



Parsippany-Troy Hills Township Schools

STEM Pathway Guidelines and Requirements

General Guidelines:

1. Applications for the STEM Pathway must be submitted to your school counselor by April 15th each school year. (Each year you must renew your commitment to the program).
2. In order to withdraw from the program, a withdrawal form must be completed.
3. To join this program, students must send in their application prior to the start of their 9th grade year (see date above).
4. Students must complete their portfolio checklist each year and have it initialed by their STEM advisor.
5. Attend meetings with the STEM advisor, when applicable.

****Note: For students in the classes of 2021, 2022 and 2023, please see your counselor for potential eligibility.**

Requirements:

Program Requirements

Regular Pathway	Distinction Pathway
<ul style="list-style-type: none">• 4 credits of Math• 4 credits of Science• 4 credits of STEM-designated electives• Maintain an overall 2.85 GPA• Participate in a minimum of 3 STEM presentations/conferences a year with a required minimum total of 12 presentations/conferences throughout the 4 years.• Join a STEM-related extracurricular activity or club every year of attendance.	<ul style="list-style-type: none">• 4 credits of Math• 4 credits of Science• 4 credits of STEM-designated electives• Complete one AP Science Class• Complete one AP Math Class• Complete one Computer Science/Technology class• Maintain an overall 3.5 GPA• Participate in a minimum of 3 STEM presentations/conferences a year with a required minimum total of 12 presentations/conferences throughout the 4 years.• Join a STEM-related extracurricular activity or club every year of attendance.• Either participate in an internship or design and implement a community impact project.

Presentations/Conferences:

1. Regardless of Pathway (Regular or Distinction), students must participate in at least 3 presentations/conferences a year. A minimum of 12 presentations/conferences must be accumulated over the course of the student's high school career.
2. Students may opt to attend presentations/conferences outside of school hours, with the permission of their parents/guardians. If a student is participating in a presentation/conference independently outside of school hours and not associated with PTHSD, approval must be attained by the STEM advisor in advance to ensure the presentation/conference meets the objectives of the STEM

Parsippany-Troy Hills Township Schools

Pathway. The form can be found on the STEM Pathway Google Classroom.

Extracurricular Clubs:

Below is a chart of extracurricular clubs that count towards the STEM Pathway requirements.

PHS	PHHS
Science Olympiad HOSA Environmental Club Math Team First Tech Robotic Challenge	Science Olympiad Environmental Club Math Team First Tech Robotic Challenge Science National Honor Society

Distinction Internship or Community Impact Project

1. Students who would like to obtain the “*Distinction*,” endorsement must either participate in an internship or complete a community impact project.
2. Internship and community impact project proposal sheets must be submitted for approval to the STEM advisor before the start of any project or internship.
3. Impact projects and internship summary presentations will take place once a year in front of a panel. Guidelines for these projects and proposal documents can be found on the Google Classroom.

Qualifying Elective Courses:

Science	Math	Computer Science/ Technology	Art	Applied Technology /Family and Consumer Science/Other
<ul style="list-style-type: none"> ● AP Biology ● AP Chemistry ● AP Physics C ● Forensics ● Honors Anatomy and Physiology ● AP Environmental ● Marine Biology ● Organic Chemistry ● Genetics ● Food Sustainability ● Bioethics ● Mythbusting in Science ● Astronomy 	<ul style="list-style-type: none"> ● AP Calculus ● AP Statistics ● Calculus ● Probability, Statistics, and Discrete Math ● Precalculus ● Algebra 3 ● Applied Math 	<ul style="list-style-type: none"> ● Intro to Comp Prog in C & Apps Develop ● Robotics ● Computer Science and Programming Concepts with Python ● AP Computer Science Principles ● AP Computer Science A ● Honors Data Structures and Advanced Programming ● Networks & Routing ● Cybersecurity 	<ul style="list-style-type: none"> ● Graphic Design ● AP Studio Art ● Digital Photography 	<ul style="list-style-type: none"> ● Nutrition for an Active Lifestyle ● Design Tech I/II ● Woods Tech I /II ● Engineering CAD I/II/ II Honors ● Stagecraft ● Television Production I / II ● Careers in Medicine (Phys Ed department)

***** Special Notes:**

- VHS and Independent study may fall under one of these categories upon review and approval of the proposal.
- It may be possible to earn Dual Enrollment Credits through NJIT which may count toward program

Parsippany-Troy Hills Township Schools

requirements.

Finalization of Pathway Endorsement:

1. The student must complete the portfolio checklist by May 15th, prior to graduation, and have it verified by the STEM advisor. Activities that occur after May 15th, senior year, will not count towards the STEM requirements as data needs to be collected in order to prepare for graduation.
2. Upon review by the STEM advisor, it will be determined if the student met ALL requirements for either the regular endorsement or the distinction endorsement.
3. Once verified, the student will receive the proper endorsement on their transcript.

Please feel free to contact your STEM advisor with any questions you may have.

PHS: TBD

PHHS: TBD

Sincerely,

Kelly Curtiss and Rachel Villanova

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