



# NBTHS STEM ACADEMY



## PURPOSE

The NBTHS STEM Academy is a “school within the school”, emphasizing opportunities to explore Science, Technology, Engineering and Mathematics through a focused sequence of courses. To foster a collaborative environment, the program will be run as a small cohort. Students in this academy will be able to participate in all athletics, clubs and activities.

## COLLEGE PREPARATION

Students in the NBTHS STEM Academy will experience an in-depth introduction and understanding of STEM. This will prepare them for college by building a foundation for a major in one or more of these field/s of study. Students in the program will have “NBTHS STEM Academy” distinction indicated on their official NBTHS transcripts reported to colleges.

## ACADEMY COURSEWORK REQUIREMENTS

NBTHS STEM Academy students are required to take 4 years of Science, 4 years of Mathematics, introductory courses in Computer Science and Engineering that fulfill graduation requirements, and complete one of the NBTHS recognized pathways in Computer Science, Engineering, Health Sciences or *Environmental Science (new in '25-'26)*. Pathways will be determined in the spring semester for freshman STEM students. Additionally, students must complete AP Capstone Seminar in their Junior year and AP Capstone Research in their Senior year for NBTHS STEM Academy program recognition.

## PREREQUISITES

Successful applicants will show middle school coursework that includes the completion of Algebra I or higher; letter grades of B or better in all classes in grades 7 & 8. Students who do not meet these precise requirements may still apply and be considered, as space permits.

# North Brunswick Township Public Schools

ACADEMY COURSE OFFERINGS: \* indicates new NBTHS course for 2025-26

<b>Math</b> Honors/CP Geometry Honors/CP Algebra II CP Precalculus AP PreCalculus Honors Calculus AP Calculus AB AP Calculus BC Multivariable Calculus AP Statistics	<b>Engineering/Computer Science PLTW</b> Principles of Engineering Computer Integrated Manufacturing AP Computer Science Principles AP Computer Science A AP Computer Science 1 AP Career Kickstart Cybersecurity *	<b>Science</b> Honors/CP Physics Honors/CP Chemistry Honors/CP Biology AP Physics 1 & C AP Chemistry AP Biology Honors Coastal and Marine Science * Honors Biotech and Investigative Science AP Environmental Science * CP/Honors Anatomy & Physiology CP/Honors Medical Technology
<b>Required Electives</b> Intro to Engineering Design <b>and/or</b> Computer Science Essentials AP Capstone Seminar <b>and</b> AP Capstone Research		

## ONLINE COURSEWORK

To create space in students' schedules for other experiences, NBTHS STEM Academy students will be given the optional opportunity to study independently using an online platform for Financial Literacy at the end of their sophomore year and Visual Arts at the end of their junior year. This will assist students in fulfilling mandated state graduation requirements outside of the typical school day.

## ADDITIONAL NBTHS STEM ACADEMY PROGRAM DETAILS

Additional Details about the program, pathways and recognitions are found in this linked [NBTHS STEM Academy Overview](#) document.

## ADMISSIONS

All 8th grade students who wish to apply to the NBTHS STEM Academy must be considered in Good Academic & Behavioral Standing and submit a completed application packet that includes: Application Form, Student Written Personal Statement (300-500 words on student-selected prompt as found below), Copy of 7th Grade Report Card. and a Copy of the Most Recent 8th Grade Report Card.

**Completed applications must be received by Monday, February 24, 2025**

**Applications may be mailed or dropped off directly at NBTHS.**

North Brunswick Township High School  
98 Raider Road  
North Brunswick, NJ 08902  
Attn: Jeannine Lanphear (STEM Application)

## SELECTION PROCESS

A committee of NBTHS Supervisors and teachers will review completed applications and render decisions. Students will be notified of their acceptance status prior to Spring Break via email.

# North Brunswick Township Public Schools



## NBTHS STEM ACADEMY APPLICATION FORM

PLEASE PRINT CLEARLY

### STUDENT INFORMATION:

TODAY'S DATE	
LAST NAME	
FIRST NAME	
STUDENT ID #	
SCHOOL ATTENDING FOR 8TH GRADE	

### PARENT/GUARDIAN CONTACT INFORMATION:

PARENT/GUARDIAN NAME	
MAILING ADDRESS	
BEST TELEPHONE NUMBER	
BEST EMAIL - will be used for notification	

# North Brunswick Township Public Schools



## Student Written Personal Statement Directions

Students should select one prompt from the options below, and complete a personal response of 300-500 words that will provide additional information to the Selection Committee. Students select and submit their response to **only one prompt**.

Students also need to complete the Honor Code statement to ensure that their personal statement represents their original thoughts in response to the selected prompt.

## Student Written Personal Statement Options

(Check the selected prompt and attach the Personal Statement)

- ☐ **Prompt 1:** Discuss a STEM-related project you undertook independently or as part of a team, highlighting the challenges you faced and how you overcame them.
- ☐ **Prompt 2:** Explain how your understanding of STEM principles has helped you solve a real-world problem in your community.
- ☐ **Prompt 3:** What specific aspects of the STEM Academy curriculum are most appealing to you and how do you plan to leverage them to achieve your future career aspirations?

**I certify that this personal statement is my own work, and that I have not received assistance with its content.**

---

Student's Name

---

Signature of Student

---

Date

# North Brunswick Township Public Schools

## CHECK BOXES FOR NBTHS STEM ACADEMY APPLICATION COMPLETION:

- ☐ This three page application is printed & filled out completely
- ☐ Student's 300-500 Personal Statement is Attached with signed Honor Code Statement
- ☐ A Copy of Student's 7th Grade Report Card is Attached
- ☐ A Copy of Student's Most Recent Report Card (Grade 8) is Attached

## SIGNATURES:

STUDENT NAME - Print	
STUDENT SIGNATURE	
PARENT NAME - Print	
PARENT SIGNATURE	

## NBTHS STEM ACADEMY Information Session and Application Q&A Session

February 20, 2025 6:30-8:30pm

[See attached flyer](#)

### Any questions can be directed to:

Mrs. Lanphear ([lanphear@nbtschools.org](mailto:lanphear@nbtschools.org)), NBTHS Science Supervisor

Mrs. Aloisio ([kaloisio@nbtschools.org](mailto:kaloisio@nbtschools.org)), NBTHS Math Supervisor

**All completed application packets must be returned to the main office of  
North Brunswick Township High School**

**Applications may be mailed or dropped off directly to NBTHS,  
and must be received by **Monday, February 24, 2025****

**North Brunswick Township High School  
98 Raider Road  
North Brunswick, NJ 08902  
Attn: Jeannine Lanphear (STEM Application)**

