

Career & Academic Pathways

BOE Presentation: 11/7/22



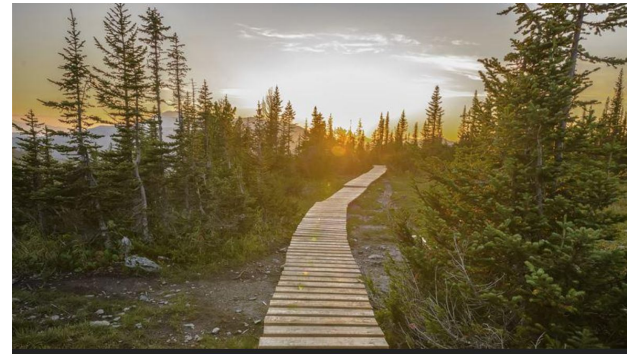
Kim Hayes, Program Supervisor
Tom Walsh, Senior Internship Mentor

What Exactly is Pathways?

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Educational Experiences including:

- Senior Internships (summer, half-day, and after-school)
- Community Service and Volunteering
- Dual Enrollment
- College Partnerships
- Seated and/or Online Courses for Enrichment/Advancement
- Independent Study
- Apprenticeship Programs
- Wellness PE
- Work-based Learning



Why Pathways?

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- Geared for every type of student (e.g., gifted and talented; those interested in trades; pre-professionally focused; those wanting a unique experience).
- Supports teacher instruction and validates theory to practice.
- Teaches students soft skills in order to be career-ready.
- The NJDOE now requires all subject fields to integrate career-ready standards in their units: <https://www.nj.gov/education/cccs/2020/>.

Looking Forward and Future Plans:

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- BCC Early College Program (pilot cohort of four students in the Class of 2024).
- CTE (conducting research on offering Business, STEM, and Healthcare Clusters.
- Exploration of Apprenticeship Programs through NJDOE grants.
- Study Abroad Opportunities (e.g., Heller High/Gratz College in Israel; CIEE).
- Partnership with WPU (Dual Enrollment, Aspiring Educators).
- Continuing to expand our Dual Enrollment offerings.
- New courses: extension of Quantum Computing (IBM) - Artificial Intelligence (IBM)



**Current Programs are
Thriving!**

Senior Internships!

Senior Internships

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- Launched five years ago for half-day.
- Now offer after-school; summer placements.
- Database of over 400 community contacts.
- Our District offers a unique combination of options to enhance college applications.



Summer 2022...

- Biomedical Engineering
- Mechanical Engineering
- Medical/Nursing
- Veterinary Medicine
- Marketing
- Journalism
- Publishing
- Government (Congress)
- Government (County)
- Law/Paralegal
- Computer Science



HolyName 



 **HYPE**MARKETING

SMART MARKETING
FOR SMALL & GROWING BUSINESSES

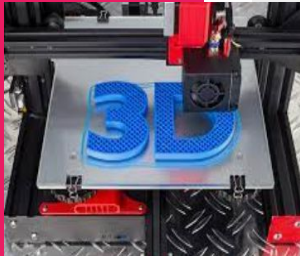
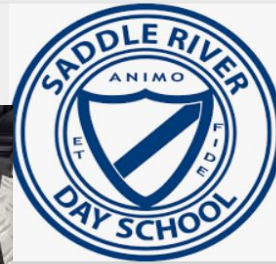


 **powersolution.com**
your one IT solution



Fall/Spring 2022...

- Audio/Video Editing
- Elementary Education
- Students With Disabilities Education
- Electrical/Plumbing/HVAC
- Digital Arts
- Engineering
- Chiropractic Care

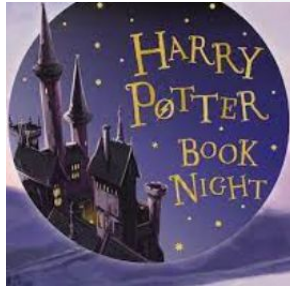


Plasker
Family Chiropractic
Center



And More!

- Automotive Sales
- Historical Preservation
- Dentistry/Orthodontics
- Medical/Nursing
- Insurance and Risk Management
- Dog Care/Training
- Graphic Arts/Design
- Library Event Planning



Meet the Interns!

