



# WATERSHED ACADEMY FOR HIGH SCHOOL STUDENTS



**The Watershed Academy** for high school students presents immersive environmental investigations on the Watershed Reserve. Each five-day session engages students in a world of science where they ask questions and identify problems, gain skills and knowledge, propose solutions, and learn about career opportunities. Students will get hands-on experience as they participate in ongoing scientific studies at The Watershed Institute and learn how to help influence environmental policy in their own communities.

Watershed Academy students have the opportunity to meet with experts and learn about their work in the field. Each week will conclude with a student project that showcases their findings. Participants will collaborate on a poster session, video, letter writing campaign, or traditional presentation.

These experiences engage students in science and stewardship practices to elevate them into awareness, investigation, action, and leadership as they prepare to enter adult roles in their communities.

Due to COVID-19 restrictions, most activities will be held outdoors and will be socially distanced. While indoors, students and staff will wear masks at all times. We require proof of vaccination from all students. Restrictions may change based on CDC and state health guidelines.

### 2022 Sessions:

**June 27 - July 1:** Stream Science Academy

**July 11 - 15:** Clean Water Academy

**July 18 - 22:** Environmental Advocacy Academy - **NEW FOR 2022**

**July 25 - 29:** Green Architecture Academy

**August 1 - 5:** HMEI Water and Climate Academy - **NEW FOR 2022**



## Registration:

1. Become a Member or renew your Membership before January 15, 2022 to receive members-only early access to registration on Tuesday, January 18.
2. Register by going to: [thewatershed.org/academy](http://thewatershed.org/academy)
3. Membership Discount: A 5% discount will apply automatically if you are a member

## Cancellation and Refund Policy:

- All refunds will be charged a \$15 processing fee per student per session
- To be eligible for a refund, cancellations must be submitted a minimum of 3 weeks before the start of a session.
- The Watershed Institute Memberships are not refundable

## Financial Aid:

The Watershed Institute is pleased to offer a limited number of full scholarships for our 2022 Summer Science Academies for High School students. Scholarships are awarded based on financial need and expressed desire of the student to be part of an academic summer program.

The Watershed Institute does not discriminate against applicants based on race, color, national origin, age, disability, sex, gender identity, or religion.

Complete one application form for each child applying to Academy. Applications are due by Monday May 16, 2022 or on a first-come, first-served basis until all scholarship funds are dispersed.

Families who receive scholarships will be accepted and notified on a rolling basis. Priority will be given to students requesting to attend all five weeks of Academy.

## Application for Financial Aid:

- If you would like to apply for financial aid, please complete the Watershed Academy Financial Aid application found at [www.thewatershed.org/academy](http://www.thewatershed.org/academy) or email [academy@thewatershed.org](mailto:academy@thewatershed.org) to have it mailed to you. Students who want to attend all five weeks of Academy are given priority.
- We will have bus transportation available from several stops in Trenton.

## Stream Science \$450

*June 27 - July 1*

Lead your own investigation to determine the health of our streams! We will study water quality indicators and perform tests in this hands-on session. Explore the nearby Beden Brook, learn how freshwater scientists determine watershed health, identify potential sources of pollution, and propose potential solutions to water quality problems.

- Learn and practice the scientific methods of assessing water quality.
- Identify and understand potential threats to the health of the stream.
- Develop solutions to water quality problems.



## Clean Water \$450

*July 11 - 15*

Pollution from urban stormwater is a serious threat to clean drinking water, healthy rivers, and healthy stream ecosystems. Join our science team, led by Science and Stewardship Director Steve Tuorto, to learn how we are paving the way for better stormwater management to keep our watersheds healthy.

- Conduct stream assessments to measure the impacts of urbanization and stormwater management on water quality.
- Explore how we and our local communities have worked to reduce pollution and flooding through nature-inspired rainwater management.
- Assess stormwater management in Hopewell Borough and design rainwater solutions as part of an ongoing Watershed Institute research and restoration project funded by the state Department of Environmental Protection.



## Environmental Advocacy/Climate Action \$450

*July 18 - 22*

Young people are making a difference in environmental causes. Learn how to influence policy at the local, state and federal level. Meet with legislators, activists and influencers and start your campaign on pressing issues.



- Work with attorneys and activists who have led a successful fight against a pipeline.
- Meet policy makers and find out how environmental laws are made.
- Find out how activists are fighting for environmental justice.

## Green Architecture \$450

July 25 - 29

The key to a sustainable future lies in building in a way that minimizes our negative impact on the environment. Work one-on-one with award-winning green architects Michael Farewell and Jason Kliwinski to design your own environmentally friendly structures.



- Learn the basic principles, challenges and technologies associated with green architecture and building with renewable energy.

- Analyze existing structures on the Watershed Reserve to determine how they could be made more sustainable.

- Learn and use relevant architectural software and physical modeling to design a sustainable structure for a hypothetical client, and then present your project to professionals and municipal leaders.

- Visit to a sustainably built office and workshop and a walking tour of historic Lambertville to view architectural styles and learn how towns can be developed on waterways while integrating nature.



## Water and Climate \$450

August 1 -5

Join researchers from Princeton University's High Meadows Environmental Institute (HMEI) and discover the work they are doing to rebalance the water and carbon cycles.

- Meet experts in the field and learn about their cutting-edge research.
- Visit the laboratories at Princeton University where scientists are conducting climate and water research.



## Frequently Asked Questions

### *What are the hours of the Academy?*

Academy hours are from 9:00 a.m. to 4:00 p.m.

### *What if my student is sick?*

If your student or someone in the household is sick, please refer to our COVID-19 policies on the website regarding symptoms and attendance. If your student becomes unwell at camp you will be contacted to pick them up immediately.

### *What are you doing to ensure the safety of the students?*

We will be taking a number of measures to protect both the students and staff this summer. For a comprehensive list of the safety measures please refer to our COVID-19 policies on the website.

- COVID-19 vaccinations **are required** for all staff and participants.
- Outdoor Activities: Most of Academy and all meals will take place outdoors.
- Masks: Students and staff will wear face masks while in the building. Masks can be removed when staff and students are a safe distance apart. This will happen at meal times and periodically throughout the day.

### *What about the weather? Thunderstorms?*

Our goal is to remain outdoors, or under a tent whenever possible. During thunderstorms or other unsafe weather, we will take shelter indoors in our lab and library.

### *What is the dress code?*

- Dress for active outdoor activities – shorts, t-shirt, and closed-toe, hard-sole shoes
- Open-toe or soft-sole shoes (flip flops, crocs, and open-toed sandals are not allowed.
- Student will receive an Academy t-shirt on their first day. Students are required to wear the Academy t-shirt on field trips.

### *Do you serve meals?*

- Students may pre-order boxed lunches. These include a sandwich or wrap, chips, soda and fruit. The meal order form will be available in the spring.
- Students not ordering lunch must bring lunch daily. Bring a refillable water bottle. There is no place on site to purchase food or snacks.
- Please inform us of all food allergies when you complete the health profile. We do not exclude foods from the Academy. Students are instructed to clean their hands after eating to avoid contamination.

## Frequently Asked Questions continued

### *What do students need to bring?*

- Lunch, snacks and a refillable water bottle.
- Two properly fitting masks.
- Students may bring their own laptop, but it is not required.
- For Stream Science and Clean Water Academies, students will be standing in or near water. Please bring waterproof boots if you have them. We have some boots to lend. You might also want a change of clothing and a small towel in case you get wet.

**Please refer to our policy manual for more details.**