

NEW BRITAIN HIGH SCHOOL

PROGRAM OF STUDIES 2023-2024



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Consolidated School District Of New Britain

2023-2024

New Britain Board Of Education

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Mr. Joseph Listro, Secretary

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Dr. Ivelise Velazquez, Deputy Superintendent of Schools

Ms. Lara Bohlke, District Coordinator of Curriculum Grades 6-12

Mr. Tyrone Richardson, Academics and Accountability Officer Grades 6-12

High School Administration

Mr. Damon Pearce, High School Principal

Mr. Antoine Billy, Associate Principal

Mr. James Brasile, Associate Principal

Ms. Jessica Foligno, Supervisor of Special Education, Bridges Program

Mrs. Kerri-Lynn Major, Associate Principal

Mr. Steve Howey, Supervisor of Special Education

Ms. Margaret Shea, Associate Principal

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.

PROFILE OF A **NEW BRITAIN GRADUATE**

Empathy & Cross-Cultural Understanding

Critical & Creative Problem Solving

Initiative & Perseverance

Analyze & Construct Arguments Based on Evidence

Meaningful & Purposeful Communication

CONSOLIDATED SCHOOL DISTRICT OF NEW BRITAIN

New Britain High School Graduation Requirements

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

Graduating classes 2023 and beyond Requirement: 25 credits	
Course	Credits
Humanities 9 credits	English: 4 credits
	Social Studies: 3 credits U.S. History: 1 credit Civics: .5 credit
	Humanities Electives: 2 credits
STEM 9 credits	Math: 3 credits Algebra 1: 1 credit (3 Math credits must be completed while at NBHS)
	Science: 3 credits
	STEM Electives: 3 credits Personal Finance: .5 credit
WORLD LANGUAGE	1
Physical Education	1
Health	1
Other Electives	3
Career Connections Presentation*	1
TOTAL CREDITS:	25

***Career Connections Senior 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.

Due to pandemic, the Career Connections sessions for the classes of '24 will be modified.

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.

College Level Courses: You can receive high school and college credit for courses completed at several area colleges including Tunxis Community College, CCSU and other local colleges. Enrollment must be approved by the School Counseling Department/Administration prior to attending.

Independent Study: A student may apply for a credit (.5 to 1.) independent study program with a teacher/advisor. In order to participate, a student must find a teacher/advisor who will work with them to develop an activity they are undertaking in addition to all courses required and may not replace courses in the regular program. A pass/fail grade is awarded at the conclusion of the study. Approval is required by an administrator.

Middle School Credit: Students who successfully complete courses at the middle school and pass the high school level final exam, which are taught at the high school grade level (currently Algebra 1 and Spanish 1), may be awarded a full credit (one) per course and will be counted as elective credit(s) towards graduation. Algebra 1 will fill the Algebra 1 requirement for graduation but it will not count towards the three math credits which are needed to be completed while at NBHS.

On-line Coursework: Students can receive credit for courses completed online. Enrollment must be approved by the School Counseling Department, appropriate department head, and the high school administration prior to the start of the course.

Nonprofit Providers: Successful completion of a world language course offered privately through a nonprofit provider, such as Polish School, may be awarded credit(s) based on the appropriate proficiency level. Other programs offered by nonprofit providers such as TRIO, OIC, and YWCA provide for additional credit attainment but are subject to availability on a year to year basis.

Cooperative Work Learning: Students who satisfactorily complete a minimum of 60 hours of community service, internship, and/or working, may apply to be awarded one-half credit.

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.

College Admission:

Grades, difficulty of courses taken, counselors' and teachers' recommendations, activities (athletics, clubs, community service), and national standardized testing such as the SAT or ACT are the most important factors a college admissions office considers in determining student acceptance. Students are urged to meet with their school counselor and visit colleges with their parents in order to gain more detailed information. Success in a full, challenging academic program, including senior year, is the best preparation for college admission and eventual college success.

Course Levels: College Level, Honors, Accelerated, Standard

Course Level Codes:	
College Level (Adv Placement, Early College Experience, Dual Enrollment) Course Level Code: Last digit ends with "0"	These classes are for students who are capable of doing college level work and have met the necessary prerequisites. College level courses demand a large time commitment on the part of the students in and out of school. AP and dual enrollment courses are offered at this level. Students may receive college credit as well as high school credit.
Honors Level Course Level Code: Last digit ends with "1"	These college preparatory classes are available to academically talented students who desire to work in greater depth and breadth than is offered in Accelerated classes.
Accelerated Level Course Level Code: Last digit ends with "2", "4", "6", or "8"	These college preparatory classes are offered for students Who plan to attend college, technical school, or seek employment, and who want to work at a more challenging pace than the Standard level.
Standard Level Course Level Code: Last digit ends with "3", "5", "7", or "9"	These classes are appropriate for students who aspire to attend college, technical school, or seek employment, but who might need additional support in literacy and math skills.

Course Selection

After the second semester begins, students will receive teacher recommendations in PowerSchool. Parents and students are asked to discuss course selections and recommendations together. Students will enter course selections into PowerSchool. In the second semester, students will have an opportunity to meet with counselors to make sure appropriate courses were chosen to ensure alignment for graduation and student needs. Students in any of the NBHS Academies will also 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 will be offered subject to budgetary considerations, enrollment, and scheduling factors. Certain courses might not be offered if the number of students selecting them is too low. Some courses are offered alternate years.

Course/Level Override

New Britain High School supports students interested in further challenging themselves in their academic pursuits. While teachers will recommend students for particular courses, students may choose to enroll in a course other than the recommended course with the use of a New Britain High School override application. Override applications can be found in the school counseling office. All overrides will be reviewed by the department heads/AP's.

- Override applications will be due to the student's counselor no later than May 15th.
- Course enrollment is done according to availability of space in the course requested.

Schedule Changes: Add/Drops

Students may not drop courses once the semester has begun unless the drop is approved by either the principal or Administrator/Department Chair. Counselors are available two weeks prior to the first day of classes to assist with schedule changes. Students can add/drop a class in the first five days of each semester. Changes are made to correct errors/omissions and to adjust for failed prerequisites or summer school completions. Course changes will not be honored after the fifth school day, with the exception of course level changes.

Level Changes

A teacher or student may request a student to be placed in a different level course after the start of the school year if it is determined the current level is inappropriate. If the level change is initiated by the teacher, the teacher will contact the student's parent to discuss the change in level and the teacher will submit a Level Change Form to the student's school counselor. If the level change is initiated by a student they should first meet with their teacher to discuss the level change and then see their school counselor to get the Level Change Form. The student's school counselor will initiate the Level Change Form. The last day for a student to change a course level for full year and semester 1 classes will be ten school days after Quarter 1 reports cards are distributed. The last day to change a course level for semester 2 courses will be ten school days after quarter 3 report cards are distributed.

Course Audit Guidelines

Please see a school counselor for details on how to audit a course at New Britain High School.

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.

GRADE PLACEMENT & PROMOTION	
Credits required to advance from:	Number of credits required:
9th to 10th	6 CREDITS
10th to 11th	12 CREDITS
11th to 12th	17 CREDITS

GPA Weighted/Unweighted

- An unweighted GPA on a 4 point scale will be listed on the student's transcripts. A=4.0, B=3.0, C=2.0, D=1.0
- A weighted GPA is used only to determine class rank. More points are given for higher level classes taken. Details regarding weighted GPA are found in the New Britain High School Student Handbook.
- Pass/Fail courses are not computed in GPA and neither are courses taken in college.

Rank In Class

Many colleges request a student's standing or rank in the graduating class. Some scholarships are awarded according to class rank based upon student performance during the first three years. Class rank will be determined at the end of each semester beginning freshman year. New transfer students must attend New Britain High 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 Handbook.

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	
<u>Division I – 16 Core-Courses</u>	
<ul style="list-style-type: none"> • 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 	<ul style="list-style-type: none"> • 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

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.

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.

Advanced Placement Courses

New Britain High School offers many Advanced Placement Courses. Students have the opportunity to prepare for the AP exam and potentially receive college credit. AP courses can be dropped after first quarter grade reports, provided the student has given his/her best effort, and the teacher can attest to that effort. Students must meet with the AP Committee and have met the above criteria in order to drop from an AP course.

The Advancement Placement Exam Policy is as follows:





- Students are highly 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.

University Of Connecticut Early College Experience Courses (ECE)

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 highly encouraged to take the AP exam. There is a per-credit fee for students who are not eligible for free/reduced lunch.

College Level/ Dual Enrollment Courses Offered at NBHS

<u>Advanced Placement (AP)</u>	<u>UConn Early College Experience (ECE)</u>	<u>Dual Enrollment</u>
<p>AP/ECE English Language</p> <p>AP Literature</p> <p>AP Macroeconomics</p> <p>AP Psychology</p> <p>AP US Government and Politics</p> <p>AP US History</p> <p>AP/ECE World History</p> <p>AP Spanish</p> <p>AP Statistics</p> <p>AP Calculus AB</p> <p>AP Computer Science Principles</p> <p>AP Computer Science A</p> <p>AP Biology</p> <p>AP Music Theory</p> <p>AP Studio Art</p>	<p>AP/ECE English Language</p> <p>AP/ECE World History</p> <p>AP/ECE Music Theory</p> <p>ECE If You Love It, Teach It!</p> <p>ECE French IV</p> <p>ECE Spanish IV</p> <p>ECE Chemistry</p> <p>ECE Physics</p> <p>ECE Environmental Science</p> <p>ECE Probability and Statistics</p> <p>ECE Medical Terminology</p> <p>ECE Intro to Allied Health</p>	<p>Financial Accounting- Tunxis</p> <p>Basic Accounting</p> <p>Education in Multicultural Society</p> <p>Child Development 2</p> <p>Intro to Business</p> <p>Probability & Statistics</p>

ICON KEY FOR CLASS DESCRIPTIONS	
 <p>CTE STEM</p>	 <p>HUMANITIES</p>
 <p>NCAA APPROVED</p>	 <p>NAF</p>

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.

