, 12*

742	Elementary Assistant Program	College & Career Prep	1 Credit

Prerequisite: Child Development 1 or 2 and with teacher recommendation. An application is required to be considered. This course is designed for students interested in pursuing a career in early childhood education or child-related career fields. The volunteer will go by bus at 1:00pm to the assigned school and assist in the elementary classroom until the end of their school day. The cooperating teacher will determine the duties for the volunteer. This internship experience will require weekly journals of observations and activities along with a daily attendance record. Students will be dismissed when the elementary students are dismissed and are required to provide their own transportation home. Students may be presented with the opportunity for compensation.

CE Diversity, Equity and Inclusion in Education — *Grades 11, 12*

740	CE Diversity, Equity and Inclusion in Education	Advanced	.5 Credit

Central Connecticut State University (3 Credits) In this course, students will examine the evolving purposes and roles of education and teachers in American society, issues of diversity and equity in education, and the societal and cultural factors, key policies, and court cases that have shaped U.S. education. The course also investigates first person narratives, media, film, art, and literature in relation to diversity, equity and inclusion in education. Credit for the college credit follows the articulated college's credit and grading policies.

AoPS First Responder Pathway

The First Responder Pathway is one of the newest pathways in the Public Service Academy. This pathway introduces students to principals in relating to careers in Police, Fire, and Emergency Responders. Students have opportunitues to hear from City of New Britain partners and learn in an environment that siumulate real world experiences. **First Responder occupations include but are not limited to:** Police Officer, Firefighter, Emergency Medical Responder (EMS)

First Responder Pathway

Grade 9	Grade 10	Grade 11	Grade 12
732 Introduction to First Responders .5 Credit	**732** Introduction to First Responders .5 Credit	**732** Introduction to First Responders .5 Credit	**734** Introduction to Emergency Medical Responders .5 Credit

Academy of Public Service Courses [continued]

Intro To First Responders			*Grades 9, 10, 11, 12*
732	**Intro To First Responders**	**College & Career Prep**	**.5 Credit**

This course will introduce students to the fundamental principles related to our laws, public safety and security. Students will gain insight and understanding relative to career path preparation needed for firefighting, law enforcement and being an emergency medical services (EMS) and other related areas of public service. A variety of instructional approaches including demonstrations, hands-on lab work, guest speakers, and research will be included. Each course will be taught under the auspices of a City of New Britain firefighter instructor. Police Academy instructor and will also involve New Britain Emergency Medical Services personnel.

Introduction to Emergency Medical Responders			*Grades 10, 11, 12*
734	**Introduction to Emergency Medical Responders**	**College & Career Prep**	**.5 Credit**

Prerequisites: Teacher recommended from the Health Science or Public Service Academies. This course introduces students to the fundamentals of emergency care, patient assessment, CPR, and essential life-saving interventions. As a hands-on, skills-based program, each class builds on prior instruction; therefore, a strict attendance policy is required for successful completion. Students will engage in practical scenarios, teamwork exercises, and supervised skill demonstrations to develop confidence and competency in emergency care. Upon meeting all course requirements including grade, attendance and skills requirements, students will be eligible to take the National Registry EMR examination and may earn national certification. This course provides an excellent foundation for future pathways in EMS, healthcare, and public safety.

AoPS Experiential Learning Opportunities

Work-based learning brings the classroom to the workplace and the workplace to the classroom. This instructional strategy provides students with a well-rounded skill set that goes beyond academics and includes the soft skills needed to succeed in college and the working world. NAF's approach to work-based learning is centered on a continuum of work-based learning experiences beginning with career awareness activities, progressing to career exploration activities, and culminating in career preparation activities, including internships.

Industry and Community Partners guest speak in classrooms, host college and career skills workshops, and take part in mock interviews. Students have the opportunity to tour worksites, network with, and shadow business professionals. Work based learning culminates in an internship that allows students to apply their classroom skills and learn more about what it takes to succeed.

▸ **Experiential Learning** Opportunities

Grade 9 ▸	Grade 10 ▸	Grade 11 ▸	Grade 12
Career Awareness • Guest speakers • College Visits • Field Experience in Elementary Schools (goal is 10 hours)	**Career Exploration** • Lesson Planning • Interactions with Kids • Special Events • RealityWorks "Robot" Baby Project ; "Egg Baby" Childcare Project • Opportunities to Complete Artistic Projects in Classrooms and Preschool.	**Career Exploration** • Teacher Talks Guest Speakers • College Visits • Lesson Planning and Delivery • RealityWorks "Robot" Baby Project • Little Canes Field Experience • Para Pro ◆	**Career Exploration** • Google Site-ePortfolio • Field work in neighborhood schools • Online Discussion Posts • Lesson Planning and Delivery • Para Pro ◆

Academy of Health & Sciences (AoHS)

Our mission for the Academy of Health & Sciences is to have students develop an understanding of the theory, concepts, technical knowledge and analytical abilities that will enable them to deliver healthcare services. We also encourage the student to seek further education and knowledge in the healthcare field. At New Britain High School we offer two pathways in the healthcare field. Pathway one is focused on students pursuing four or more years of higher education. Pathway two is focused on students pursuing up to four years of higher education or a certificate program.

Project Lead the Way Biomedical Science Program (BMS)

Working with the same equipment and tools used by lab professionals, PLTW Biomedical Science students are empowered to explore and find solutions to some of today's most pressing medical challenges. Through scaffolded activities that connect learning to life, students step into the roles of biomedical science professionals and investigate topics including human medicine, physiology, genetics, microbiology, and public health. Students work together in teams to find unique solutions, and in the process, learn in-demand, transferable skills like critical thinking and communication.

▸ **Biomedical Sciences** Pathway

Grade 9	Grade 10	Grade 11	Grade 12
581 BMS 1 - Principles of Biomedical Sciences 1 Credit / Equals 2 NAF Courses	**581** BMS 1 - Principles of Biomedical Sciences 1 Credit / Equals 2 NAF Courses **551** BMS 2 - Human Body Systems 1 Credit / Equals 2 NAF Courses	**551** BMS 2 - Human Body Systems 1 Credit / Equals 2 NAF Courses **501** BMS 3 - Medical Interventions 1 Credit / Equals 2 NAF Courses **786** ECE Introduction to Allied Health Professions .5 Credit / 1 UConn Credit **550** ECE Medical Terminology (Virtual Course) .5 Credit / 2 UConn Credits **764** Nursing Assistant 1 Credit/ Equals 2 NAF Courses **766** Hospital Training 1 Credit	**501** BMS 3 - Medical Interventions 1 Credit/ Equals 2 NAF Courses **511** BMS 4 - Biomedical Innovation 1 Credit / Equals 2 NAF Courses **786** ECE Introduction to Allied Health Professions .5 Credit / 2 UConn Credits **550** ECE Medical Terminology (Virtual Course) .5 Credit / 2 UConn Credits **764** Nursing Assistant 1 Credit/ Equals 2 NAF Courses **766** Hospital Training 1 Credit

Academy of Health & Sciences Courses

BMS 1 – Principles Of Biomedical Sciences

Grades 9, 10

581	BMS 1 – Principles Of Biomedical Sciences	Honors*	1 Credit

Principles of Biomedical Science (PBS) is the first full-year high school course in the PLTW Biomedical Science Program. Students will analyze the evidence found at a crime scene and help the medical examiner uncover clues left on a body to solve a mystery. Question, diagnose, and propose treatment and care for patients in a family medical practice. Track down the source of a mysterious outbreak at a local hospital. Access and stabilize a patient during an emergency and prepare for medical surge and mobile medical care. Collaborate with professionals in other fields to innovate and design solutions to local and global medical problems. Whether seeking a career in medicine or healthcare or simply looking to solve the challenge of real-world problems, students in Principles of Biomedical Science will practice how to think creatively and critically to innovate in science and will gain practical experience with experimental design and the design process. ***Students may receive college quality points for receiving at least an 83% average in the course and earn "Accomplished" or "Distinguished" level scores on the PLTW End of Course Exam. PBS qualifies as one honors level STEM graduation requirement.**

BMS 2 - Human Body Systems

Grades 10, 11

551	BMS 2 - Human Body Systems	Honors*	1 Credit

Students completing PBS 581 have priority enrollment in HBS. Human Body Systems (HBS) is a full-year high school course designed to follow Principles of Biomedical Science (PBS) in the PLTW Biomedical Science pathway. The HBS course provides foundational knowledge and skills in anatomy and physiology, clinical medicine, and laboratory research. The course engages students in how this content can be applied to real-world situations, cases, and problems. The HBS course includes interviews, challenges, and testimonials from biomedical professionals in a variety of settings—clinical, research, and public health. Through both individual and collaborative team activities, projects, and problems, students tackle real-world challenges that biomedical professionals face in the field. Students work with the same tools and equipment used in hospitals and labs as they engage in relevant hands-on work. They explore BioDigital™ 3D interactive models, simulations, and assessments to visualize human anatomy and physiology. Students develop skill in technical documentation to represent and communicate experimental findings and solutions to problems, as well as skill in ethical reasoning and clinical empathy. ***Students may receive college quality points for receiving at least an 83% average in the course and earn "Accomplished" or "Distinguished" level scores on the PLTW End of Course Exam. HBS qualifies as one honors level STEM graduation requirement**