Sebastian: Paragonix Technologies

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What Did I Do? (Summer Internship)

- Research and Development Intern.
- Remote research projects.
- Hands-on device testing.

What Have I Learned?

- Industry perspective.
- Transfer of idea to product.

How Has This Experience Changed Me?

- Recognized the rewarding career of a biomedical engineer.
- Learned about the unique cross-department collaboration of a startup.



Lily: Waldwick Public Library

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What Do I Do?

- Assistant to the Children's and YA Director.
- Coordinate and market events.

What Have I Learned?

- Time management.

How Has This Experience Changed Me?

- It's made me realize how much libraries are valued and depended on in a community.



Jake: IMP Studios

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What Do I Do?

- Assist with hands-on work in a music studio.

What Have I Learned?

- I have learned more about the craft of making music and putting together a song from scratch.
- I have learned that having multiple heads in the studio with different opinions can really positively affect the outcome of a song.

How Has This Experience Changed Me?

- This experience has taught me to be open-minded and take other people's thoughts into consideration, because the outcome can very well be beneficial.



Ben: Liberty Subaru

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What Do I Do?

- I am a Delivery Specialist.
- When customers come to pick up their car, I walk them through the ins and outs of their new vehicle.

What Have I Learned?

- I took the Subaru sales training course that all salespeople are required to take at the dealership.
- I now know all about the cars they have to offer and the sale process.

How Has This Experience Changed Me?

- I am learning how to deal with people, and could even sell you a Subaru!

Paulina: ECLC

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What Do I Do?

- Working as a one-to-one aide to Elvis who is an 11-year-old boy with Down Syndrome, and I work occasionally with Ruby.

What Have I Learned?

- Patience.

How Has This Experience Changed Me?

- I've learned to see life in such a different way.
- Highlight of my week going there.



Alex: Engineering/NH Teaching Assistant

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What Do I Do?

- I assist some engineering students when it comes to learning topics in class.
- I also have been working on a mechanical wire bender with my teacher.

What Have I Learned?

- That different perspectives can be helpful or hurtful in certain situations.
- Engineering is very complicated, and what I've learned so far isn't even the tip of the iceberg.

How Has This Experience Changed Me?

- It's made me grateful/appreciative for the opportunity that I have and I've also learned to be more patient with difficult tasks.



Allstate®

Dylan: Insurance/Risk Management

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What Do I Do?

- My activities change day to day at Allstate in Ho-Ho-Kus, depending on what they need help with each day. So far though, I have sent out mails for mortgage protection, called clients who are past due on their payments, and sent out emails to existing clients about bundling insurance policies.

What Have I Learned?

- I have learned a lot about the coverages and risks involved in Personal Lines Insurance.
- I have learned how to quote home and auto policies.

How Has This Experience Changed Me?

- This experience has taught me to always be cautious, as I've seen how easy it is to get into bad situations, and how important it is to have insurance in case something bad happens.

Thomas: Generation III

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What Do I Do?

- Work at an electrical company in Walddwick.
- I learned how electricians wire outlets, put in light fixtures, and install a generator.

What Have I Learned?

- I really want to pursue a career in electrical trades.
- I enjoy being a part of a team.

How Has This Experience Changed Me?

- I have developed new thinking skills.
- I have learned to problem solve.



Classroom Connections

Connecting Theory to Practice in Veterinary Medicine...

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“I constantly noticed my knowledge from school applied in a broader context. When I visited the laboratory, I saw technicians using microscopes to analyze blood cells, and they explained the parts of the cell. I recalled familiar terms from biology class like nucleus and leukocytes. By understanding how cells work in healthy and diseased states, veterinarians and biologists are able to diagnose diseases and help develop new vaccines or effective medicines.”

– student from Ms. Vogel’s class

Connecting Theory to Practice in Veterinary Medicine...

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"I read a manual for Diroban, a sterile injection for canine heartworm disease treatment. When I took AP Statistics in school, I always wondered how the class would play a role in the veterinary field. The manual included several tables showing the results from clinical field trials. They tested for adverse reactions like coughing, depression, anorexia, pyrexia, lung congestion, and inappetence. The sample size for those given the chemical, melarsomine dihydrochloride, was 311. A placebo was also given to 63 dogs. I remember learning in school that a placebo in an experiment is necessary to determine if any differences among groups are due to the active medicine or the participants' perceptions."