<p>Grade 9:</p> <p>191 English 1 – Honors</p> <p>192 English 1 – Accelerated</p> <p>193 English 1 – Standard</p>	<p>Grade 10:</p> <p>141 English 2 – Honors/Pre-AP</p> <p>146 English 2 – Accelerated</p> <p>143 English 2 – Standard</p>
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<p>Grade 11:</p> <p>171 English 3 – Honors</p> <p>172 English 3 – Accelerated</p> <p>173 English 3 – Standard</p> <p>150 AP/ECE English Language - College</p>	<p>Grade 12:</p> <p>111 English 4 – Honors</p> <p>114 English 4 – Accelerated</p> <p>115 English 4 – Standard</p> <p>142 Introduction to College English – Accelerated</p> <p>170 AP English Literature – College</p>
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Grades 11 and 12 Electives	
166 /167	Psychology in Literature
174/175	Silenced Voices
182	Public Speaking
186	Creative Writing

Grade 9 English

<p>English One  </p>			
191	English One	Honors	1 Credit
192	English One	Accelerated	1 Credit
193	English One	Standard	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



141	English Two	Honors	1 Credit
146	English Two	Accelerated	1 Credit
143	English Two	Standard	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.

Grade 11 English

English Three



171	English Three	Honors	1 Credit
172	English Three	Accelerated	1 Credit
173	English Three	Standard	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.



150 AP/ECE English Language

College

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



111	English Four	Honors	1 Credit
114	English Four	Accelerated	1 Credit
115	English Four	Standard	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.

170 AP English Literature



College

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.



142 Introduction To College English

Accelerated

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 TCC and CCSU. There will be NO exemptions for the final exam.

Grades 11 & 12 English Electives

166 Psychology in Literature



167 Psychology in Literature

**Accelerated
Standard**

**½ Credit
½ Credit**

Grades 11 and 12

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.

174 Silenced Voices



175 Silenced Voices

**Accelerated
Standard**

**½ Credit
½ Credit**

Grades 11 and 12

Through research and analysis of challenged and banned books, students will explore the ethical, legal, and cultural implications of censorship. Writing experiences will emphasize modes required in college such as argumentative and expository essays as well as research.

182 Public Speaking



Accelerated →

½ Credit

Grades 11 and 12

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.

186 Creative Writing



Accelerated

½ Credit

Grades 11 and 12

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.

ESL Department

The English as a Second Language Program 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.

102 ESL 1 Grammar And Writing



Accelerated

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.

103 ESL 1 Reading



Standard

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.

104 ESL 2 Grammar and Writing



Accelerated

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.

105 ESL 2 Reading



Standard

1 Credit

This is the second level of reading in the ESL program. The reading component 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.

106 ESL 3 Grammar and Writing



Accelerated

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.

107 ESL 3 Reading



Standard

1 Credit

This is the intermediate level of writing and reading in the ESL program 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.



108 ESL 4 Grammar And Writing

Accelerated

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 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.



109 ESL 4 Reading

Standard

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.



144 ESL Academic Writing College Prep

Accelerated

1 Credit

Students in this course study advanced aspects of English language structure and writing with a focus on high level grammar elements that students encounter in expository school texts. The link between English grammar and reading comprehension is emphasized as is the nature and grammatical structure of academic writing. This is a stand-alone course that is usually taken simultaneously with grade-level language arts and other content area courses. 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. This course is designed to prepare students to take the TOEFL assessment required by four year institutions and ESL placement test at community colleges. Upon completion of 144, students will be ready for the academic rigor of college courses by developing the following essential skills: self-advocacy, critical & creative thinking, as well as information, technology, and resource literacy; preparing them 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.

Recommended Pathways

College/Honors	Accelerated/Standard
Grade 9 U.S. History (honors) AP U.S. History	Grade 9 U.S. History
Grade 10 AP U.S. History World History (honors) AP/ECE World History	Grade 10 World History
Grades 11 and/or 12 AP U.S. Government & Politics AP Psychology AP Macroeconomics	Grades 11 and/or 12 African-American History Civics Contemporary Issues Economics Latinx American History New Britain: A Snapshot of America Psychology Sociology

Grade 9

United States History  			
231F	United States History	Honors	1 Credit
232F	United States History	Accelerated	1 Credit
232SH	Sheltered United States History (<i>not NCAA eligible</i>)	Accelerated	1 Credit
233F	United States History	Standard	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.

Grades 10, 11, and 12 Social Studies

*require prior AP experience or teacher recommendation

**open to 11th and 12th graders only; any exceptions must be approved by department head

Full Year Courses (1 Credit)	Semester Courses (½ credit)
U.S. History (multiple levels)(230*, 232SH, 233) World History (multiple levels)(210*, 211, 212, 212SH, 213) 220* AP Psychology 242 African American/Black and Puerto Rican/Latino Studies 250* AP Macroeconomics 270** AP U.S. Government and Politics	218 Psychology 228 Sociology 236 <i>New Britain: A Snapshot of America (proposed; pending BOE approval)</i> 244 Latinx American History 246 African-American History 248 Contemporary Issues 252 Economics Civics** (multiple levels)(271, 272, 272SH, 273)

210 AP/ECE World History



College

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.

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 credits.

World History *(multiple levels available)*



211 World History

Honors

1 Credit

212 World History

Accelerated

1 Credit

212SH-Sheltered World History *(not NCAA eligible)*

Accelerated

1 Credit

213 World History

Standard

1 Credit

In World History, students will consider the course question: *What is power?* Each chrono-thematic unit of study will provide students with opportunities to analyze and construct an argument in response to the question. The units focus on modern World History (20th and 21st century) and require students to examine themes such as resources, conflict, genocide, globalization, and human rights through case studies. As students study these themes, they will develop the Portrait of a Graduate skills by working collaboratively with the peers and utilizing technology strategically and effectively to learn from the past and take action in the present.

218 Psychology



Accelerated

½ Credit

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.

**220 AP Psychology****College****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.

**228 Sociology****Accelerated****½ Credit**

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.

**230 AP United States History (APUSH)****College****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.

**United States History** *(multiple levels available)***232SH→Sheltered United States History** *(not NCAA eligible)***Accelerated****1 Credit****233 United States History****Standard****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.

**236 New Britain: A Snapshot of America****Accelerated****½ Credit**

(proposed pending BOE approval) (This course meets ½ of the U.S. History credit requirement.)

In this semester course, students will learn about New Britain's contributions to America's story.

**242 African Am/Black & Puerto Rican/Latino Studies****Accelerated****1 Credit**

(SCED Course Code 04901) (This course meets the U.S. History credit requirement.)

The full-year course, developed by SERC, 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.

244 Latinx American History  **Accelerated** **½ Credit**
(This course meets ½ of the U.S. History credit requirement.)

In Latinx American History, students will consider the course essential question: *What do Puerto Rican and Latino(a) histories 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 Latinx achievements and contributions to American culture. Note: Coursework aligns with the second-half of the SERC-developed course (242).

246 African-American History  **Accelerated** **½ Credit**
(This course meets ½ of the U.S. history credit requirement.)

Students will analyze the role of African-Americans in the history of the United States. Special emphasis is aimed at African-American achievements and contributions to American culture. Students will investigate important political, economic, and social events from the African-American perspective.

248 Contemporary Issues  **Accelerated** **½Credit**

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.

250 AP Macroeconomics   **College** **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.

252 Economics   **Accelerated** **½ Credit**

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.

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

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. **(11th and 12th graders only)**

Civics** (multiple levels available) **(11th and 12th graders only)** 

271 Civics		Honors	½ Credit
272 Civics		Accelerated	½ Credit
272SH→Sheltered Civics	(not NCAA eligible)	Accelerated	½ Credit
273 Civics		Standard	½ 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.

World Languages Department

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

1. effective communication skills.
2. an understanding and appreciation of cultural differences and similarities.
3. to increase students' sense of global awareness.
4. effective reading and writing skills.
5. a greater understanding of the English language.

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 State of Connecticut. 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.

312 French 1



Accelerated

1 Credit

Grades 9 - 12

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.

314 French 2



Accelerated

1 Credit

Grades 10 - 12 **Prerequisite: French 1**

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.

316 French 3



Accelerated

1 Credit

Grades 11, 12 **Prerequisite: French 2**

Emphasis will be placed on students' ability to relate ideas, feelings and opinions on current events and world issues. Students will expand their knowledge of cultures throughout the Francophone world.

311 ECE French 4



College

1 Credit

Grade 12 **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.

322 Spanish 1



Accelerated

1 Credit

Grades 9 - 12 (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.

324 Spanish 2



Accelerated

1 Credit

Grades 9 - 12 (Not open to native speakers) **Prerequisite: Spanish 1 or proficiency exam**

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.

**326 Spanish 3****Accelerated****1 Credit***Grades 9 - 12* **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.

**321 ECE Spanish 4****College****1 Credit***Grades 10, 11, 12* **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.

**320 AP Spanish Language****College****1 Credit***Grades 10, 11, 12* **Prerequisite: Spanish 3, Spanish 4 or Spanish for Spanish Speakers**

This course follows the core curriculum determined by the College Board. It is designed to give students the equivalent of the third year college course in advanced composition and conversation. Students will receive intense practice in comprehending formal and informal spoken Spanish, composing expository passages, and expressing ideas orally with accuracy and fluency. Reading selections come from Spanish literature. A major objective of this course is to prepare students for the rigorous AP examination that will be administered in the spring.

**328 Spanish for Heritage Speakers****Accelerated****1 Credit***Grades 9 - 12* **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.