BMS 3 - Medical Interventions

Grades 11, 12

501	BMS 3 - Medical Interventions	Honors*	1 Credit

Prerequisite: BMS 1 or BMS 2. Medical Interventions (MI) allows students to investigate the variety of interventions involved in the prevention, diagnosis, and treatment of disease as they follow the lives of a fictitious family. A "How-To" manual for maintaining overall health and homeostasis in the body, the course will explore how to prevent and fight infection, how to screen and evaluate the code in our DNA, how to prevent, diagnose, and treat cancer, and how to prevail when the organs of the body begin to fail. Through these scenarios students will be exposed to the wide range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, and diagnostics. Each family case scenario will introduce multiple types of interventions, reinforce concepts learned in the previous two courses, and present new content. Interventions may range from simple diagnostic tests to treatment of complex diseases and disorders. These interventions will be showcased across the generations of the family and will provide a look at the past, present, and future of biomedical science. Lifestyle choices and preventive measures are emphasized throughout the course as well as the important role that scientific thinking and engineering design play in the development of interventions of the future. ***Students may receive college quality points for receiving at least an 83% average in the course and earn "Accomplished" or "Distinguished" level scores on the PLTW End of Course Exam. MI qualifies as one honors level STEM graduation requirement**

Academy of Health & Sciences Courses [continued]

BMS 4 - Biomedical Innovation			Grade 12
511	BMS 4 - Biomedical Innovation	Honors*	1 Credit

Prerequisite: BMS 2 and BMS 3. In the final course of the PLTW Biomedical Science sequence, students build on the knowledge and skills gained from previous courses to design innovative solutions for the most pressing health challenges of the 21st century. Students address topics ranging from public health and biomedical engineering to clinical medicine and physiology. They have the opportunity to work on an independent project with a mentor or advisor from a university, medical facility, or research institution. ***Students may receive college quality points for receiving at least an 83% average in the course and earn "Accomplished" or "Distinguished" level scores on the PLTW End of Course Exam. BI qualifies as one honors level STEM graduation requirement**

Healthcare Science Program (HCS)

Healthcare Sciences curricula provides a rigorous and comprehensive program of study designed to prepare learners with the content knowledge and transferable competencies necessary for success in college and healthcare careers. Students have the opportunity to obtain college credit and/or certifications through partnerships with local colleges, universities and healthcare facilities.

Healthcare Sciences Pathway

Grade 9	Grade 10	Grade 11	Grade 12
768 HCS 1 - Healthcare Science 1 .5 Credit	**782** HCS 2 - Healthcare Science 2 1 Credit / Equals 1 NAF Course	**784** HCS 3 - Healthcare Science 3 1 Credit/ Equals 1 NAF Course **786** ECE Introduction to Allied Health Professions .5 Credit / 1 UConn Credit **550** ECE Medical Terminology (Virtual Course) .5 Credit / 2 UConn Credits	**764** Nursing Assistant 1 Credit/ Equals 1 NAF Course **766** Hospital Training .5 Credit **786** ECE Introduction to Allied Health Professions .5 Credit / 2 UConn Credits **550** ECE Medical Terminology (Virtual Course) .5 Credit / 2 UConn Credits

Academy of Health & Sciences Courses [continued]

HCS-1 - Healthcare Science 1			Grade 9
768	HCS-1 - Healthcare Science 1	College & Career Prep	.5 Credit

Grade 9 - Prerequisite: Application Required; Available on Powerschool. This course teaches students about the evolution of the healthcare industry and helps them to develop leadership skills. Through the course, students will build a foundation of medical terminology and basic anatomy, as well as wellness and health promotion concepts. They will explore the range of healthcare professions, develop life skills and have the opportunity to engage in career planning.

Academy of Health & Sciences Courses [continued]

HCS-2 - Healthcare Science 2

Grade 10

782	HCS-2 - Healthcare Science 2	College & Career Prep	1 Credit

Grade 10 - Prerequisite: Application Required; Available on Powerschool. *Students who have taken HCS1 have priority enrollment in HCS2.* This course is designed to introduce students to the various aspects of and career opportunities in healthcare. Healthcare is a large and growing employment sector and requires a workforce with diverse talents. Topics to be covered in this course include, but are not limited to, the terminology of healthcare; an overview of the varied healthcare occupations; basic principles and dimensions of healthcare. Experiences such as site visits, job shadows, hands-on and E-learning will be integrated as appropriate.

HCS-3 - Healthcare Science 3

Grade 11

784	HCS-3 - Healthcare Science 3	College & Career Prep	1 Credit

Grade 11 - Prerequisite: HCS 2 (Recommended). This course is designed to prepare potential health care workers, preferably juniors and seniors, for performance in advanced technical or professional health careers. Emphasis is placed on anatomy and physiology learning the 11 body systems. Students will explore job categories/occupations identified by our primary healthcare partners, Hospital for Special Care and The Hospital of Central Connecticut. In addition, students will have the opportunity to learn more about certificate programs that can be achieved while in high school or soon after graduation. Skills in mathematics, science, communications and critical thinking are reinforced in this course. Work-based learning strategies include the development of individualized clinical skills specifically related to specific careers.

ECE- Medical Terminology (Virtual Course)

Grades 11, 12

550	ECE- Medical Terminology (Virtual Course)	Advanced	.5 Credit

Prerequisite: Biology. This Uconn ECE (Early College Experience) course offers an introduction and mastery of medical terminology through presentation of word roots, prefixes and suffixes. Disease processes, symptoms, diagnosis, and treatments that affect various body systems. Terminology associated with disease processes, symptoms, diagnosis, clinical procedures, laboratory tests, and treatments that affect various body systems. This course at NBHS is 100% Virtual. There is no class to physically attend. Students will have period 9 placed on their schedule if they decide to take the class. Completing this course will get students. **2-Free UCONN college credits!**

ECE-Introduction to Allied Health Professions

Grades 11, (12)

786	ECE-Introduction to Allied Health Professions	Advanced	.5 Credit

Grade 11 (Grade 12, if space is available) This Uconn ECE (Early College Experience) course is an overview of allied health professions. A variety of allied health professions will be highlighted. Speakers representing each profession will be invited to describe their work /general duties of the profession, the work environment, educational requirements and employment trends. This course is designed to introduce students to the various allied health programs that lead to job opportunities in healthcare. Students will explore all the programs offered through the Connecticut Community Colleges' Health Career Academy. Completing this course will get students **1-Free UCONN college credit!**

Academy of Health & Sciences Courses [continued]

Nursing Assistant / Hospital Training			Grades 11, 12
764	Nursing Assistant	College & Career Prep	1 Credit
766	Hospital Training (Outside of school day)	College & Career Prep	.5 Credit

Certified Nursing Assistant (764) is a full year course designed for students interested in pursuing a healthcare career, as a Certified Nursing Assistant or fields such as nursing, medical provider or physical therapy. This course focuses on learning the skills required to provide safe, quality patient care. Hospital Training (766) is a requirement of the CNA State Certification, in which students obtain a minimum of 60 hours of clinical practice onsite facility and simulation lab. Students are responsible for their own transportation to clinical experiences. Students will obtain skills necessary to deliver patient care, as well as first aid techniques including Vital Signs and CPR. The successful completion and meeting state requirements for academic work, clinical training, and attendance allows students the opportunity to take the Connecticut Certified Nurse Aide Examination through Prometric at the end of the school year. There is a cost for testing and uniform. All students who wish to take this course will be interviewed by the CNA Teacher and Academy of Health Science Team, and must meet the vaccination requirements imposed by our clinical partners. It is highly recommended that students have taken Health Academy courses prior to applying for the CNA program.

AoHS Experiential Learning Opportunities

Work-based learning brings the classroom to the workplace and the workplace to the classroom. This instructional strategy provides students with a well-rounded skill set that goes beyond academics and includes the soft skills needed to succeed in college and the working world. NAF's approach to work-based learning is centered on a continuum of work-based learning experiences beginning with career awareness activities, progressing to career exploration activities, and culminating in career preparation activities, including internships.

Industry and Community Partners guest speak in classrooms, host college and career skills workshops, and take part in mock interviews. Students have the opportunity to tour worksites, network with, and shadow business professionals. Work based learning culminates in an internship that allows students to apply their classroom skills and learn more about what it takes to succeed.

Experiential Learning Opportunities

Grade 9	Grade 10	Grade 11	Grade 12
Student Engagement • In-School Field Trip • Introduction to HOSA	**Student Engagement** • HOSA Events	**Student Engagement** • HOSA Events	**Career Exploration** • BMS Capstone • Clinical Rotation Capstone

◆ = Certification/Credential

Academy of Manufacturing Engineering Technology (MET)

The Manufacturing Engineering Technology Academy at NBHS is designed to inspire students to be technologically literate and responsible citizens in our age of applied science. Through the use of systems and processes students will explore the world of technology and assist in developing solutions to society's technological problems. The knowledge and skills acquired through these experiences will enable students to actively participate in shaping their future and prepare them for the 21st century.

Our pathways further provide students engaging and relevant opportunities by exploring the STEM (Science, Technology, Engineering, and Mathematics) professions including careers related to computer science, graphic arts, and video production.

Non-traditional Enrollments: The Career & Technical Education staff at New Britain High School encourages female students and those who identify as female to enroll in Technical Education classes. Technical Education classes at New Britain High School provide equitable and inclusive opportunities for all students.

Project Lead the Way High School Pre-Engineering

This is a four-year sequence of courses which, when combined with traditional mathematics and science courses in high school, introduces students to the scope, rigor and discipline of engineering prior to entering college. In addition, students will benefit greatly from the knowledge and logical thought processes that result from taking some or all of the courses provided in the curriculum.

Pre-Engineering Pathway

Students who complete the Pre-Engineering Pathway will develop comprehensive skills in designing, prototyping, and manufacturing original concepts. They will gain a thorough understanding of mechanical advantages and their practical applications. Additionally, students will acquire knowledge in electrical systems and apply these skills to benefit the community. **Engineering related occupations include but are not limited to:** Mechanical Engineer, Electrical Engineer, Design Engineer, Manufacturing Engineer, Quality Control Inspector.

