



## **Haverhill High School Biomedical Science & Engineering Pathways Application** **2021-2022 School year**

Haverhill High School offers two Project Lead the Way Pathways: Biomedical Science and Engineering. Haverhill High School is excited to offer these challenging and rigorous programs to our students.

The [PLTW Biomedical Pathway](#) is a three course sequence where scholars explore hands-on activities, learn lab techniques, and collaborate with their peers to find solutions to medical mysteries. Scholars will have the opportunity to work with the same tools and lab equipment that is used in hospitals and labs. The three course sequence consists of Principles of Biomedical Science, Human Body Systems, and Medical Interventions.

The [PLTW Engineering Pathways](#) consists of three courses: Introduction to Engineering Design, Principles of Engineering, and Digital Electronics. Scholars will solve real world problems by taking on the role of engineers and using a problem-solving mindset. Students will work with 3D modeling software and industry design tools.

Much like the College Board's Advanced Placement courses, the Project Lead The Way pathways are nationally recognized by colleges and universities. Having multiple PLTW courses on their transcript gives HHS students an advantage over their peers in other high schools when applying to college. Scholars and parents/guardians can learn more about these programs by visiting [www.pltw.org](http://www.pltw.org).

We are excited that you are applying to the PLTW programs and we are ready to support you. If you have any questions, please feel free to contact us at the email addresses below. We are looking forward to reading your applications!

Sincerely,

Kevin Higginbottom, K-12 Supervisor of Science & Technology [khigginbottom@haverhill-ps.org](mailto:khigginbottom@haverhill-ps.org)  
Grace McIntyre, Dean of the HHS STEM Academy [gmcintyre@haverhill-ps.org](mailto:gmcintyre@haverhill-ps.org)

## **Student Biographical Information**

Student Name:

School currently attending:

Student email address:

Parent or Guardian(s) Names:

Parent or Guardian(s) email address(es):

Parent or Guardian(s) phone number (optional):

## **Student Writing Samples**

Please read and respond to both of the following prompts. Make sure to address all parts of the question and provide as much detail about yourself as possible. Digitally sign in the space below your responses to verify that this writing is your own work.

**Please select the program that you are applying for:**

\_\_\_\_\_ **PLTW Biomedical Science**

\_\_\_\_\_ **PLTW Engineering**

### Question 1

Explain why you want to participate in the Biomedical or Engineering Pathway. Include your goals and interests, as well as what you would like to accomplish both in the pathway and after high school. (Please use the space below to answer OR use additional sheets and staple them to this application.)

### Question 2

Describe your ability to be successful in the pathway by discussing your strengths and weaknesses as a student. How do you plan to both deepen your strengths and improve these weaknesses? (Please use the space below to answer OR use additional sheets and staple them to this application.)

### Question 3

Please discuss how you manage the following responsibilities as a student: How would you describe your school attendance? How do you manage your time (for example, how do you get all of your school work completed if you also have responsibilities like sports or family obligations after school)? What are your study habits? (Please use the space below to answer OR use additional sheets and staple them to this application.)

### Question 4

Can you give an example of a science topic that you learned about (either in class or out of school) that really excited and interested you? Why were you so interested? (Please use the space below to answer OR use additional sheets and staple them to this application.)

### Question 5

Please describe a specific topic from science class that was difficult to learn. What did you do to learn a science topic that was so complex? (Please use the space below to answer OR use additional sheets and staple them to this application.)

I attest that these writing samples are my own work. Please PRINT AND SIGN (digital signature is acceptable) your name below to acknowledge this statement above.

## **Academic Background**

Please provide some basic information on your 8th Grade academic performance so far this school year.

Who is your current 8th grade Science teacher?

What was your grade in your 8th Grade Science class for the following marking terms?

- Trimester 1 -
  
- Trimester 2 -
  - Trimester 2 science grade as of the date that you are completing this application.  
(Please get this from your teacher.)

Who is your current 8th grade Math teacher?

What was your grade in your 8th Grade Math class for the following marking terms?

- Trimester 1 -
  
- Trimester 2 -
  - Trimester 2 math grade as of the date that you are completing this application.  
(Please get this from your teacher.)

### **Parent Support and Commitments**

The HHS BioMedical Science Pathway & Engineering Pathway is a rigorous and challenging course of study. Students enrolled in this program will be expected to work hard and achieve to a high standard. Have you discussed with your parent(s) and/ or guardian(s) this program, as well as the high expectations, AND do you have their support to participate?

- PLEASE CIRCLE ONE - YES    NO

The HHS Biomedical Science Pathway consists of three courses. Student participants will be expected to commit to complete three total courses (one course in each grade of grades 9, 10 and 11) in addition to other required science courses including Biology in the ninth grade. Please know that your teachers, Ms. McIntyre and Mr. Higginbottom will all be there to support you as you make your way through this Pathway. Are you prepared to make this commitment?

- PLEASE CIRCLE ONE - YES    NO

If you answered "No" to the above question about your level of commitment, please share your comments or concerns. This will help us better understand your feelings about participating. Please use the space below to answer OR use additional sheets and staple them to this application.)

I attest that all of the information that I am submitting through this application is true to the best of my knowledge. (Please PRINT AND SIGN your name below to acknowledge this statement.)