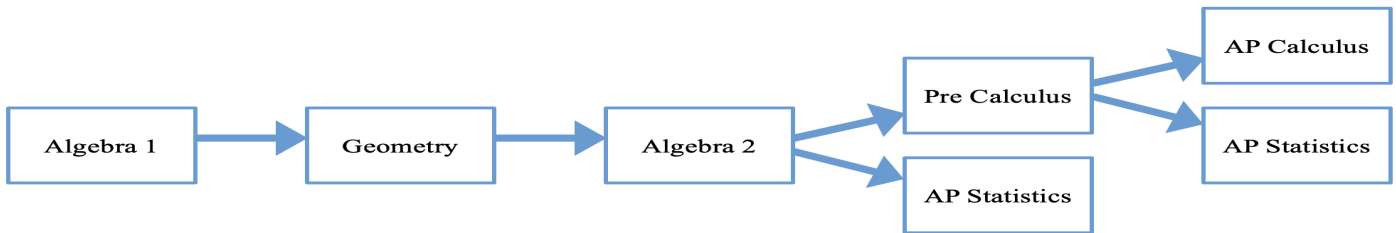
**332 Spanish for Spanish Speakers****Accelerated****1 Credit***Grades 9 - 12* **Prerequisite: Spanish for Heritage Speakers or placement interview**

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.

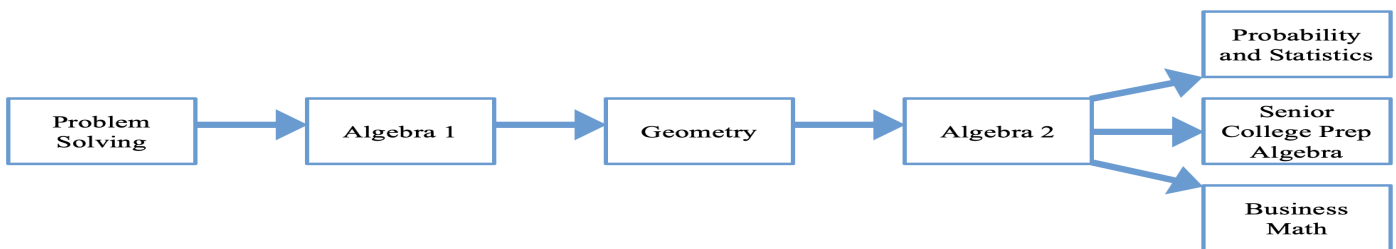
Mathematics Department

The mathematics 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 college bound students take four years of mathematics in a sequence that includes at least Algebra 1, Geometry, and Algebra 2 or Statistics.

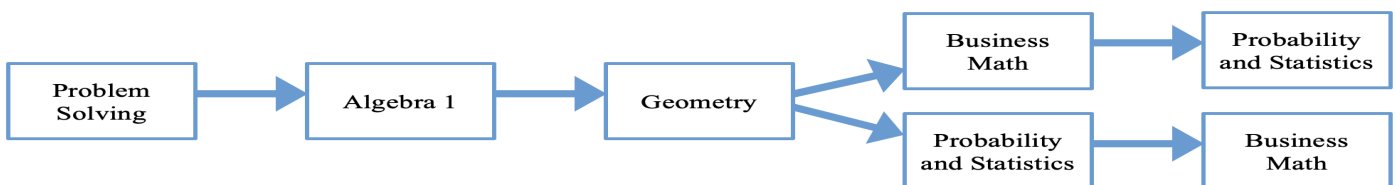
Traditional College Pathway



Alternate College Pathway




Career Pathway







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.


405 Problem Solving  **Standard** **1 Credit**
Grades 9
 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. The course can be taken in tandem with Algebra 1 or as a stand alone course.



420 AP Statistics   **College** **1 Credit**
Grades 11, 12 **Prerequisite: C- or better in 461 or teacher recommendation**
 AP Statistics is an introductory college-level statistics course that introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students cultivate their understanding of statistics using technology, investigations, problem solving, and writing as they explore concepts like variation and distribution; patterns and uncertainty; and data-based predictions, decisions, and conclusions.

421 ECE Probability and Statistics   **Honors** **1 Credit**
Grades 11, 12 **Prerequisite: C- or better in 461 or teacher recommendation**
 This course consists of six major units: Descriptive Statistics, Scatterplots and Linear Regression, Planning A Study, Probability, Sampling Distributions, and Statistical Inference. 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.”

422 Probability and Statistics   **Accelerated** **1 Credit**
Grades 11, 12 **Prerequisite: Earned credit in Algebra 2**
 This course deals with the fundamental concepts involved in collecting, analyzing, and presenting data. Classical probability involving cards, dice, and coins will be explored. Descriptive statistics such as mean, mode, median, range, and standard deviation will be analyzed using authentic and relevant data.

429 Probability and Statistics   **Standard** **1 Credit**
Grades 11, 12 **Prerequisite: Earned credit in Algebra 1, 2 math credits**
 This course will focus on applicational techniques of statistics. Concepts covered will include probability, descriptive statistics (measures of central tendency and measures of spread) and scatter plots focusing on correlation and trends.

427 Business Mathematics  **Standard** **1 Credit**
Grades 12 **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.**

431	Algebra 1			Honors	1 Credit
433	Algebra 1			Standard	1 Credit
434	Algebra 1			Accelerated	1 Credit
434SH	Sheltered Algebra 1 <i>(not NCAA eligible)</i>			Accelerated	1 Credit

Grades 9-11

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.

433MA	Algebra 1/ Geometry			Standard	2 Credits
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Grade 11,12

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.

440	AP Computer Science Principles			College	1 Credit
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Grades 10, 11, 12 **Prerequisite: C- or better in 431. STEM or elective credit only**
(pending BOE approval)

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.

451	Geometry			Honors	1 Credit
452	Geometry			Accelerated	1 Credit
452SH	Sheltered Geometry <i>(not NCAA eligible)</i>			Accelerated	1 Credit
453	Geometry			Standard	1 Credit

Grades 9-11 **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. **Prerequisite: Earned credit in Algebra 1**

461	Algebra 2			Honors	1 Credit
462	Algebra 2			Accelerated	1 Credit
462SH	Sheltered Algebra 2 <i>(not NCAA eligible)</i>			Accelerated	1 Credit
463	Algebra 2			Standard	1 Credit

Grades 10-12 **Prerequisite: Earned 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.

**465 Senior College Preparatory Algebra****Standard****1 Credit****Grades 12 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.

**471 Pre-Calculus****Honors****1 Credit****Grades 11, 12 Prerequisite: C- or better in 461**

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.

**472 Algebra 3****Accelerated****1 Credit****Grades 11, 12 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.

**480 AP Calculus AB****College****1 Credit****Grades 11, 12 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.

**490 AP Computer Science A****College****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.

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. For the graduating class of 2023 and beyond students are required to take any 3 science credits.



Grade 9 Earth Space Science

591	Earth Space Science - Honors
592	Earth Space Science - Accelerated
592SH	Sheltered Earth Space Science - Accelerated <i>not NCAA eligible</i>
593	Earth Space Science - Standard



Grade 10 Biology

520	Biology - AP
521	Biology - Honors
522	Biology - Accelerated
522SH	Sheltered Biology - Accelerated <i>not NCAA eligible</i>
535	Biology - Standard



Grade 9-12 Electives:

507	SEPUP Science – Standard <i>not NCAA eligible</i>	533	Botany – Standard
518	Astronomy- Accelerated	587	Zoology – Standard
524	Forensic Science – Accelerated		



Grade 11/12 Electives:

510	EnvironmentalScience – UCONN ECE	543	Chemistry and the Community – Standard
540	Chemistry – UCONN ECE	560	Physics – UCONN ECE
541	Pre-ECE Chemistry – Honors	561	Physics – Honors
542	Chemistry – Accelerated	562	Physics – Accelerated
543SH	Sheltered Chemistry and the Community - Standard <i>Not NCAA eligible</i>	563	Physics – Standard

Grade 9 Science

591	Earth Space Science			Honors	1 Credit
592	Earth Space Science			Accelerated	1 Credit
592SH	Sheltered Earth Space Science			Accelerated	1 Credit
593	Earth Space Science			Standard	1 Credit

This course focuses on the following core ideas: Earth's place in the universe (describing the universe as a whole and addressing its grand continual evolution) and Earth and human activity (addressing society's interactions with the planet).




Grade 10 Science

520	AP Biology			College	1.5 Credits
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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

521	Biology			Honors	1 Credit
522SH	Sheltered Biology			Accelerated	1 Credit
522	Biology			Accelerated	1 Credit
535	Biology			Standard	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.



Grades 9-12 Electives

507	Sepup Science			Standard	1 Credit
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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.



518	Astronomy			Accelerated	½ Credit
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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.




524	Forensic Science			Accelerated	½ Credit
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Prerequisite: Algebra 1, Biology (or concurrently taking)

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.



533	Botany			Standard	½ Credit
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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.

587 Zoology**Standard****½ 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.

Grades 11/12 Electives**510 ECE Environmental Science****College****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.

540 ECE Chemistry**College****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**).

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

Prerequisite: Algebra 1; strong math background recommended.

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.

542 Chemistry**Accelerated****1 Credit**

Prerequisite: Algebra 1

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.

543 Chemistry And The Community**Standard****1 Credit****543SH Sheltered Chemistry And The Community****Standard****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.

5411 Laboratory Assistant**Honors****½ Credit****Prerequisite: Chemistry or taking Chemistry concurrently. Permission of Science Dept. Head required.**

Meets half a block and the remaining half is study. This course teaches students advanced techniques for working in a laboratory. Students will learn skills such as solution preparation, sample preparation, and organization of both lab equipment and supplies. Students may be required to assist during lab demonstrations and/or lab classes.

560 ECE Physics**College****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**).

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.