▸ **Pre-Engineering** Pathway

Grade 9	Grade 10	Grade 11	Grade 12
811 CE Engineering Essentials with Electrical Application 1 Credit / 3 CCSU Credits **821** Introduction to Engineering Design (PLTW) 1 Credit	**821** Introduction to Engineering Design (PLTW) 1 Credit **811** CE Engineering Essentials with Electrical Application 1 Credit / 3 CCSU Credits	**851** Computer Integrated Manufacturing 1 Credit	**560** ECE Physics 1 Credit / 8 UConn Credits **844** Manufacturing 1 .5 Credit **876** Residential Construction 1 Credit **822** CAD Construction .5 Credit **818** Automotive Technology 1 1 Credit

Academy of Manufacturing Engineering Technology Courses

Explorations In Stem Careers — *Grades 9, 10, 11, 12*

802	**Explorations In Stem Careers**	**College & Career Prep**	**1 Credit**

This foundation course introduces students to career opportunities in STEM. This can be taken as part of any pathway in the MET academy. Topics to be covered in this course include, but are not limited to, basic concepts, processes and skills of technology & engineering; an overview of the varied STEM occupations; engineering design modeling, laser engraving, blueprint reading; manufacturing tools such as 3D printers and CNC machines, as well engineering software.

CE Engineering Essentials with Electrical Application — *Grades 9, 10, 11, 12*

811	**CE Engineering Essentials with Electrical Application**	**Advanced**	**1 Credit**

Prerequisite: Concurrent Enrollment in Accelerated or Higher Science and Math. Central Connecticut State University (3 Credits) This course is designed to inspire students to explore learning through experimentation. Students will learn how to assemble, disassemble and reverse engineer products. Students will modify toys to be handicap accessible and then donate them to families in need through the Go Baby Go Powered Mobility Program with CCSU. Students will also be introduced to projects using Arduino microcontrollers. This class is also recommended for students interested in computer science. Intro to Engineering and Engineering Essentials will run on alternating years. Credit for the college credit follows the articulated college's credit and grading policies.

Introduction to Engineering Design (PLTW) — *Grades 9, 10, 11, 12*

821	**Introduction to Engineering Design (PLTW)**	**Honors***	**1 Credit**

Prerequisite: Concurrent Enrollment in Accelerated or Higher Science and Math. This is a foundation course that teaches problem-solving skills using a design process. Models of product solutions are created, analyzed, and communicated using 3D Computer-Aided Design software. Students will prototype their CAD designs using 3D Printers. This class is also recommended for students interested in computer science. Intro to Engineering and Engineering Essentials will run on alternating years ***Students may receive college quality points for receiving at least an 80% average in the course and 70 or above on the college credit exam.**

Computer Integrated Manufacturing — *Grades 11, 12*

851	**Computer Integrated Manufacturing**	**Honors**	**1 Credit**

Prerequisite: Has successfully completed one of the following: 2 years of Engineering, 2 years of Manufacturing, 2 years of Construction or 2 years of Automotive. CIM is a specialization course that applies principles of prototyping, robotics, and automation. Students will apply their previous knowledge using a CNC Mill, Lathe, and Router as well as 3D Printers and a Laser Engraver to produce models of their three-dimensional designs. Students are also introduced to the fundamentals of running a business that uses precision manufacturing.

Principles Of Engineering (PLTW) — *Grade 12*

841	**Principles Of Engineering (PLTW)**	**Honors***	**1 Credit**

Prerequisite: Has earned 3 credits from the MET Academy. Principles of Engineering qualifies for one-half honors credit as part of the 3-credit graduation requirement for a physical science course. This course helps students understand the field of engineering/engineering technology. Exploring various technology systems and manufacturing processes assists students in learning how engineers and technicians use math, science, and technology in an engineering problem-solving process to benefit people. Models of product solutions are created, analyzed, and communicated using 3D solid modeling computer design software. ***Students may receive college quality points for receiving at least an 80% average in the course and 70 or above on the college credit exam.**

Engines and Automotives Pathway

Students in the Engines andAutomotive Pathway will gain comprehensive knowledge in small engines, as well as automotive and power equipment repair. Through hands-on experience, students will enhance their mechanical problem-solving skills by diagnosing and repairing real equipment, such as broken snow blowers, dirt bikes, or cars. **Automotive related occupations include but are not limited to:** Mechanic, Automotive Technician, Quality Control Inspector, Automotive Engineer.

Engines and Automotives Pathway

Grade 9	Grade 10	Grade 11	Grade 12
818 Automotive Technology 1 1 Credit	**816** Automotive Technology 2 1 Credit	**Independent Study**	**844** Manufacturing 1 .5 Credit **874** Construction 1 .5 Credit **818** Automotive Technology 1 1 Credit **811** CE Engineering Essentials with Electrical Application 1 Credit / 3 CCSU Credits

Academy of Manufacturing Engineering Technology Courses [continued]

Automotive Technology 1 — *Grades 9, 10, 11, 12*

818	**Automotive Technology 1**	**College & Career Prep**	**1 Credit**

Students have the opportunity to learn how to solve problems with tools. Lab safety will be emphasized, and hand tool skills will be focused on. The class will be centered around small engine projects. Students will fully disassemble, reassemble, and run 4-stroke-cycle engines. This is a great class for any career, as the ability to repair broken items will benefit students throughout their lives, regardless of their vocation.

Automotive Technology 2 — *Grades 10, 11, 12*

816	**Automotive Technology 2**	**College & Career Prep**	**1 Credit**

Prerequisite: Automotive Technology 1 or Teacher Recommendation. This class offers students the opportunity to further develop their mechanical problem-solving skills. Lab safety will be emphasized, and both hand and power tool skills will be developed. The class will be centered around automotive systems, and students will have the opportunity to earn multiple Snap-On Tools Certifications in various Automotive areas. The certifications will give students an advantage toward becoming gainfully employed when they pursue careers. This is a great class for any career, as the ability to repair broken items will benefit students throughout their lives, regardless of their vocation.

MET Manufacturing Pathway

Students who complete the Manufacturing Pathway will acquire advanced skills in traditional manufacturing, as well as precision machining with CNC programming. They will learn to design and produce high-quality components using industry-standard equipment and software. **Manufacturing related occupations include but are not limited to:** Tool & Die Maker, Automation Engineer, Mig-Tig-Stick Welder, Inspector, Automation Engineer, CNC Operator

Manufacturing Pathway

Grade 9	Grade 10	Grade 11	Grade 12
844 Manufacturing 1 .5 Credit	**846** Manufacturing 2 1 Credit	**851** Computer Integrated Manufacturing 1 Credit	**818** Automotive Technology 1 1 Credit **876** Residential Construction 1 Credit **822** CAD Construction .5 Credit **821** Introduction to Engineering Design (PLTW) 1 Credit

Academy of Manufacturing Engineering Technology Courses [continued]

Manufacturing 1			*Grades 9, 10, 11, 12*
844	**Manufacturing 1**	**College & Career Prep**	**.5 Credit**

Introduces the student to the fundamentals of metal machining technology, CAD modeling, and blueprint reading. The student is introduced to the basic metal machining equipment, including lathe, vertical & horizontal milling machines, vertical & horizontal bandsaws, and surface grinders. Students will perform basic lathe operations, which will consist of facing, center-drilling, chuck turning, turning between centers, grooving, tapers, knurling, and single-point threading. Additionally, students will perform basic mill operations, which will consist of material squaring, pocketing, slotting, milling at an angle, and engraving. Furthermore, students will be able to identify the major parts of the mills & lathes, align a vise, use a dial indicator, edge finder, determine speeds &feeds, perform simple indexing, mill flat, square surfaces and slots, drill, and tap holes.

Manufacturing 2			*Grades 10, 11, 12*
846	**Manufacturing 2**	**College & Career Prep**	**1 Credit**

Prerequisite Manufacturing 1. Pending * CCSU Credit (3 credits) Provides the student with an in-depth exposure to the manual lathe & milling operations as well as exposure to programming the ProtoTrak KMX controller for automated 3-axis milling operations. Students will perform lathe operations consisting of center alignment, facing, center-drilling, chuck turning, turning between centers, boring, reaming, tapping, grooving, tapers, knurling, and threading. Vertical & horizontal milling operations will include an introduction to the offset boring head, side & face milling cutters, and programming the KMX controller to mill complex part geometries.

MET Construction Pathway

The Construction Pathway provides students with a comprehensive introduction to the tools, techniques, and methodologies utilized in the construction industry. The program emphasizes a thorough understanding of the core principles of construction technology, as well as the critical interrelationship between management and production processes. **Construction related occupations include but are not limited to:** Carpenter, Roofer, Painter, Operating Engineer, Cabinet Maker

Construction Pathway

Grade 9	Grade 10	Grade 11	Grade 12
874 Construction 1 .5 Credit	**822** CAD Construction .5 Credit **876** Residential Construction 1 Credit	**876** Residential Construction 1 Credit **822** CAD Construction .5 Credit	**MET Academy Elective**

Academy of Manufacturing Engineering Technology Courses [continued]

Construction 1

Grades 9, 10, 11, 12

874	Construction 1	College & Career Prep	.5 Credit

Students will be introduced to shop safety and using tools of the trade. Tools and machines include the drill press, miter saw, table saw, band saw, and router. They will use West Point Bridge Builder to create blueprints then create model bridges, and then run stress tests and cost analysis. Students will be introduced to a working woodshop for hands-on learning and will create several projects to take home such as cutting names or initials on the scroll saw or CNC router, bridges, and keepsake boxes. Students will benefit from becoming competent in tools because these skills can be useful for projects around their house as well as in a future career in the trades, including entry level positions at a construction company

Residential Construction

Grades 10, 11, 12

876	Residential Construction	College & Career Prep	1 Credit

Prerequisite: Construction 1. Residential Construction provides students with a working understanding of the key elements associated with designing, planning, and constructing a structure on-site. Students learn major concepts through hands-on activities using contemporary construction tools and materials. Activities involve a variety of types of construction, such as designing and building a scale model house demonstrating platform house framing. Past community-based projects have included building a garden arbor for the school greenhouse, and squat boxes for the school weight room. Emphasis is placed on student understanding of the major concepts of construction technology as well as the interrelationship of management and production. Concepts and skills learned in this course would make a student a great candidate for an apprenticeship program/skilled trade in the construction field after high school. The content and activities reflect the Connecticut Career Pathway of Design/Pre-Construction.