– student from Mr. Rayside's class

Quotes from the Field (Waldwick Public Library):

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From the Mentor:

“Our first experience with an internship program has exceeded my expectations and sets a high bar for future partnerships...Lastly, one of the unforeseen benefits of working with Lily is getting the insights of a young adult. While we hope that we are educating her, the reverse is also quite true and her perspective has been a breath of fresh air. She is bringing different social media platforms and ideas to our attention and it all helps to keep our library an active hub of the community.”

From our Student Intern:

“All the English Classes I’ve taken have shown me a different side of books, and it really helped add to my interest in working at the Waldwick Public Library. I am helping them build their young adult book list among other things.”

Quotes from the Field (ECLC of NJ - HHK Campus):

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From the Mentor:

“From day one, Paulina has taken the initiative to work with one of our more challenging students in a 1-1 capacity. It is clear that she belongs working in Special Education.”

From our Student Intern:

“Child development has helped me a lot with my internship at ECLC, because it was an introductory course on what steps and strategies should be taken when approaching kids and working with them, especially the younger ones.”

Last Words from a Former Student (Maryam Skairek):

"I attended my orientation at Montclair State University yesterday, and I knew I had to email you about what the academic advisors at my business school told me. They kept stressing the importance of internships and how networking is so so important for our future careers. I couldn't help but feel immense pride for being a part of Pathways this year and getting to experience what an internship is like!...

-student from Ms. DeVoe's class

Community Service



- 3,500 hours last school year!
 - Mini-internship experience.
 - Students receive 1.25 credits each year for 28 hours of service and a grade of P/F.
 - Teaches soft skills and student success.
 - Launching an App (Virtuous) for student access to hundreds of opportunities.
-

Changing Our Community

Student Devon with Celery
Farms Marsh Warden Jim
Wright





Dual Enrollment



- BCC
- FDU
- NJIT
- Ramapo College
- Rutgers
- Seton Hall
- Syracuse
- **Looking to evaluate and expand offerings!**

College Partnerships!



Apply Now!
**Introduction to
Quantum Computing**
2021-2022



Early College Edge at Bergen!

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- New program allowing a student to earn an Associate Degree, General Studies, by taking NH AP and Dual Enrollment classes (savings of over \$20K).
- Can specialize in a particular area (healthcare, engineering).
- NH alternative to Bergen Academies.
- Geared for high-performing students.
- Currently six students in our first cohort (Class of 2024).
- Will graduate with a NH and BCC diploma.

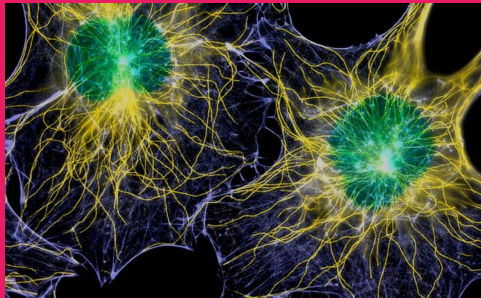
Advancement & Enrichment



- Grades 10-12 can participate.
- Extension of current curriculum.
- NH Summer Academy
- Seated or virtual.
- Given a study period during which to do their work (supports wellness).



Independent Study



- Passion Project
- Available for grade 12
- Student will work on during a study period
- Pass/Fail; not included in GPA.

Examples of Independent Study:

- Digital Filmmaking
- Chemistry Field Research
- Advanced Ceramics
- Neuroscience
- Turkish Studies/Women in Politics



Apprenticeship Training



- Sponsored through IBEW/NECA, students can take five courses completely online, which would fulfill the first year of an electrical apprenticeship.
- In a gamified learning environment, students learn about DC/AC Theory, blueprints, codes, safety, and job opportunities.
- Increased salary potential starting as a second year apprentice.
- You can transfer this program to an electrical trades union.
- **Normally costs \$3,000 -- for NH, cost is \$285.00!**



Wellness/PE



- Counts toward PE requirement (Health is seated).
- Available for grades 9-12.
- Does not include students in extracurricular athletic activities.
- Is limited to high level and individualized competitive sports.
- Pass/Fail; not included in GPA.

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Q & A