562 Physics**Accelerated****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.

563 Physics**Standard****1 Credit**

This is an introductory course where physics is treated conceptually more than algebraically. Physics concepts are learned and taught using logic and reasoning more than equations. This course is a path for continued studies in physical science without an emphasis on computations. Topics covered include mechanics, waves, sound, electricity and light.

Career And Technical Education Department

Career and Technical Education consists of all courses listed under Academy of Business & Finance (AOBF), Family/Consumer Sciences Program, Academy of Public Services Program, Technology Education, Certified Nursing Assistant, and STEM courses. Also, many of our courses are offered through the National Academy Foundation (NAF).

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.

The Academy of Business and Finance (ABF)

Students who wish to pursue a career in business should consider The Academy of Business and Finance at NBHS. The Academy of Business and 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 two pathways within the academy. Each pathway includes recommended courses to better focus a student's experience toward a career of interest. The recommended pathways are included below.

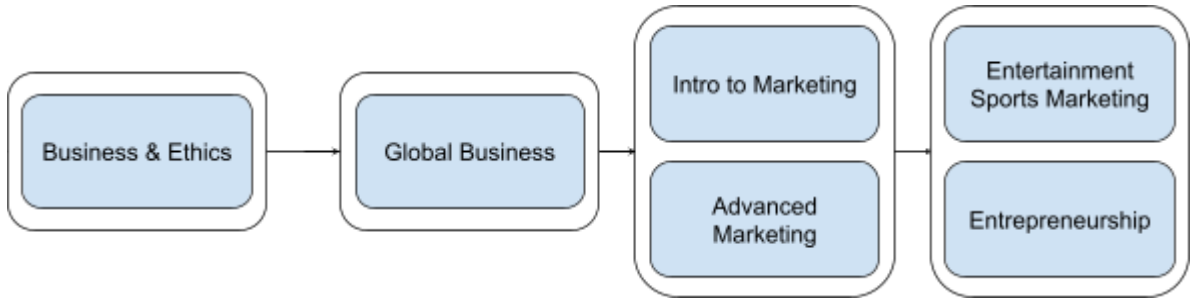
Students also participate in many varied work-based learning experiences including college open house business days, workshops such as Personal Banking, HRA/VITA training, various job shadows, mock interviews, a career fair, and college visits. Internship opportunities in the Finance, Marketing, and Management pathways are also available. Additionally, college articulation or dual credit are available through Tunxis Community College which can be transferred to the state colleges as well as some other universities. The Academy of Finance also offers NAFTrack certification, a great distinction recognized by many colleges and companies..

Business Pathways At A Glance

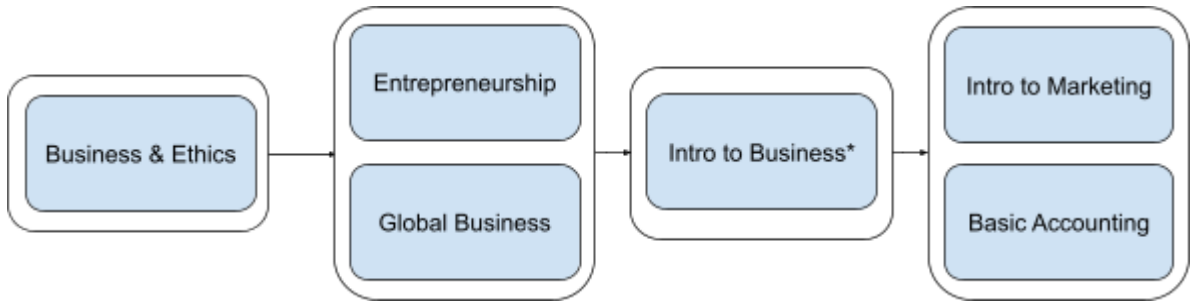
* indicates college credits

Career Pathway	Course(s)	Course(s)	Course(s)	Course(s)	Other Courses
Marketing Pathway	- Business & Ethics 615 (1 cr) - IT Fundamentals 618 (.5 cr) - Microsoft Excel 658 (.5 cr)	- Intro to Marketing 682 (1 cr) - Global Business 642 (.5 cr)	- Intro to Marketing 682 (1 cr) - Advanced Marketing 684 (1 cr) (School Store)	- Entertainment/ Sports Marketing 608 (.5 cr) - Entrepreneurship 688 (.5 cr)	- AP Macro 250 (1 cr) - Economics 252 (.5 cr) - AP Stats 420 (1 cr) - AP Comp Sci 490 (1 cr) - Any other business pathway course
Management	- Business & Ethics 615 (1 cr) - IT Fundamentals 618 (.5 cr) - Microsoft Excel 658 (.5 cr)	- Entrepreneurship 688 (.5 cr) - Global Business 642 (.5 cr)	Introduction to Business* 611 (1 cr)	- Intro to Marketing 682 (1 cr) - Basic Accounting 631 (1 cr)	- AP Macro 250 (1 cr) - Economics 252(.5 cr) - AP Stats 420 (1 cr) - AP Comp Sci 490 (1 cr) - Any other business pathway course
Accounting & Finance	- Business & Ethics 615 (1 cr) - Personal Finance 638 (.5 cr) - IT Fundamentals 618 (.5 cr) - Microsoft Excel 658 (.5 cr)	- Finance Principles 641 (.5 cr) - Entrepreneurship 688 (.5 cr)	- Applied Finance 671 (.5 cr) - Basic Accounting* 631 (1 cr)	- Financial Accounting 628 (1 cr)	- AP Macro 250 (1 cr) - Economics 252 (.5 cr) - AP Stats 420 (1 cr) - AP Comp Sci 490 (1 cr) - Any other business pathway course
Computer Science	- IT Fundamentals 618 (.5 cr) - Mobile Apps 622 (.5 cr)	- Exploring Computer Science 651 (1 cr)	- AP Computer Science 490 (1 cr) OR - Mobile Computer Science Principles 661 (1 cr)	- AP Computer Science 490 (1 cr) OR - Mobile Computer Science Principles 661 (1 cr)	- Microsoft Excel 658 (.5 cr) - Entrepreneurship 688 (.5 cr) - Any other business pathway course

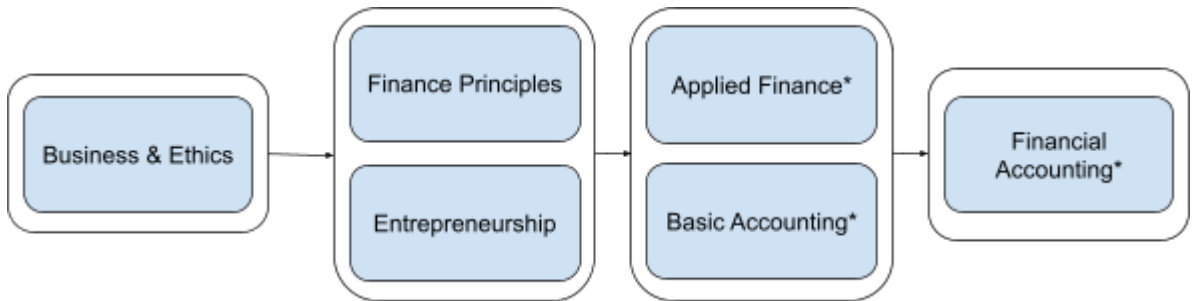
Academy of Business & Finance: Marketing Pathway



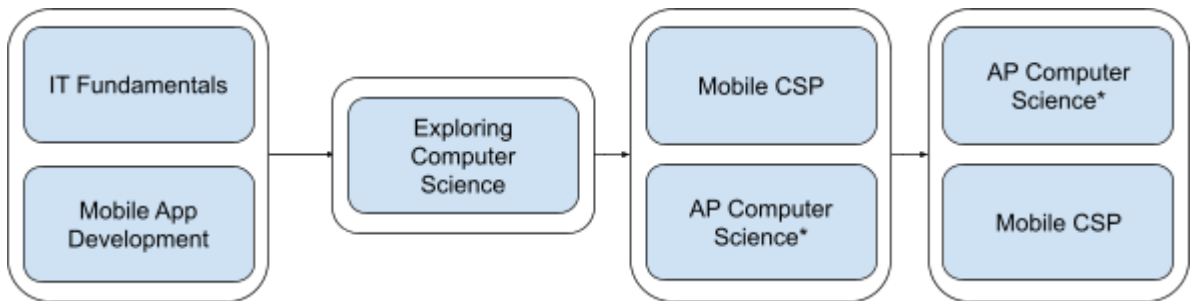
Academy of Business & Finance: Management Pathway



Academy of Business & Finance: Accounting & Finance Pathway



Academy of Business & Finance: Computer Science Pathway




Student Enrichment	Graduation Distinguishment, NAFTrack Certification, college credits, dedicated academy counselor, dedicated Work Based Learning (WBL) counselors, FBLA membership, career and college enrichment Field trips, Introduction to DECA, mock interviews, and career internships
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608 Entertainment Sports Marketing   **Accelerated** **½ Credit**

Grades: 10, 11, 12 Prerequisite: 682

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.

611 Introduction to Business   **Honors** **1 Credit**

Grades: 10, 11, 12

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.

615 Business & Ethics   **Accelerated** **1 Credit**

Grades: 9, 10, 11, 12

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.

618 IT Fundamentals   **Accelerated** **½ Credit**

Grades: 9, 10, 11, 12

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.

622 Mobile App Development   **Accelerated** **½ Credit**

Grade 9, 10, 11, 12

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.

628 Financial Accounting   **Accelerated** **1 Credit**

Grades 11, 12 Prerequisite: 631

CT State Colleges and Universities Credit (3 credits) Pending

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.

631 Basic Accounting**Honors****1 Credit***Grades 10, 11, 12***Prerequisite: 615 or 636****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). Students will be trained to become a basic tax preparer.