CAD Construction

Grades 10, 11, 12

822	CAD Construction	College & Career Prep	.5 Credit

Prerequisite: Construction 1. This course will focus on the use of computer aided design (CAD) to design and build a variety of projects. These projects may include CNC and laser engraver sign making, furniture, home goods, and other wood-based projects. Students will be trained in the use of specialized computer software including Fusion360 and Adobe Illustrator. They will apply these skills to the CNC machine, laser engraver, and other modern industrial machines. Upon completion of this course students may be given an opportunity to job shadow industry professionals and will be qualified for entry level positions in many different construction and manufacturing careers.

MET Media & Design Pathway

Students who complete the Media & Design Pathway will develop expertise in digital design and multimedia production using industry-standard tools like Adobe Illustrator, Adobe Photoshop, and Final Cut Pro. They will create professional-quality graphics, edit photos and videos, and produce engaging visual content for various applications. **Graphics and Video related occupations include but are not limited to:** Graphic Designer, Video Editor, Web Designer, Digital Illustrator, Branding Specialist, Photographer/Photo Editor

Media & Design Pathway

Grade 9	Grade 10	Grade 11	Grade 12
884 Graphic Arts 1 .5 Credit	**854** Graphic Arts 2 1 Credit **894** Video Production 1 .5 Credit **896** Video Production 2 .5 Credit	**894** Video Production 1 .5 Credit **896** Video Production 2 .5 Credit **854** Graphic Arts 2 1 Credit	**MET Academy Elective**

Academy of Manufacturing Engineering Technology Courses [continued]

Graphic Arts 1

Grades 9, 10, 11, 12

884	**Graphic Arts 1**	**College & Career Prep**	**.5 Credit**

Graphic arts combine technology and art to visually communicate ideas. Students will be introduced to terminology, technical systems, and processes used by the graphics industry with classroom activities and projects. The main programs used will be Adobe Illustrator and Adobe Photoshop. Basic Illustrator skills, such as text creation, and basic Photoshop skills such as non-destructive photo editing will be explored. Students will begin a digital portfolio of the work created in this class that they can use for their future college or career pathway.

Graphic Arts 2

Grades 10, 11, 12

854	**Graphic Arts 2**	**College & Career Prep**	**1 Credit**

Prerequisite: Graphic Arts 1. Communication is a major industry in our world. Students will be introduced to the world of desktop publishing and the field of digital arts. The students learn terminology, technical systems, and advanced processes used by the industry. The technologies used in Graphic Arts 2, Adobe Photoshop and Adobe Illustrator, as well as advanced techniques built upon what was learned in Graphic Arts I, are used to prepare the students for a career within this profession and give students a competitive edge in industry. Students will complete a digital portfolio of the work created in this class that they can use for their future college or career pathway. They will also get an opportunity to use the laser engraver and the vinyl cutter for certain projects.

Graphic Arts 3

Grades 10, 11, 12

856	**Graphic Arts 3**	**College & Career Prep**	**1 Credit**

Prerequisite: Graphic Arts 1 and Graphic Arts 2. This is a continuation of Graphic Arts 2 with even more advanced levels of work in the graphics industry. Emphasis is on advanced desktop publishing techniques and advanced digital art. More industry level advanced Adobe Photoshop, Adobe Illustrator, and an introduction to Adobe InDesign techniques will be explored. Students will have the opportunity to use various equipment, such as laser and CNC engravers, vinyl cutters, and other graphic arts related equipment. Students will finish a digital design portfolio of the work created in all graphic arts classes.

Academy of Manufacturing Engineering Technology Courses [continued]

Website Design 1

Grades 9, 10, 11, 12

886	**WebSite Design 1**	**College & Career Prep**	**.5 Credit**

Web Design provides a hands-on introduction to designing, building, and launching websites. First, students learn how the World Wide Web works. The students will analyze successful websites and take inspiration from professional design practices and cutting-edge theories. Students will explore visual design elements like color, typography, composition, animation, and branding to create stunning and personally-meaningful websites that show off students' ideas in compelling ways. Finally, students get a chance to discover what types of web design careers exist today.

Video Production 1

Grades 10, 11, 12

894	**Video Production 1**	**College & Career Prep**	**.5 Credit**

Prerequisite: Graphic Arts 1 or permission from instructor. Video Production 1 provides a hands-on introduction to digital video. The course guides students through all phases of digital video production, including pre-production, managing a video shoot, TV studio equipment usage, editing and post-production techniques. Students will work on running the 'behind-the-scenes' NBHS TV Studio for daily morning announcements and learn how to run a live broadcast. Students will have the opportunity to learn video editing programs such as iMovie and Final Cut Pro, as well as a working knowledge of audio and video equipment, lighting, and graphic techniques.

Video Production 2

Grades 10, 11, 12

896	**Video Production 2**	**College & Career Prep**	**.5 Credit**

Prerequisite: Must be taken the same year as Video Production 1, spring semester. This is a continuation of Video Production 1 with more advanced levels of work in the film industry. Students will learn advanced video programming and production techniques, enhanced by classroom activities and fieldwork. Students will continue work on running the 'behind-the-scenes' NBHS TV Studio for daily morning announcements. Advanced techniques in video editing, using Final Cut Pro or iMovie, will allow students to further enhance their digital video production skills. They will have the opportunity to enter contests, create videos for the school, and create a digital video portfolio.

Fine Arts Department

"There is no business in the United States that is not, in some way, dependent on the arts" (Sterling, Carol). Pyramids, cathedrals and rockets exist not because of geometry, theories of structures or thermodynamics, but because they were first a picture, literally a vision, in the minds of those who built them.

Arts experiences and aesthetic decisions are a part of daily life. Many experiences are overtly artistic, such as listening to music or enjoying the architecture of a building. An even greater number of experiences are less overtly artistic but involve making aesthetic choices.

The Fine Arts provide a window into the heart and mind of humankind and its cultures. The Arts foster creativity, self-exploration, and self-expression, allowing them to become an integral part of one's daily life. Enriching as well as incorporating all disciplines, the Fine Arts offer ample opportunity for problem solving and abstract reasoning, and profoundly affect one's perception and awareness of the surrounding world.

Fine Arts Dept. Course Offerings At A Glance

Art Program			
903	Elements Of Art: Art Appreciation	College & Career Prep	.5 Credit
902	Elements Of Art: Intro to Art Pathway	College & Career Prep	.5 Credit
912	Drawing 1	College & Career Prep	.5 Credit
926	Painting 1	College & Career Prep	.5 Credit
916	Sculpture 1	College & Career Prep	.5 Credit
918	Ceramics 1	College & Career Prep	.5 Credit
944	Digital Arts 1	College & Career Prep	.5 Credit
914	Drawing 2	College & Career Prep	.5 Credit
928	Painting 2	College & Career Prep	.5 Credit
924	Sculpture 2	College & Career Prep	.5 Credit
922	Ceramics 2	College & Career Prep	.5 Credit
946	Digital Arts 2	College & Career Prep	.5 Credit
930	AP Studio Art	Advanced	1 Credit
773	Unified Arts	College & Career Prep	.5 Credit

Music Program			
1110	ECE Popular Music and Diversity in American Society	Advanced	.5 Credit
1116	Introduction to Music Technology	College & Career Prep	.5 Credit
1114	Advanced Music Technology	College & Career Prep	.5 Credit
1128	Intro to Music Theory	College & Career Prep	.5 Credit
1126	Advanced Music Theory	College & Career Prep	.5 Credit
1121	ECE Music Theory	Advanced	.5 Credit
1120	AP/ECE Music Theory	Advanced	1 Credit
1138	Introduction to Piano	College & Career Prep	.5 Credit
1136	Advanced Piano	College & Career Prep	.5 Credit

Band Program			
1152	Marching Band	College & Career Prep	.5 Credit
1146	Beginning Band	College & Career Prep	1 Credit
1144	Intermediate Band	College & Career Prep	1 Credit
1142	Concert Band	College & Career Prep	1 Credit
1141	Wind Ensemble	Honors	1 Credit

Band Program (continued)			
1151	Jazz Ensemble	Honors	1 Credit
1158	Beginning Percussion Ensemble	College & Career Prep	1 Credit
1156	Percussion Ensemble	College & Career Prep	1 Credit
1154	Advanced Percussion Ensemble	Honors	1 Credit

Choral Program			
1168	Freshman Concert Choir	College & Career Prep	1 Credit
1166	Concert Choir	College & Career Prep	1 Credit
1171	Select Treble Ensemble	Honors	1 Credit
1161	Madrigal Singers/Show Choir	Honors	1 Credit

Orchestral Program			
1184	String Orchestra	College & Career Prep	1 Credit
1181	Advanced Orchestra	Honors	1 Credit

Theater Program			
1026	Stagecraft	College & Career Prep	1 Credit
1018	Acting I	College & Career Prep	.5 Credit
1016	Acting II	College & Career Prep	.5 Credit

Dance Program			
1062	Color Guard and Cane-ettes	College & Career Prep	.5 Credit

NBHS Art Program

"The true sign of intelligence is not knowledge but imagination" (Einstein, Albert).