638 Personal Finance**Accelerated****½ Credit***Grades: 9, 10 11, 12***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.

641 Finance Principles**Honors****½ Credit***Grades: 10, 11, 12***CT State Colleges and Universities Credit (3 credits) Pending**

Students study income and wealth; examine financial institutions; learn how businesses raise capital; and study key investment-related concepts. They also research how innovations have changed the financial services field. Students explore careers in finance to further understand the education and training needed to achieve a job in the field. This course fulfills graduation requirements for Personal Finance (.5 credit).

642 Global Business**Accelerated****½ Credit***Grades: 10, 11, 12*

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.

651 Exploring Computer Science/ECS**Honors****1 Credit***Grade 10, 11, 12***Prerequisite: At least one of the following: IT Fundamentals (618), Mobile Apps (622), Website Design (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.

658 Microsoft Excel (MS Suite)**Accelerated****½ Credit***Grades 9, 10, 11, 12*

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.

661 Mobile Computer Science Principles**Honors****1 Credit***Grades 10, 11, 12***Prerequisite: Exploring Computer Science**

This course provides an introduction to basic principles of computer science (CS), including programming in App Inventor, a graphical programming language for Android mobile devices. This is a projects-based course. Students will learn CS principles by building socially useful mobile apps and reflecting on the impacts of their work. This course involves a strong writing component. Students will maintain a portfolio of their work, which will include several performance tasks in the areas of programming, data analysis, and the impact of computing technology.

671 Applied Finance**Honors****½ Credit***Grades 10, 11, 12***Prerequisite: 638 or 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.

682 Intro to Marketing**Accelerated****1 Credit***Grades: 9, 10, 11, 12***Prerequisite: 615, 641 or teacher recommendation**

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.

684 Advanced Marketing (School Store)**Accelerated****1 Credit***Grades 10,11, 12***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.

688 Entrepreneurship**Accelerated****½ Credit***Grades 10, 11, 12***Prerequisite: 615, 641 or teacher recommendation**

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.

699 Cooperative Work Experience**Standard****1 Credit***Students of Working Age***Approval of Work-based Learning Coordinator**

This course develops entry level job skills for those students who have entered the world of work and will continue when they finish high school or continue in their career preparation. Students who successfully complete a minimum of 60 hours of work will receive 0.5 credits and 120 hours will receive the maximum of 1 credit.

Hospitality And Tourism Pathway At A Glance

Hospitality & Tourism with Culinary Arts exposes learners to the essential components of the industry. Skills that will be taught include foundational principles, customer service, event planning, marketing, and preparing food items and dishes for consumption at home or in a professional work setting.

Course 1: 713-Introduction to Culinary

Course 2: 724- Prostart Culinary Arts 1

Course 3: 728- Prostart Culinary Arts 2

Course 4 : TBD with instructor and Academy Counselor

Career Pathway(s)	Course(s)	Course(s)	Course(s)	Course(s)	Other Courses
Hospitality & Tourism Pathway	Introduction To Culinary Arts 713 (.5 cr) Intro to Business/Ethics 615 (1 cr) IT Fundamentals 618 (.5 cr)	ProStart Culinary Arts 1 - 724 (1 cr)	Prostart Culinary Arts 2 - 728 (1 cr)	Entrepreneurship 688 (.5 cr) Intro to Marketing 682 (1 cr) Entertainment Sports Marketing 608 (.5 cr) Intro to Business Tunxis 611 (1 cr)	Advanced Marketing 684 (1 cr)*
Student Enrichment	Graduation Distinguishment, college credits, dedicated academy counselor, dedicated Work Based Learning (WBL) counselors, career and college enrichment field trips, mock interviews, and career internships				

* With teacher recommendation

Academy of Business & Finance: Hospitality & Tourism Pathway

713 Introduction To Culinary Arts



Standard

1/2 Credit

Grades 9, 10, 11, 12

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.

724 Prostart Culinary Arts 1



Accelerated

1 Credit

Grades 10, 11, 12

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.

728 Prostart Culinary Arts 2**Accelerated****1 Credits***Grades 11, 12***Prerequisite: ProStart 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.

Family/Consumer Sciences Program

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.

Academy Of Public Service












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.

Public Service Pathways At A Glance

Career Pathway	Course(s)	Course(s)	Course(s)	Course(s)
<u>Pathway 1:</u> <u>Early Childhood Education</u>	Education and Human Services 746 - .5 credit	Child Development I 748 (CD1)* - 1 credit	- Child Development 2 752 (Early Childhood Education) (CD2)* Articulated with Tunxis - 1 credit, AND - Educators Rising 751 (Honors) .5 credit - Education in a Multicultural Society 761 - .5 credit (3 college credits) CCSU	Elementary Assistant Program 742 - 1 credit Or Preschool Teacher Assistant 754 - 1 credit
<u>Pathway 2: – Secondary Education</u>	Education and Human Services 746 - .5 credit	Child Development 1 748 - 1 credit	- Educators Rising 751 (Honors) .5 credit - Education in a Multicultural Society 761 - .5 credit (3 college credits) CCSU	“If You Love It, Teach It” 730--Uconn ECE - 1 credit (3 college credits)
Student Enrichment	<ul style="list-style-type: none"> ● In-school field trips ● College Visits ● Annual kickstart conference ● Public Service-guest speakers ● Field experience in elementary schools (goal is 10 hours) 	<ul style="list-style-type: none"> ● Introduction to Little Canes <ul style="list-style-type: none"> ○ Lesson Planning ○ Interactions with kids ○ Special events (field day, holidays, picture day, etc. ● “Egg Baby” Childcare project ● Childhood Illness Research Project ● Opportunities to complete artistic projects in classrooms and preschool. 	<ul style="list-style-type: none"> ● Panel discussions including current faculty, alumni, community partners ● College Credits ● College visits ● RealityWorks “Robot” Baby Project ● Little Canes Field Experience <ul style="list-style-type: none"> ○ The art of the “Read Aloud” 	<ul style="list-style-type: none"> ● Education Capstone: E-Portfolio ● Field work in neighborhood schools ● Passion inventory

- ❖ **Pathway 1 (Early Childhood/Elementary Education)**- recommended for students interested in a career in Elementary Education *requiring 4 or more years* of education after high school.
- ❖ **Pathway 2 (Secondary Education)**- recommended for students interested in a career teaching Secondary Education that requires *4 or more years* of education after high school.

746 Education And Human Services			Accelerated	1/2 Credit
<i>Grades 9, 10, 11, 12</i>				
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.				
748 Child Development 1			Accelerated	1 Credit
<i>Grades 10, 11, 12</i>				
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.				
731 Child Development 2			Honors	1 Credit
<i>Grades 11, 12</i>				
Prerequisite: Child Development 1				
CT Community College 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.				
751 Educators Rising			Honors	1/2 Credit
<i>Grades 11, 12</i>				
Rising Educators 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.				
761 Education In A Multicultural Society			Honors	1/2 Credit
<i>Grades 11, 12</i>				
CCSU 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.				
730 ECE If You Love It, Teach It!			College	1 Credit
<i>Grades 11, 12</i>				
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.				

754 **Preschool Teacher Assistant**   **Accelerated** **1 credit**
Grade 12

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.

742 **Elementary Assistant Program**   **Accelerated** **1 Credit**
Grade 11, 12

Prerequisite: Child Development 1 or 2 or with teacher permission, application required

This course is designed for students interested in pursuing a career in early childhood education or child related fields. The volunteer will go by bus at 1:30 to the assigned school and assist in the kindergarten/elementary classroom. 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.












Law, Public Safety And Security

732 **Intro To First Responders**  **Accelerated** **½ Credit**
Grades 9, 10, 11, 12

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.

New Britain High School Health Academy

Our mission for the Academy of Health and 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.

9 th Grade	10 th Grade	11 th Grade	12 th Grade
<p><u>Pathway 1: PLTW –Biomedical Science</u></p> <p>1. Principles of Biomedical Science-581 (PBS)* (Honors) - 1 credit (BMS-1) </p> <p>*(Equals two NAF classes toward NAF certification)</p> <p><u>Pathway 2: – Healthcare Careers</u></p> <p>1. HCS-1:HealthCare Science Discover Healthcare-768 (Accelerated) – ½ credit</p>	<p><u>Pathway 1: PLTW – Biomedical Science</u></p> <p>1. Principles of Biomedical Science-581 (PBS)* (Honors) - 1 credit </p> <p>2. Human Body Systems- 551 (HBS)* (Honors) – 1 credit (BMS-2) </p> <p>*(Equals two NAF classes toward NAF certification)</p> <p><u>Pathway 2: – Healthcare Careers</u></p> <p>1. HCS–2: HealthCare Science-782* (Accelerated) – 1 credit </p> <p>*(NAF course toward NAF certification)</p>	<p><u>Pathway 1: PLTW – Biomedical Science Program</u></p> <p>1. Human Body Systems 551 (HBS)* (Honors) – 1 credit </p> <p>2. Medical Interventions 501 (MI)* (Honors) - 1 credit (BMS-3) </p> <p>*(Equals two NAF classes toward NAF certification)</p> <p><u>Pathway 2: – Healthcare Careers</u></p> <p>Course options:</p> <p>1. HCS-3: Health Care Science-784 * (Accelerated) – 1 credit </p> <p>UCONN ECE COURSES-Open for both pathways</p> <p>1. UConn ECE Intro to Allied Health Professions786 (Accelerated) – ½ credit (1 Uconn college credit)</p> <p>2. UConn ECE-Medical Terminology 550-Virtual only (earn 2 FREE Uconn college credits)</p>	<p><u>Pathway 1: PLTW – Biomedical Science Program</u></p> <p>1. Medical Interventions-501 (MI)* (Honors) - 1 credit (BMS-3) </p> <p>2. Biomedical Innovations-511 (BI)* (Honors) - 1 credit (BMS-4) </p> <p>*(Equals two NAF classes toward NAF certification)</p> <p><u>Pathway 2: – Healthcare Careers</u></p> <p>Course options:</p> <p>1. HCS- 4 Clinical rotations-792 (Accelerated) – 1 credit </p> <p>2. Certificate programs –Accelerated</p> <ul style="list-style-type: none"> • CNA program-764 (at NBHS) (Accelerated) – 1 credit  <p>UCONN ECE COURSES-Open for both pathways</p> <p>1. UConn ECE Intro to Allied Health Professions786 (Accelerated) – ½ credit (1 Uconn college credit)</p> <p>2. UConn ECE-Medical Terminology 550-Virtual only (earn 2 FREE Uconn college credits)</p>
<p>Student engagement:</p> <ul style="list-style-type: none"> • In-school field trip • Introduction to HOSA 	<p>Student engagement:</p> <ul style="list-style-type: none"> • HOSA EVENTS • Heart Saver CPR 	<p>Student engagement:</p> <ul style="list-style-type: none"> • HOSA events 	<p>Student engagement:</p> <ul style="list-style-type: none"> • BMS Portfolio • Internships available • BLS CPR • Clinical rotations

Please note: Health academy courses may fulfill the graduation requirement for STEM.

Pathway 1 (Honors) - PLTW

Pathway 1 (Honors) – Project Lead The Way Biomedical Science (BMS) Program

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.

581 Bms 1 – Principles Of Biomedical Sciences Honors* 1 Credit **Grade 9 & 10**

Students investigate the human body systems and various health conditions including heart disease, diabetes, sickle-cell disease, hypercholesterolemia, and infectious diseases. They determine the factors that led to the death of a fictional person, and investigate lifestyle choices and medical treatments that might have prolonged the person's life. The activities and projects introduce students to human physiology, medicine, research processes and bioinformatics.

* Students may receive college quality points for receiving at least an 80% average in the course and a 6 or higher on the PLTW End of Course exam. Principles of The Biomedical Sciences qualifies for one honors credit as part of the 3-credit graduation requirement for a life science course.

551 Bms 2 - Human Body Systems Honors* 1 Credit **Students completing PBS 581 have priority enrollment in HBS** **Grade 10, 11**

Students examine the interactions of body systems as they explore identity, communication, power, movement, protection, and homeostasis. Students design experiments, investigate the structures and functions of the human body, and use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration. Exploring science in action, students build organs and tissues on a skeletal manikin, work through interesting real world cases and often play the role of biomedical professionals to solve medical mysteries.

* Students may receive college quality points for receiving at least an 80% 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

501 Bms 3 - Medical Interventions Honors* 1 Credit **Grade 11 and 12 - Prerequisite BMS 1 or BMS 2**

Students investigate the variety of interventions involved in the prevention, diagnosis and treatment of disease as they follow the lives of a fictitious family. The course is a "How-To" manual for maintaining overall health and homeostasis in the body as students explore: how to prevent and fight infection; how to screen and evaluate the code in human 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 are exposed to a wide range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, and diagnostics.

* Students may receive college quality points for receiving at least an 80% 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

511 Bms 4 - Biomedical Innovation
Grade 12 - Prerequisite BMS 2 and BMS 3



Honors*

1 Credit

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 80% 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

**Pathway 2 (Accelerated) –
HealthCare Science (HCS) Program**

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.

768 HCS-1 - Healthcare Science 1 (9th grade)



Accelerated

½ 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.

782 HCS-2 - Healthcare Science 2 (10th grade)



Accelerated

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.

784 HCS-3 - Healthcare Science 3 (11th Grade)



Accelerated

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 an advanced technical or professional health career. 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.

792 HCS-4 - Healthcare Science 4 (12th Grade)  **Accelerated** **1 Credit**
Grade 12 - Prerequisite: HCS 2 and HCS 3 Required

This multidisciplinary senior level health science course exposes students to stimulating, challenging, and dynamic experiences in the skills lab classroom. Emphasis is placed on professional development, communications, safety, bioethical/legal practices, healthcare delivery systems, assessment and diagnostic practices, health maintenance practices, and problem-solving and decision-making. The course includes didactic and practical experience. Based on career interests, students will participate in unpaid internships/job shadows at selected healthcare facilities, such as Hospital for Special Care, The Hospital of Central Connecticut, the University of Connecticut Health Center, Community Health Center, Inc., and other practice settings. Students are responsible for their own transportation to facilities. A culminating portfolio is also a requirement of the class.

Additional Healthcare Courses

550 ECE- Medical Terminology (Online Self-Paced)  **College** **½ Credit**
Grade 11/12 - 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 and no google meets. 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!**

786 ECE-Introduction to Allied Health Professions  **College** **½ 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!**

764 Nursing Assistant **Accelerated** **1 Credit**
766 Hospital Training (Outside of school day)   **Accelerated** **½ Credit**
Grade 11 & 12

Certified Nursing Assistant (764) is a full year course designed for students interested in pursuing a healthcare career, such as a nursing assistant, registered nurse, physician, or physical therapist. This course focuses on learning the skills required to provide safe, quality patient care. Hospital Training (766) is a requirement of the CNA Program, in which students obtain a minimum of 60 hours of clinical practice at local healthcare facilities, including The Hospital of Central Connecticut, The Hospital for Special Care and local nursing homes. Students will obtain skills necessary to deliver patient care, as well as first aid techniques including CPR and first aid training. The successful completion of academic work, and clinical training allows students the opportunity to take the State of Connecticut Certified Nurse Aide Examination through Prometric at the end of the school year. There is a cost for testing. All students who wish to take this course will be interviewed by the CNA Teacher, 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, and is only open to juniors and seniors.

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.

MET Pathways At A Glance

Career Pathway	Course 1	Course 2	Course 3	Course 4
Automotive	<ul style="list-style-type: none"> Automotive 1 818 	<ul style="list-style-type: none"> Automotive 2 816 - (2 credits) 	<ul style="list-style-type: none"> Independent Study Manufacturing 843 Construction 874 Engineering Essentials 811 	<ul style="list-style-type: none"> Independent Study Manufacturing 843 Construction 874 Engineering Essentials 811
Construction	<ul style="list-style-type: none"> Construction 1 874 	<ul style="list-style-type: none"> Residential Construction 876 CAD Construction 822 	<ul style="list-style-type: none"> CAD Construction 822 Residential Construction 876 	<ul style="list-style-type: none"> Introduction to Engineering Design 821 Manufacturing 843 Automotive 818
Engineering	<ul style="list-style-type: none"> Engineering Essentials 811 Introduction to Engineering Design 821 	<ul style="list-style-type: none"> Introduction to Engineering Design 821 Engineering Essentials 811 	<ul style="list-style-type: none"> Computer Integrated Manufacturing 851 	<ul style="list-style-type: none"> AP Physics 560 Manufacturing 843 Residential Construction 876 Automotive 818
Manufacturing	<ul style="list-style-type: none"> Manufacturing 1 844 	<ul style="list-style-type: none"> Manufacturing 2 846 	<ul style="list-style-type: none"> Computer Integrated Manufacturing 851 	<ul style="list-style-type: none"> Residential Construction 876 Engineering Essentials 811 Automotive 818
Graphics Design and Communications	<ul style="list-style-type: none"> Graphic Arts 1 884 Website Design 886 (Can be taken any year) 	<ul style="list-style-type: none"> Graphic Arts 2 856 Video 1 894 & Video 2 896 Website Design 886 	<ul style="list-style-type: none"> Video 1 894 & Video 2 896 Graphic Arts 2 853 Website Design 886 	<ul style="list-style-type: none"> Website Design 886 Entrepreneurship
Students with at least 2 years in a pathway qualify for internships and other work based learning opportunities. Students must apply.				

802 Explorations In Stem Careers**Accelerated****1 Credit**

Grade 9 - 12

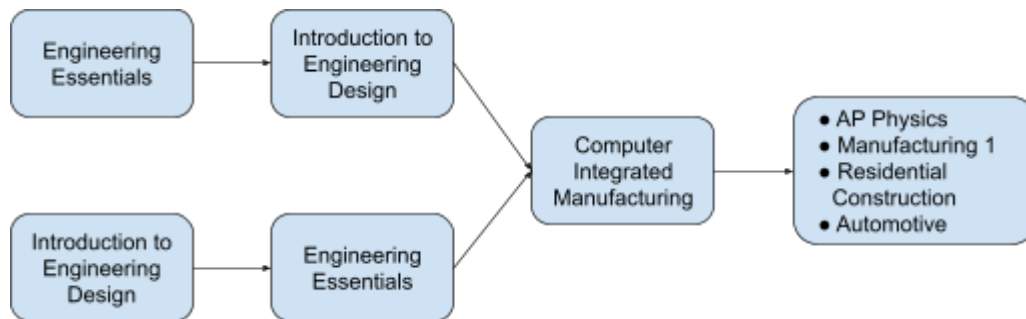
This foundation course introduces students to career opportunities in STEM. This can be taken as part of any pathway in the MET academy. Topics to be covered in this course include, but are not limited to, basic concepts, processes and skills of technology & engineering; an overview of the varied STEM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

High School Pre-Engineering Pathway: Project Lead The Way (PLTW)

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.

Recommended Sequence Of Courses

(Engineering Essentials and Introduction to Engineering run on alternating years)

**811 Engineering Essentials (PLTW)****Honors*****1 Credit**

Grades 9, 10, 11, 12

Prerequisites: Concurrent enrollment in accelerated or higher science and math

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. 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.

**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.*

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

Grades 9, 10, 11, 12

Prerequisites: 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.*

851 Computer Integrated Manufacturing (PLTW)**Honors*****1 Credit**

Grades 11, 12

Prerequisites: 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.