The city of New Britain has a rich tradition in the visual arts. The New Britain Museum, CCSU, The Art League of New Britain and The Children's Museum all contribute to this fine heritage. NBHS's art department offers our students a curriculum that supports and develops their artistic, observational and aesthetic skills. Through a variety of courses students are stimulated intellectually, creatively and culturally to find solutions to creative problems. Students enrolled in art courses gain a broadened awareness of self when they are able to create a piece of art that they have developed from inception to the final product. New Britain High's art department fosters right brain thinking through artistry, empathy and inventiveness and helps our students become visually literate. Data supports that in our global economy it is the right brain critical and creative thinkers that are able to adapt and develop ideas critical in our ever-changing world. The courses offered i n the art department are designed to help students reach their artistic potential and provide a foundation for a life-long involvement with art.

Art Program Courses

Elements Of Art: Art Appreciation			*Grades 9, 10, 11, 12*
903	**Elements Of Art: Art Appreciation**	**College & Career Prep**	**.5 Credit**

This semester course is for students who do not want to pursue any other art courses. Students will gain an understanding of how they can utilize the Elements of Art and Principles of Design to explore the world of art. Various themes, artist styles, and movements will be discussed. Students will analyze visual communication and artistic themes, ideas, and feelings through art analysis and art making.

Elements Of Art: Intro to Art Pathway			*Grades 9, 10, 11, 12*
902	**Elements Of Art: Intro to Art Pathway**	**College & Career Prep**	**.5 Credit**

This semester course is for students who want to pursue higher level art courses. Students will gain an understanding of how they can utilize the Elements of Art and Principles of Design to explore the world of art. Various themes, artist styles, and movements will be discussed. Students will analyze visual communication and artistic themes, ideas, through larger projects using a wide variety of artistic media. A sketchbook is required for this class. Journal keeping is an important part of the course. Themes skills and techniques will be taught as the foundation for all other art courses in the program.

Drawing 1			*Grades 9, 10, 11, 12*
912	**912 Drawing 1**	**College & Career Prep**	**.5 Credit**

Prerequisite: 70% or better in 902 Elements of Art: Intro to Art Pathway. This is a semester course for those students who wish to continue in art. Students will concentrate on a variety of media and techniques used in drawing applications. Originality and creative problem-solving is stressed. Media highlighted in this course will be graphite, colored pencil and ink. Students will work from direct observation and realistic depiction of form. A sketchbook is required for the class. Assessments are based on knowledge of artists, art styles, and art terms discussed in class as well as development of skills and techniques.

Art Program Courses [continued]

Painting 1

Grades 9, 10, 11, 12

926	**Painting 1**	**College & Career Prep**	**.5 Credit**

Prerequisite: 70% or better in 902 Elements of Art: Intro to Art Pathway. This is a semester course for those students who wish to continue in art. Students will concentrate on a variety of media and techniques used in painting applications. Originality and creative problem-solving is stressed. Media highlighted in this course will be watercolor and acrylic on paper, board and canvas.. Students will incorporate direct observation working toward expressive painting techniques. A sketchbook is required for the class. Assessments are based on knowledge of artists, art styles, and art terms discussed in class as well as development of skills and techniques.

Ceramics 1

Grades 9, 10, 11, 12

918	**Ceramics 1**	**College & Career Prep**	**.5 Credit**

Prerequisite: 70% or better in 902 Elements of Art: Intro to Art Pathway. This is a semester course that explores techniques and develops skills in the ceramic medium taught with an appreciation of the rich history and well-known artists in this particular form of art expression. Various themes, artist styles and movements will be discussed and students will be able focus on their own individual style in this class. Students will utilize their own style to communicate their themes, ideas and feelings through art making. Students will learn a variety of hand building techniques and experiment with underglazes and glazes.

Sculpture 1

Grades 9, 10, 11, 12

916	**Sculpture 1**	**College & Career Prep**	**.5 Credit**

Prerequisite: 70% or better in 902 Elements of Art: Intro to Art Pathway. This is a semester course that explores techniques and develops sculptural skills and techniques taught with an appreciation of the rich history and well-known artists in this particular form of art expression. Various themes, artist styles and movements will be discussed and students will be able to focus on the development of a variety of skills and techniques. Students will utilize their own style to communicate their themes, ideas and feelings through art making. Students will also focus on using a variety of materials in hands-on construction using sculpture techniques.

Digital Arts 1

Grades 9, 10, 11, 12

944	**Digital Arts 1**	**College & Career Prep**	**.5 Credit**

Prerequisite: 70% or better in 902 Elements of Art: Intro to Art Pathway. In this semester course, students will learn how to navigate industry standard programs in order to digitally sketch, illustrate, paint, draw, and manipulate imagery. Traditional art techniques using modern technology to solve artistic problems. Various themes, artist styles and movements will be discussed and students will be able to focus on the development of a variety of skills and techniques using a digital platform. Students will have practical use of real-world applications for careers in the 21st century arts industry.

Art Program Courses [continued]

Drawing 2

Grades 10, 11, 12

914	**Drawing 2**	**College & Career Prep**	**.5 Credit**

Prerequisite: 70% or better in 902 Elements of Art: Intro to Art Pathway & 70% or better in 912 Drawing 1. In this semester course, students will build upon drawing skills and techniques covered in Drawing I. Students will focus on advancing their own individual drawing skills and developing a voice and originality in their work. Various themes, artist styles and movements will be discussed and students will be able focus on their own individual drawing style in this class. Students will utilize their own style to communicate their themes, ideas and feelings through art making. Some topics that will be covered within the course work are; figure drawing, portraiture, landscape, and more. Students will continue to work with media such as graphite, charcoal, Prismacolors, pastels, markers, etc. Students are expected to keep a sketchbook and journal which will be required for class and outside practice.

Painting 2

Grades 10, 11, 12

928	**Painting 2**	**College & Career Prep**	**.5 Credit**

Prerequisite: 70% or better in 902 Elements of Art: Intro to Art Pathway and 70% or better in 926 Painting 1. In this semester course, students will build upon painting skills and techniques learned in Painting I. Students will focus on advancing their own individual painting skills and develop a voice and originality in their work. Various themes, artist styles, and movements will be discussed and students will be able to focus on their own individual painting style in this class. Students will utilize their own style to communicate their themes, ideas, and feelings through art making. Some topics that will be covered within the course work are; still life, figures, portraiture, landscape, and abstraction. Students will continue to work with media such as watercolor and watercolor pencil, gouache, and acrylic. Students are expected to keep a sketchbook and journal which will be required for class and outside practice.

Ceramics 2

Grades 10, 11, 12

922	**Ceramics 2**	**College & Career Prep**	**.5 Credit**

Prerequisite: 70% or better in 902 Elements of Art: Intro to Art Pathway and 70% or better in 918 Ceramics 1. In this semester course, students will build upon the skills, techniques and processes learned in Ceramics I and will be required to complete a group of finished pieces. This course will focus on advanced hand building and glazing techniques. Students will also have the opportunity to experiment with the pottery wheel and other finishing methods. Various themes, artist styles and movements will be discussed and students will be able to focus on their own individual ceramic style in this class. Students will utilize their own style to communicate their themes, ideas, and feelings through art making.

Sculpture 2

Grades 10, 11, 12

924	**Sculpture 2**	**College & Career Prep**	**.5 Credit**

Prerequisite: 70% or better in 902 Elements of Art: Intro to Art Pathway and 70% or better in 916 Sculpture 1. In this semester course, students will build upon the skills, techniques and processes learned in Sculpture I and will be required to complete a group of finished pieces. This course will focus on construction techniques with materials such as paper mache, plaster sculpting, sewing, and assemblage. Students will have the opportunity to experiment with various materials in creating projects that are additive such as building constructions and compositions, and creating subtractive sculpture utilizing carving tools. Students will utilize their own style to communicate their themes, ideas, and feelings through art making.

Art Program Courses [continued]

Digital Arts 2

Grades 10, 11, 12

946	**Digital Arts 2**	**College & Career Prep**	**.5 Credit**

Prerequisite: 70% or better in 902 Elements of Art: Intro to Art Pathway and 70% or better in 944 Digital Arts 1. In this semester course, students will develop skills and techniques covered in Digital Arts I using various software programs on a tablet/ iPad. Students will digitally sketch, illustrate, paint, draw, and manipulate imagery to create works of art by learning, practicing, and applying traditional art techniques using modern technology to solve artistic problems. Students will have practical use of real-world applications for careers in the 21st century arts industry. A variety of programs and interfaces will be used to create original digital works of art. A digital sketchbook and journal are required for this class.

AP Studio Art

Grades 11, 12

930	**AP Studio Art**	**Advanced**	**1 Credit**

Prerequisite: Permission of the Dept. Chair and previous instructor, and at least one of the following: 928 Painting 2; 914 Drawing 2, 922 Ceramics 2, 946 Digital Arts 2. The AP Studio Art year-long course is for highly motivated students with a serious interest in the visual arts to take college-level work at the high school level. Students are able to choose from the following portfolio submissions: 2D Art & Design, 3D Art & Design or Drawing. Students must have prior art knowledge and skills as well as a basic understanding of the Elements of Art and Principles of Design. Students may utilize technology in a variety of digital art within the coursework. Critiques, artist research, sketching, and working outside of class are important parts of this course. Students are required to submit a portfolio to the College Board, consisting of 10 works of art, in place of a final exam. Students will be evaluated on their personal theme, style, and/or concept, their ability to demonstrate their understanding of a variety of media, techniques, and processes, and the quality of their work. Students are able to repeat the course choosing a different portfolio submission.