**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.*

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

Grade 12

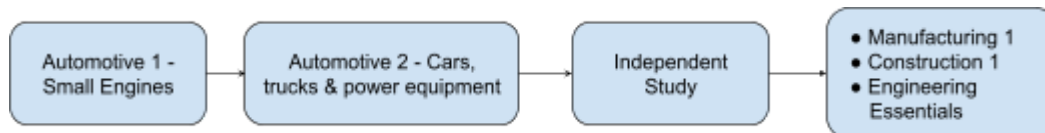
Prerequisites: Has earned 3 credits from the MET Academy

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 Recommended Sequence Of Courses

**818 Automotive Technology 1****Accelerated****1 Credit**

Grades 9, 10, 11, 12

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 (power equipment). Students also have the opportunity to refurbish a small engine provided by the school, or a small engine that they bring in for themselves. Students can then take their running engine home, or sell it, as they wish. **Students are strongly encouraged to bring in power equipment projects to repair (lawnmowers, snowblowers, etc.), as they will earn extra credit for doing so.**

816 Automotive Technology 2**Accelerated****1 Credit**

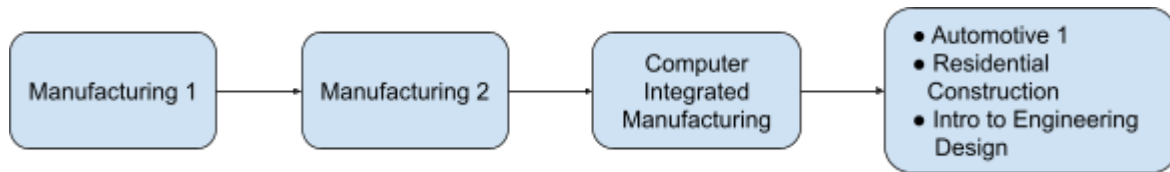
Grades 10, 11, 12

Prerequisite: Automotive Technology 1 or Permission of the Instructor.

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 and power equipment repair, though students may work on any mechanical project with the Instructor's permission. **Students are strongly encouraged to bring projects to class that they can work on, for extra credit.** 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.

Manufacturing Pathway

Recommended Sequence Of Courses



844 Manufacturing 1



Accelerated

1 Credit

Grades 9, 10, 11, 12

CCSU Credit (3 credits) Pending

Introduces the student to the fundamentals of Metal Machining Technology and BluePrint Reading. The student is introduced to the basic metal machining equipment including Lathe, Miller, Saw, and Grinding Wheels. 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. Students will identify the major parts of the vertical, align a vise, use an indicator, edge finder, determine speeds and feeds, perform simple indexing, mill flat, square surfaces and slots, drill, and tap holes.

846 Manufacturing 2



Accelerated

1 Credit

Grades 10, 11, 12

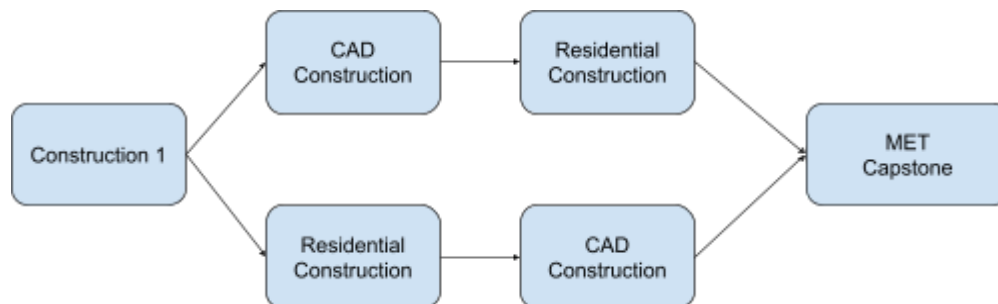
Prerequisite Manufacturing 1

CCSU Credit (3 credits) Pending

Provides the student an in-depth exposure to the lathe and milling manual 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 and Horizontal Milling Operations will include an introduction to the Offset Boring Head, Side Milling Cutters, and Face Milling Cutters.

Construction Pathway

Recommended Sequence Of Courses:



874 Construction 1



Accelerated

½ Credit

Grades 9, 10, 11, 12

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.

876 Residential Construction**Accelerated****1 Credit***Grades 10, 11, 12***Prerequisite: Construction 1 (874)**

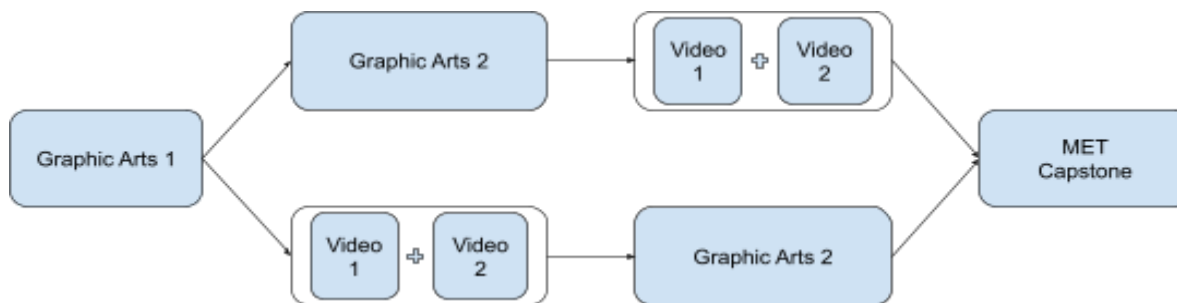
Residential Construction provides students with a working understanding of the key elements associated with designing, planning, and constructing a structure on-site. Students learn major concepts through hands-on activities using contemporary construction tools and materials. Activities involve a variety 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.

822 CAD Construction**Accelerated****½ Credit***Grades 10, 11, 12*

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.

Media and Design Pathway

Recommended Sequence Of Courses:



884 Graphic Arts 1



Accelerated

½ Credit

Grades 9, 10, 11, 12

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.

886 WebSite Design 1



Accelerated

½ Credit

Grades 9, 10, 11, 12

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.

854 Graphic Arts 2



Accelerated

1 Credit

Grades 10, 11, 12

Prerequisite: Graphic Arts (884)

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.

856 Graphic Arts 3



Accelerated

1 Credit

Grades 10, 11, 12

Prerequisite: Graphic Arts 1 (884) and Graphic Arts 2 (853)

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.

886 WebSite Design 1**Accelerated****½ Credit***Grades 9, 10, 11, 12*

Web Design provides a hands-on introduction to designing, building, and launching websites. First students learn how the World Wide Web works, and they examine successful websites. Then they learn the basics of HTML and CSS coding and create their own web pages. From there, students explore various web development tools, the principles of design, usability and accessibility issues, and web-based publishing tools. Finally, students get a chance to discover what types of web design careers exist today.

894 Video Production 1**Accelerated****½ Credit***Grades 10, 11, 12***Prerequisite: Graphic Arts (884) 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.

896 Video Production 2**Accelerated****½ Credit***Grades 10, 11, 12***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.

The 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 in the art department are designed to help students reach their artistic potential and provide a foundation for a life-long involvement with art.

904 Elements Of Art



Grades 9, 10, 11, 12

Accelerated

1 Credit

This full-year course is the prerequisite for all upper-level art classes. It is for students interested in an artistic experience as part of their course of study. Students will gain an understanding of how they can utilize the Elements of Art and Principles of Design to find their creative voice. Various themes, artist styles, and movements will be discussed and students will be able to discover their own individual styles while experimenting with a wide range of subjects and media. Students will utilize their own style to communicate their themes, ideas, and feelings through art-making to visually communicate. A sketchbook is required for this class. Journal keeping is an important part of the course.

942 2D ART (Drawing 1/Painting 1)



Grades 10, 11, 12

Accelerated

1 Credit

Prerequisite: 904 Elements of Art

This is a full-year course for those students who wish to continue in art. Students will concentrate on a variety of media and techniques such as drawing, painting, printmaking, collage, and mixed media. Originality and creative problem-solving is stressed. All traditional aspects of these media techniques will be featured, as well as those that are nontraditional and experimental. Some media used will be graphite, colored pencil, pastels, ink, watercolor, and acrylic. A sketchbook is required for the class. Assessments are based on knowledge of artists, art styles, and art terms discussed in class.

914 Drawing 2**Accelerated****1 Credit** *Grades 11, 12***Prerequisite: 942 2D Art**

Art In this full year course, students will build upon their basic drawing skills and techniques. 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.

982 3D Art (Ceramics 1/ Sculptures 1)**Accelerated****1 Credit** *Grades 10,**11, 12***Prerequisite: 904 Elements of Art**

This is a full year course that explores techniques and develops skills in both ceramics and sculpture, 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. Students will also focus on using a variety of materials in hands-on construction using sculpture techniques.

922 Ceramics 2**Accelerated****1 Credit** *Grades 11,**12***Prerequisite: 982 3D Art**

In this full year course, students will build upon the skills, techniques and processes learned in 982 3D Art 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.

928 Painting 2**Accelerated****1 Credit** *Grades 11, 12***Prerequisite: 942 2D Art**

In this full year course, students will build upon their basic painting skills and techniques. 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 more. 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.

944 Digital Arts 1**Accelerated****1 Credit** *Grade 11, 12***Prerequisite: 942 2D Art or 884 Graphic Arts and 904 Elements of Art**

In this full year course, students will use a stylus to create art using various software programs on a tablet/ iPad. Students will digitally sketch, illustrate, paint, draw, and manipulate photography 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. Adobe Suite, Sketchbook, Procreate, and other software tools will be used to create original digital works of art. A digital sketchbook and journal are required for this class.



930 AP Studio Art

College

1 Credit Grade 11, 12

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

The AP Studio Art program allows for highly motivated students with a serious interest in the visual arts to take college-level work at the high school level. 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 15 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.