Unified Arts

Grades 9, 10, 11, 12

773	**Unified Arts**	**College & Career Prep**	**.5 Credit**

This semester course offers an opportunity for regular education students and special education students to participate in expression in the arts. Students interested in developing leadership skills and learning to work with special populations are encouraged to enroll. The class is set up to have each student gain an appreciation and understanding of each other's abilities in the arts. Students will be expected to participate in creative collaborative projects that demonstrate their ability to teach the skills to a student with disabilities. The class naturally fosters new friendships among the Unified Arts classmates and promotes student leadership and social competencies. Students are welcome to repeat this course multiple semesters.

NBHS Music Program

The Music Program at New Britain High School will help students become aware of the aesthetic values to be found in music through a broad and comprehensive program that includes vocal and instrumental performance, as well as non-performance instruction and exploration of a variety of musical areas. By being enrolled in the music program, students will have the opportunity to realize, discover, expand, and enjoy their own unique talents in music; while at the same time learning to appreciate those of their fellow students.

Non-performance courses are structured for students with little to extensive musical backgrounds. They are designed to engage students in facets of music that most interest them; provide them with tools to understand and create music of their own design; and ultimately prepare them for a career and/or further study in the field of music.

Performance ensembles in the band, choral, and orchestral programs focus on creating 21st century musicians. Students routinely perform at school concerts and events, as well as throughout the Greater New Britain Community, and serve as cultural ambassadors for our City and State both here and abroad.

▸ Music Program Courses

ECE Popular Music and Diversity in American Society			*Grades 10, 11, 12*
1110	**ECE Popular Music and Diversity in American Society**	**Advanced**	**.5 Credit**

Non-Performance Based: (UCONN MUSI 1003) An introduction to popular music and diversity in America: jazz, blues, Top-40 pop, rock, hip-hop, and other genres. Musicians and their music studied in the context of twentieth-century and contemporary American society, emphasizing issues of race, gender, class, and resistance. Students do not need a musical background in-order to enroll for this course. Students will be expected to do listening in-and-out of class, learn how to discuss music, and write several short comparison papers and/or presentations. This is a one semester course.

Introduction to Music Technology			*Grades 9, 10, 11, 12*
1116	**Introduction to Music Technology**	**College & Career Prep**	**.5 Credit**

Non-Performance Based: Love music, but not a musician? Want to learn the skill necessary for a career in music production? This course will study the techniques of modern computer-based music and sound design. Students will explore Digital Audio Workstations (DAWs), synthesizers, MIDI, sampling, composition, electronic music in multiple genres and styles, and music and sound design for film. This is a one semester course.

Advanced Music Technology			*Grades 9, 10, 11, 12*
1114	**Advanced Music Technology**	**College & Career Prep**	**.5 Credit**

Prerequisite: Successful Completion of Introduction to Music Technology. Non-Performance Based: This course will continue to study the techniques of modern computer-based music. Students will explore technology in popular genres such as hip hop and electronic dance music, sound design, music production, composition, mash ups, the Foley Effect, and scoring for film. Students need to pass Introduction to Music Technology in order to enroll for this course. This is a one semester course.

Introduction to Music Theory			*Grades 9, 10, 11, 12*
1128	**Introduction to Music Theory**	**College & Career Prep**	**.5 Credit**

Non-Performance Based: Students will focus on reading, writing, creating, and sight-singing music. Topics covered include notation, pitch, meter, rhythm, modes, scales, keys, intervals and triads. This course is designed for students interested in advancing their musical knowledge. This is not a performance based course; it is writing intensive. This is a one semester course.

Music Program Courses [continued]

Advanced Music Theory / ECE Music Theory			*Grades 10, 11, 12*
1126	Advanced Music Theory	College & Career Prep	.5 Credit
1121	ECE Music Theory	Advanced	.5 Credit

Prerequisite: Successful Completion of Introduction to Music Theory; or Permission of the Instructor. Non-Performance Based: (MUSI 1011) This course is a continuation of Introduction to Music Theory. Students will learn more advanced skills in reading, writing, creating, and performing in the language of music. Topics covered include scales, keys, intervals, triads, tetrachords, musical forms, and chorale writing. Students will also refine dictation and sight singing skills. This is a one semester course. The 1121 ECE course is offered on years that 1120 AP/ECE Music Theory does not run. 1126 is offered every year.

AP/ECE Music Theory			*Grades 11, 12*
1120	AP/ECE Music Theory	Advanced	1 Credit

Prerequisite: Introduction to Music Theory, Advanced Music Theory, and/or Permission of the Instructor. Non-Performance Based: (MUSI 1011 & 1012) This course encompasses two semesters of music theory at the collegiate level. The material covered in this class includes harmony, form, 4-part writing, modulation, cadences, and compositional techniques. Students will develop aural skills through melodic and harmonic dictation, while further enhancing their sight singing skills. The curriculum for this class is based on the requirements set forth by the College Board and UCONN. Students are encouraged to take the AP exam in the spring.

Introduction to Piano			*Grades 9, 10, 11, 12*
1138	Introduction to Piano	College & Career Prep	.5 Credit

Performance Based: This is a hands-on skills-based course that teaches students to read and play music on a keyboard. Students will practice and perform for the class and/or instructor to demonstrate their knowledge and progress. Students will utilize class time at an appropriate pace to work independently while preparing selections provided by the instructor. Students do not need a musical background in-order-to enroll for this course, but strong motor-function skills are recommended, as well as the ability to work independently. This is a one semester course.

Advanced Piano			*Grades 9, 10, 11, 12*
1136	Advanced Piano	College & Career Prep	.5 Credit

Prerequisite: Successful Completion of Introduction to Piano; or Permission of the Instructor. Performance Based: This course continues where Introduction to Piano leaves off. It reinforces concepts previously learned to help students read and play music on the piano. Greater emphasis will be placed on independence between the left and right hands. Students will utilize class time at an appropriate pace to work independently while preparing selections provided by the instructor. This is a one semester course.

NBHS Band Program

Band Program Courses

Marching Band			*Grades 9, 10, 11, 12*
1152	**Marching Band**	**College & Career Prep**	**.5 Credit**

All incoming freshmen instrumentalists are required to enroll in this course, which includes attending band camp 2 weeks before school starts. Participation in the renowned New Britain High School "Golden Hurricane" Marching Band requires a high level of commitment for what is one of the most rewarding experiences in a student's life. The Marching Band is a one semester, ½ credit, co-curricular class that provides a wonderful musical experience for all wind and percussion instrumentalists. Participants of the Golden Hurricane Marching Band develop a deep sense of pride, positive attitude, and musicianship that they frequently display to the community, state, and even at national events. The band performs at home and away football games, as well as several parades throughout the year. The class is only scheduled for the fall; there are times when the band will be required to perform in the spring semester. Class time for this ensemble includes twice-a-week after-school rehearsals, as well as all performances. Attendance at all rehearsals and performances is mandatory. Prior to the start of the school year, the season's music and visual design are introduced to students at the required band camp in August. Students will be awarded credit based on the completion of all fall and winter requirements, including the final exam. This is a one semester course.

Beginning Band			*Grades 9, 10, 11, 12*
1146	**Beginning Band**	**College & Career Prep**	**1 Credit**

Any student with little to no instrumental experience is encouraged to enroll for this ensemble. This full year course works on developing basic instrumental and ensemble techniques through the use of method books and beginning concert literature (grades 1-2). Attendance at all rehearsals and performances is mandatory. Students in the Beginning Band are required to participate in all public performances. All rehearsals and performances are part of the student's grade. All beginning band students are encouraged to concurrently enroll in the Marching Band & Auxiliaries course to continue the tradition of being a member of the renowned award-winning New Britain High School "Golden Hurricane" Marching Band.

Intermediate Band			*Grades 9, 10, 11, 12*
1144	**Intermediate Band**	**College & Career Prep**	**1 Credit**

Prerequisite: Student must have prior Band Experience at the MS or HS Level and Permission of the Instructor. All middle school brass and woodwind instrumentalists should schedule Intermediate Band, as well as 10th-12th graders that need to continue to develop their musicianship skills. This full year course works on instrumental and ensemble techniques, as well as concert literature (grades 2-3). Attendance at all rehearsals and performances is mandatory. Students in the Intermediate Band are required to participate in all public performances. All rehearsals and performances are part of the student's grade. All students must be concurrently enrolled in the Marching Band course to continue the tradition of being a member of the renowned award-winning New Britain High School "Golden Hurricane" Marching Band.

Band Program Courses [continued]

Concert Band

Grades 10, 11, 12

1142	**Concert Band**	**College & Career Prep**	**1 Credit**

Prerequisite: Successful Completion of Intermediate Band and Permission of the Instructor. All 10th-12th grade instrumentalists that have successfully completed Intermediate Band, and with the recommendation of their director, should schedule Concert Band as the next step in their instrumental pathway. The Concert Band is a full year ensemble that focuses on standard band literature (grades 3-4), as well as sight-reading, theory, and ensemble techniques. Students selecting Concert Band are required to participate in all public performances. All rehearsals and performances are part of the student's grade. Concert Band members are encouraged to participate in Regional and All-State auditions. All students must be concurrently enrolled in the Marching Band course to continue the tradition of being a member of the renowned award-winning New Britain High School "Golden Hurricane" Marching Band.