773 Unified Arts

Standard

½ Credit

This course provides an opportunity for regular education students and special education students to participate in expression in the arts. This is designed for students interested in developing leadership skills and learning to work with special populations. 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.

The 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.

Non-Performance Music Program

962P Power in Protest: Music In Society



11, 12

Accelerated 1/2 Credit Grades 9, 10,

Ever wonder what makes medieval chant and modern rap similar in musical style? This is a musical survey course that explores the similarities and differences of secular “pop” music. We will look at cultural and historical influences that inspired musical evolution, as well as how music changed society. Areas of study may include, but are not limited to, Rap, Hip-Hop, R&B, Gospel, Rock, Bluegrass, Blues, Jazz, and even classical. 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.

984 Introduction to Music Technology



1/2 Credit Grades 9, 10, 11, 12

Accelerated

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.

964 Advanced Music Technology



Credit Grades 9, 10, 11, 12

Accelerated

1/2

Prerequisite: Successful Completion of Introduction to Music Technology

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 complete Introduction to Music Technology in order to enroll for this course. This is a one semester course.



966 Introduction to Music Theory

Credit Grades 9, 10, 11, 12

Accelerated

1/2

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 a one semester course.

**974 Advanced Music Theory/ ECE Music Theory
Credit**



Accelerated

1/2

Grades 10, 11, 12

Prerequisite: Successful Completion of Introduction to Music Theory; or Permission of the Instructor 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.

970 AP/ECE Music Theory



College

1 Credit

Grades 11, 12

Prerequisite: Introduction to Music Theory, Advanced Music Theory, and/or Permission of the Instructor

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.

**976A Introduction to Piano
Credit**



Accelerated

1/2

Grades 9, 10, 11, 12

This is a beginning 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

**976B Advanced Piano
1/2 Credit**



Accelerated

Grades 9, 10, 11, 12

Prerequisite: Successful Completion of Introduction to Piano; or Permission of the Instructor

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.

Band Program



**954AS Marching Band & Auxiliaries
1/2 Credit**

Accelerated

Grades 9, 10, 11, 12

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 & Auxiliaries is a one semester 1/2 credit co-curricular class that provides a wonderful musical experience for all wind and percussion instrumentalists, as well as flag corps and Cane-ette members. 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 and auxiliaries perform at home and away football games, as well as several parades throughout the year. While 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.



954B Beginning Band

Accelerated

1

Credit Grades 9, 10, 11, 12

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.



954F Intermediate Band

Accelerated

1 Credit Grades 9, 10, 11, 12

Prerequisite: Student must have prior Band Experience at the MS or HS Level; or Permission of the Instructor

All middle school brass and woodwind instrumentalists should schedule Intermediate Band, as well as 10th-12th graders that are continuing 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 should be concurrently enrolled 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.



954 Concert Band

Accelerated

1

Credit Grades 10, 11, 12

Prerequisite: Successful Completion of Beginning Band; or 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 should be concurrently enrolled 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.



991 Wind Ensemble

Honors

1

Credit Grades 10, 11, 12

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 & Auxiliaries course to continue the tradition of being a member of the renowned award-winning New Britain High School "Golden Hurricane" Marching Band.



981 Jazz Ensemble

Honors

1 Credit

Grades 10, 11, 12

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 members are encouraged to participate in Regional and All-State auditions. All students should be concurrently enrolled 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.



988 Percussion Ensemble

Accelerated

1 Credit Grades 9, 10, 11, 12

Prerequisite: Student must have prior Band Percussion Experience at the MS or HS Level; or Permission of the Instructor

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. 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 the Percussion Ensemble.

Choral Program



956F Freshman Concert Choir

Accelerated

1 Credit Grades 9

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.

956 Concert Choir



Accelerated

1 Credit Grades 10, 11, 12

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.

968 Select Treble Ensemble



Accelerated

1 Credit Grades 9, 10, 11, 12

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.

961 Madrigal Singers/Show Choir



Honors

1 Credit

Grades 10, 11, 12

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.

Orchestral Program

952 String Orchestra



Accelerated

1 Credit

Grades 9, 10, 11, 12

Prerequisite: Student must have prior String Orchestra Experience at the MS or HS Level; or Permission of the Instructor

All freshman string players, and those with less than 4 years of playing experience, should schedule String Orchestra as part of their high school program. Orchestral and ensemble technique 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.



951 Advanced Orchestra

Honors

1

Credit Grades 10, 11, 12

Prerequisite: By Audition Only and Permission of the Instructor

All 10th-12th grade string players may audition for the Advanced Orchestra as part of their high school program. Advanced orchestral and ensemble technique 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.

The 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.



958 Stagecraft

Accelerated

1

Credit Grades 10, 11, 12

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.

992A Acting I

Accelerated

1/2 Credit

Grades 9, 10, 11, 12

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 are expected to meet after school and/or evenings when an auditorium production is in progress.

992B Acting II

Accelerated

1/2

Credit Grades 9, 10, 11, 12

Prerequisite: 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.

Physical Education and 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 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.

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.

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.

779A Physical Education: Personal Fitness 9-12	Standard	1/2 Credit
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This course is designed for students interested in improving their fitness level. Specific areas will include but not be limited to: yoga, pilates, kickboxing, circuit training, weight training, power walking, spin/cycling, and aerobics. Students will actively participate in activities at their own level with the opportunity to set their own fitness goals including weight loss, toning, and overall fitness. State mandated fitness test will be administered in a pre and post-test form.

779B Physical Education: Individual and Dual Sports 9-12	Standard	1/2 Credit
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The students will learn a variety of rules, skills, fundamentals and strategies in a variety of individual and dual sports. Safety and sportsmanship will be emphasized. Activities include but are not limited to: badminton, tennis, track and field, golf, bowling, pickleball, and other individual and dual sports. State mandated fitness test will be administered in a pre and post-test form.

779C Physical Education: Team Sports 9-12	Standard	1/2 Credit
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The students will learn a variety of rules, skills, fundamentals and strategies in multiple team activities. Safety and sportsmanship will be emphasized. Activities include but are not limited to: basketball, volleyball, flag football, soccer, ultimate frisbee, and softball/wiffle ball. State mandated fitness test will be administered in a pre and post-test form.

777 Physical Education: Adapted PE	Standard	1/2 Credit
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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)**

778 Physical Education: Unified Sports

Standard

1/2 Credit

This course provides an opportunity for regular education students and special education students to participate in group activities fostering relationships and camaraderie. This is designed for students with a firm grasp on basic sports interested in developing leadership skills and learning to work with special populations. The class is set up to have each student gain an appreciation and understanding of each other's abilities in a physical setting. Students will be expected to participate in a culminating activity that demonstrates their ability to teach the skills to a student with disabilities. The class naturally fosters new friendships among the Unified PE classmates and promotes students leadership and social competencies. **(Permission of instructor required.)**

7339 Health and Wellness 1

Standard

1/2 Credit

Grades 9 -10

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.

7332 Health and Wellness 2

Standard

1/2 Credit

Grades 11-12

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).**

<p>8R1 Junior ROTC 1  <i>Grades 9, 10, 11, 12</i></p>	Accelerated	1 Credit
<p>8R2 Junior ROTC 2  <i>Grades 10, 11, 12</i> Prerequisite: JROTC 1</p>	Accelerated	1 Credit
<p>8R3 Junior ROTC 3  <i>Grades 11, 12</i> Prerequisite: JROTC 2</p>	Honors	1 Credit
<p>8R4 Junior ROTC 4  <i>Grade 12</i> Prerequisite: JROTC 3</p>	Honors	1 Credit

OTHER PROGRAMS:

<p>8LIA1 Latinos in Action  <i>Grades 9</i></p>	Accelerated	1 Credit
<p>8LIA2 Latinos in Action  <i>Grades 10, 11, 12</i></p>	Accelerated	1 Credit

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.**

<p>440 AP Computer Science Principles  <i>Grades 10, 11, 12</i> Prerequisite: C- or better in 431. STEM or elective credit only <i>(pending BOE approval)</i></p>	College	1 Credit
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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.

Additional Programs

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

Greater Hartford Academy of the Arts

HPA – 1:00 pm-4:15 pm Mon-Thurs

The Greater Hartford Academy of the Arts, a program of the Capitol Region Education Council (CREC), is an integrated magnet arts high school that is open through audition to high school students in the Greater Hartford area. Academy students attend their sending school in the morning and the Academy from 1:00 pm to 4:15 pm, Monday through Thursday. The students spend 13 intensive hours per week pursuing artistic excellence under the guidance of practicing arts professionals, mentors, and educators who are the core faculty at the Academy. Academy students earn high school credits for their participation. These credits meet the state's high school graduation requirement in the areas of physical education, social studies, and the arts. The arts training program is designed to prepare gifted and talented students to pursue post-secondary studies and professional careers in dance, music, theater, creative writing, visual arts, theater design & production and film & TV. The curriculum is professionally oriented, highly structured, and academically rigorous. A visiting artist program brings outstanding artists to the Academy for master classes and presentations. These professional contacts enrich the curriculum as well as provide a realistic perspective on artistic careers.

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.

The 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.

Legal References Connecticut General Statutes

- 10-16 (1) Graduation Exercises (as amended by Public Act 96-26, An Act Concerning Graduation Requirements and Readmission and Placement of Older Students and Public Act 96-108, an act concerning student use of telecommunication devices and the establishment of graduation dates)
- 10-221a High School Graduation Requirements (as amended by Public Act 00-156, an act requiring a Civics course for high school graduation)
- 10-221a High School Graduation Requirements (as amended by Public Act 01-166, an act concerning high school graduation and the Connecticut Academic Performance Test)
- Public Act 11-135 An Act requiring each local Board of Education to create a student success plan for each student enrolled in a public school