Wind Ensemble

Grades 10, 11, 12

1141	**Wind Ensemble**	**Honors**	**1 Credit**

Prerequisite: By Audition Only and Permission of the Instructor. All 10th-12th grade instrumentalists may audition to join the Wind Ensemble; auditions will occur in January. The Wind Ensemble is a full year course that focuses on advanced band literature (grades 4-6), as well as sight-reading, theory, and ensemble techniques. Students selecting Wind Ensemble are required to participate in all public performances. All rehearsals and performances are part of the student's grade. Wind Ensemble members are encouraged to participate in Regional and All-State auditions. All students should be concurrently enrolled in the Marching Band course to continue the tradition of being a member of the renowned award-winning New Britain High School "Golden Hurricane" Marching Band.

Jazz Ensemble

Grades 10, 11, 12

1151	**Jazz Ensemble**	**Honors**	**1 Credit**

Prerequisite: By Audition Only and Permission of the Instructor. All brass, woodwind, and percussion instrumentalists may audition to join the Jazz Ensemble; auditions will occur in January. The Jazz Ensemble is a full year course that focuses on advanced jazz literature from swing to bee-bop; emphasis will be placed on improvisation, sight-reading, theory, and ensemble techniques. Students selecting Jazz Ensemble are required to participate in all public performances. All rehearsals and performances are part of the student's grade. Jazz Ensemble students may be expected to participate in Wind Ensemble as necessary. Jazz Ensemble members are encouraged to participate in Regional and All-State auditions. All students should be concurrently enrolled in the Marching Band course to continue the tradition of being a member of the renowned award-winning New Britain High School "Golden Hurricane" Marching Band.

Beginning Percussion Ensemble

Grades 9, 10, 11, 12

1158	**Beginning Percussion Ensemble**	**College & Career Prep**	**1 Credit**

Any incoming freshman or student with little to no percussion experience is encouraged to enroll for this ensemble. This full year course works on developing basic snare and mallet rudiments, as well as ensemble techniques through the use of method books and beginning percussion ensemble literature. Students will focus on technique, and notation and rhythmic literacy. Attendance at all rehearsals and performances is mandatory. Students in the Beginning Percussion Ensemble are required to participate in all public performances. All rehearsals and performances are part of the student's grade. Students will work on percussion ensemble features and music for performance in concerts, as well as continuing to work on music for the concert ensembles. Students in this course will perform with the Beginning and Intermediate Bands as necessary. All percussion students in the Marching Band are required to be in a Percussion Ensemble course.

Band Program Courses [continued]

Percussion Ensemble			Grades 10, 11, 12
1156	Percussion Ensemble	College & Career Prep	1 Credit

Prerequisite: Successful Completion of Beginning Percussion Ensemble and Permission of the Instructor. Students will work on more advanced percussion ensemble features and music for performance in concerts, as well as continuing to work on music for the concert ensembles. Standard percussion rudiments and techniques will be reinforced. Participation in fall and winter drumline competitions may occur; participation in these competitions is mandatory. Students in this course will perform with the Intermediate Band, Concert Band, and Wind Ensemble as necessary. All percussion students in the Marching Band are required to be in a Percussion Ensemble course.

Advanced Percussion Ensemble			Grades 10, 11, 12
1154	Advanced Percussion Ensemble	Honors	1 Credit

Prerequisite: Successful Completion of Percussion Ensemble and Permission of the Instructor. Students will work on advanced percussion ensemble features and music for performance in concerts, as well as continuing to work on music for the concert ensembles. Advanced percussion rudiments and techniques will be reinforced. Participation in fall and winter drumline competitions may occur; participation in these competitions is mandatory. Students in this course will perform with the Concert Band, and Wind Ensemble as necessary. All percussion students in the Marching Band are required to be in a Percussion Ensemble course.

NBHS Choral Program

Choral Program Courses

Freshman Concert Choir			Grade 9
1168	Freshman Concert Choir	College & Career Prep	1 Credit

Open to all Freshmen students. This course in choral singing emphasizes the development and application of basic vocal techniques. The study of various styles and periods of music are covered. Several mandatory after school and evening rehearsals and performances are required and are part of the student's overall grade.

Concert Choir			Grades 10, 11, 12
1166	Concert Choir	College & Career Prep	1 Credit

Prerequisite: Successful Completion of Freshman Concert Choir; or Permission of the Instructor. Open to all 10th-12th grade students. This course in choral singing continues the development and application of vocal techniques learned in Freshman Concert Choir. The study of various styles and periods of music are covered. Several mandatory after school and evening rehearsals and performances are required and are part of the student's overall grade.

Select Treble Ensemble			Grades 9, 10, 11, 12
1171	Select Treble Ensemble	Honors	1 Credit

Prerequisite: By Audition Only and Permission of Instructor. This class is by audition only and is designed to expose students to a wide variety of choral music from various cultures and genres. Mandatory rehearsals and performances are required and are part of the student's grade. Attendance and participation at concerts/rehearsals outside of the regular school day, including the Madrigal Feaste, Musical, Spring Productions and various community performances, are required of all students enrolled in this course.

Choral Program Courses [continued]

Madrigal Singers/Show Choir			*Grades 10, 11, 12*
1161	**Madrigal Singers/Show Choir**	**Honors**	**1 Credit**

Prerequisite: By Audition Only and Permission of Instructor. An advanced choral ensemble studying and performing music of all periods and styles. First semester emphasis is on music of the Renaissance Period, with preparation for the annual Elizabethan Madrigal Feaste. Second semester emphasis is on Show Choir music including choreography. Mandatory rehearsals and performances are required and are part of the student's grade. Attendance and participation at concerts/rehearsals outside of the regular school day, including the Madrigal Feaste, Spring Productions and various community performances, are required of all students enrolled in this course.

NBHS Orchestral Program

Orchestral Program Courses

String Orchestra			*Grades 9, 10, 11, 12*
1184	**String Orchestra**	**College & Career Prep**	**1 Credit**

Prerequisite: Student must have prior String Orchestra Experience at the MS or HS Level; or Permission of the Instructor. All freshman string players who successfully participated in 7th and 8th grade orchestra may schedule String Orchestra. Ensemble techniques are stressed through the rehearsal and performance of various forms of the orchestral repertoire. Mandatory rehearsals and performances are required and are part of the student's grade. Participation in public performances and several mandatory rehearsals outside of the school day is required.

Advanced Orchestra			*Grades 10, 11, 12*
1181	**Advanced Orchestra**	**Honors**	**1 Credit**

Prerequisite: By Audition Only and Permission of the Instructor. All 10th-12th grade string players may audition for the Advanced Orchestra. Advanced orchestral and ensemble techniques are stressed through the rehearsal and performance of more advanced literature from the orchestral repertoire. Mandatory rehearsals and performances are required and are part of the student's grade. Participation in public performances and several mandatory rehearsals outside of the school day is required.

NBHS Theater Program

The Theater Program at New Britain High School strives to create a wide range of performance opportunities via its spring musical theater production. Students may audition for a role in the spring musical. Currently, the theater department offers a course in stagecraft. It is designed to provide students with a real-world experience of working in and on the various backstage roles of putting on a show, as well as other various concerts and events in the New Britain High School Auditorium. Participation in public performances outside of the school day is required.

Theater Program Courses

Stagecraft			*Grades 10, 11, 12*
1026	**Stagecraft**	**College & Career Prep**	**1 Credit**

Prerequisite: Approval of the Instructor. This "Hands-On" course deals with various elements of staging principals including lighting, sound, rigging, roping, construction, design, properties and management. In addition to regular class time, students are expected to meet after school and/or evenings when an auditorium production is in progress. This course may be repeated for credit.

Acting I			*Grades 9, 10, 11, 12*
1018	**Acting I**	**College & Career Prep**	**.5 Credit**

Prerequisite: None. This course deals with various elements of acting principals including beginning acting techniques, monologue, scene study, character development & analysis, and scene presentation. In addition to regular class time, students may be expected to meet after school and/or evenings when an auditorium production is in progress.

Acting II			*Grades 9, 10, 11, 12*
1016	**Acting II**	**College & Career Prep**	**.5 Credit**

Prerequisite: Successful Completion of Acting I. This course requires previously taken Acting I or explicit permission by the instructor. This intermediate course in acting for the stage emphasizes skills in all aspects of acting. During this course students will investigate stagecraft, voice, movement, text, improvisation, stage combat, script analysis and performance within focused units of study. The study of various styles and periods of scene-work are covered. Several mandatory after school and evening rehearsals and performances may be required and are part of the student's overall grade.

NBHS Dance Program

The Dance Program at New Britain High School strives to create a wide range of performance opportunities via its dance program. Students may audition to be a member of the Color Guard, Majorettes, or Cane-ettes. Participation in public performances outside of the school day is required.

Dance Program Courses

Color Guard and Cane-ettes			*Grades 9, 10, 11, 12*
1062	**Color Guard and Cane-ettes**	**College & Career Prep**	**.5 Credit**

Prerequisite: By Audition Only and Permission of the Instructor. All members of the Color Guard, Majorettes, and Can-ettes are required to enroll in this course, which includes attending band camp 2 weeks before school starts. Participation in the renowned New Britain High School "Golden Hurricane" Marching Band requires a high level of commitment for what is one of the most rewarding experiences in a student's life. Color Guard and Cane-ettes is a one semester, ½ credit, co-curricular class that provides a wonderful musical experience for all wind and percussion instrumentalists. Participants of the Golden Hurricane Marching Band develop a deep sense of pride, positive attitude, and musicianship that they frequently display to the community, state, and even at national events. The band performs at home and away football games, as well as several parades throughout the year. The class is only scheduled for the fall; there are times when the band will be required to perform in the spring semester. Class time for this ensemble includes twice-a-week after-school rehearsals, as well as all performances. Attendance at all rehearsals and performances is mandatory. Prior to the start of the school year, the season's music and visual design are introduced to students at the required band camp in August. Students will be awarded credit based on the completion of all fall and winter requirements, including the final exam. This is a one semester course.

Physical Education & Health Department

A quality Physical Education and Health Program supports the physical, intellectual, and social-emotional development of students. When students maintain adequate levels of physical fitness and make healthy choices, the conditions and opportunities for learning also increase. For these reasons Physical Education and Health plays an integral role in a comprehensive educational program. To facilitate these optimal levels of wellness, the department is committed to delivering a comprehensive, sequential curriculum. This curriculum will engage and help inspire students to pursue a lifetime of fitness-related activities and healthy decisions.

The Physical Education and Health Department are committed to providing students with the knowledge and skills necessary to link Physical Education and Health to the foundation of a healthy, productive, and fulfilling life. The emphasis on lifetime activities and the application of health-related content to real-world situations will provide the basis for this goal.

Physical Education & Health Dept. Course Offerings At A Glance

Physical Education			
779A	**Physical Education 1**	**College & Career Prep**	**.5 Credit**
779B	**Physical Education 2**	**College & Career Prep**	**.5 Credit**
777	**Physical Education: Adaptive PE**	**College & Career Prep**	**.5 Credit**
Health and Wellness			
7339	**Health and Wellness 1**	**College & Career Prep**	**.5 Credit**
7333	**Health and Wellness 2**	**College & Career Prep**	**.5 Credit**

Physical Education Program

The goal of the Physical Education Program is to provide students with the knowledge, skills to value, and apply physical activity and its benefits for a lifetime. Through active participation in movement and sport, students will foster an appreciation for personal fitness and other social skills vital to becoming healthy, productive members of the community.

▸ **Physical Education** Courses

Physical Education 1			*Grade 9*
779A	**Physical Education 1**	**College & Career Prep**	**.5 Credit**

This class is designed to teach students the concepts of physical fitness and how to live a healthy and active lifestyle. Health-related fitness incorporates the areas of cardiovascular fitness, flexibility, muscular strength, muscular endurance, nutrition and other health related topics. Students will identify what a SMART Goal is, set a SMART fitness goal based upon their performance on the CT Physical Fitness Assessment and develop a plan to improve fitness. Students must develop lifelong habits of activity that insure daily moderate and vigorous exercise. Through this class, they will learn how to develop and utilize equipment in the weight room as well as body weight activities and basic movement concepts to ensure lifelong personal fitness.

Physical Education Courses [continued]

Physical Education 2			*Grades 10, 11, 12*
779B	**Physical Education 2**	**College & Career Prep**	**.5 Credit**

The students will learn a variety of rules, skills, fundamentals and strategies in a variety of individual and team sports. Safety and sportsmanship will be emphasized. We intend that students will have sufficient skills to enjoy participation in many activities and select a few they would want to pursue in adulthood. In keeping with this goal, the sport offerings in grades 10-12 offer opportunities for students to try a new sport and refine others. Activities include but are not limited to: badminton, tennis, track and field, golf, bowling, pickleball, flag football, ultimate frisbee, and softball/wiffle ball.

Physical Education: Adaptive PE			*Grades 9, 10, 11, 12*
777	**Physical Education: Adaptive PE**	**College & Career Prep**	**.5 Credit**

A specialized individual program is available to students who are unable to participate in the regular physical education program as directed in the student's individual educational plan. The class implements and monitors a carefully designed instructional program for a learner with a disability to acquire skills and sport experiences necessary to enhance physical fitness and wellness. This course uses student mentors to help create a safe and nurturing environment for the students. This is an excellent opportunity for upperclassmen to demonstrate their leadership skills. (Permission of instructor required)

Health Program

The goal of the Health Program is to provide students with the skills and health literacy necessary to make informed decisions. Students are encouraged to achieve optimal health through recognizing health issues and applying preventative strategies to promote optimal wellness. By connecting academic content to real-life scenarios, students understand the impact of personal choices and external factors on individual health and the overall health of the community.

Health Courses

Health and Wellness 1			*Grades 9, 10*
7339	**Health and Wellness 1**	**College & Career Prep**	**.5 Credit**

This comprehensive one-semester course is designed to enable students to take responsibility for their actions regarding health. Our curriculum stresses healthy choices and decision making to develop behaviors that promote healthy and balanced lifestyles. This course will focus on general content knowledge and understanding of the key concepts related to each of the content areas of focus. Instructional units include mental and social health, human growth and development, nutrition and fitness, violence prevention, suicide, safety and first aid and disease prevention. Substance abuse prevention is included.

Health and Wellness 2			*Grades 11, 12*
7333	**Health and Wellness 2**	**College & Career Prep**	**.5 Credit**

Prerequisite: Health and Wellness 1 This comprehensive one-semester course is designed to enable students to take responsibility for their actions regarding health. Our curriculum stresses healthy choices and decision making to develop behaviors that promote healthy and balanced lifestyles. This course will focus on the application of the key concepts learned in Health and Wellness 1 in a way that demonstrates mastery and the ability to connect this knowledge to real world situations. Students will be given the opportunity, through project based learning activities, to apply the learned skills necessary to weigh options, make responsible decisions and to develop behaviors that promote healthy and balanced lifestyles. Instructional units include mental and social health, human growth and development, nutrition and fitness, violence prevention, suicide, safety and first aid and disease prevention. Substance abuse prevention is included.

Junior ROTC Program

The Junior Reserve Officer Training Corps (JROTC) program is designed to teach high school students the value of citizenship, leadership, service to the community, responsibility and a sense of accomplishment, while instilling self-esteem, teamwork, and self-discipline. Its focus is to provide a stimulus for promoting graduation from high school, success in the community and promoting the mission statement "To motivate young people to be better citizens." To accomplish this goal, the course combines instruction and extracurricular activities oriented to attain an awareness of the rights, responsibilities and privileges of citizenship, developing the students' sense of personal responsibility, building life skills, and providing leadership opportunities. No JROTC student is under any obligation to join the military. **Personal Finance credit is attainable through full completion of the Junior ROTC Program (4 years}.**

Junior ROTC 1			*Grades 9, 10, 11, 12*
8R1	**Junior ROTC 1**	**College & Career Prep**	**1 Credit**

Junior ROTC 2			*Grades 10, 11, 12*
8R2	**Junior ROTC 2**	**College & Career Prep**	**1 Credit**

Junior ROTC 3			*Grades 11, 12*
8R3	**Junior ROTC 3**	**Honors**	**1 Credit**

Junior ROTC 4			*Grade 12*
8R4	**Junior ROTC 4**	**Honors**	**1 Credit**

Latinos In Action Program

The Latinos in Action (L.I.A.) course is designed to teach high school students the importance of community service, education, leadership, teamwork while deepening their understanding of the value in being bilingual, biliterate, and bicultural. The program empowers youth to lead and strengthen their communities through community service completed in partnership with local elementary schools. The course combines academic instruction and extracurricular activities to prepare students for college and career post-graduation. Students of any cultural/linguistic background are welcome. **Personal Finance credit is attainable through full completion of the Latinos in Action Program 1 & 2.**

Latinos in Action			*Grade 9*
8LIA1	**Latinos in Action**	**College & Career Prep**	**1 Credit**

Latinos in Action			*Grades 10, 11, 12*
8LIA2	**Latinos in Action**	**College & Career Prep**	**1 Credit**

Additional Programs

Students should meet with their guidance counselor for registration or additional information.

HPA Greater Hartford Academy of the Arts

The Greater Hartford Academy of the Arts (GHAA), a program of the Capitol Region Education Council, is an integrated magnet arts program that is open through CREC's lottery system, to high school students in the Greater Hartford area. Academy students attend New Britain High School in the morning and then attend the Academy from 1:00 pm to 4:15 pm, Monday through Thursday. Buses to transport students to GHAA depart NBHS at approximately 12:00 PM.

Students who attend GHAA need to be aware of two factors. First, students need to be aware that since GHAA does not operate on Fridays, students will not have any classes in the afternoon on those days at NBHS. Secondly, while participation in GHAA offers students the opportunity to engage in an intensive Fine Arts experience, GHAA does not offer many state-mandated graduation requirements. As a result, participation in GHAA places considerable constraints on the courses that students take at NBHS. It is imperative that families work closely with their NBHS school counselor, starting in the freshman year, to ensure they have a pathway to a four year graduation from high school.

Bristol Technical Education Center (BTEC)

Grades 11, 12. The programs at Bristol Technical Educational Center (BTEC) prepare students for entry level employment or for higher education through theoretical and hands-on experiences to serve the needs of business and industry. Students complete their academic and Physical Education requirement through their sending high school and the technology classes at BTEC. Applications are available at www.cttech.org/bristol. Student enrollment at BTEC earn a diploma from their local high school. BTEC also has a post-secondary program.

Goodwin University ECAMP

The Early College Advanced Manufacturing Pathway (ECAMP) at Goodwin University is a half-day, dual enrollment program for high school seniors who want to pursue careers in manufacturing. Students take seven college courses on the Goodwin University campus, covering topics like blueprint reading, manufacturing math, and lean manufacturing principles, and will earn 21 college credits upon completion. The program also focuses on critical thinking, science and technology literacy, and innovation. Students may be placed in a paid pre-apprenticeship during school hours that run at least two days per week for 2.5 hours per day. Students that are interested in this program should see the Academies Counselor.

Connecticut Department of Labor (DOL)

Ages 16 and over. The CT DOL oversees apprenticeship & pre-apprenticeship programs in the state in a number of industries such as electrical, plumbing, carpentry , HVAC, culinary, cosmetology and automotive. These positions are paid at least minimum wage and you can earn hours needed to be licensed in the designated field. You must be at least 16 years old to apply for a pre-apprenticeship, have good attendance, and at least a 2.0 GPA. Please see your school council for more information or visit NBHS's Career Center and for help to apply to the program.

NOTES

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