

A big blue
transformative
SUMMER
living & learning
at Phillips Academy

LOWER SCHOOL COURSE CATALOG
SUMMER 2022



REGULAR DAILY SCHEDULE

Summer Session—Lower School Institute (LSI)

| MONDAY | |
|--------------------|--|
| 7:00-8:45 a.m. | Breakfast available |
| 8:45-10:15 a.m. | Morning Class Block 1 |
| 10:30 a.m.-12 p.m. | Morning Class Block 2 |
| 12:00-1:00p.m. | Lunch |
| 1-2 p.m. | Free Time (<i>Options: Open Gym, Open Swim, Secondary School Placement Workshop</i>) |
| 2:30-3:30 p.m. | SSAT Class (<i>for those who registered</i>) |
| 3:30-4 p.m. | All-School/Cluster Meeting (chapel or cluster location) |
| 4-5 p.m. | Optional Clubs |
| 5-6:45 p.m. | Dinner available |
| 7:30-8:45 p.m. | Evening Class Block |
| 9 p.m. | Final Dorm Sign-in |
| 9-10:15 p.m. | Free Time/Prepare for Bed |
| 10:15-10:30 p.m. | Quiet Time |
| 10:30 p.m. | Lights Out |

| TUESDAY | |
|----------------------|---|
| 7:00-8:45 a.m. | Breakfast available |
| 8:45 a.m.-10:15 a.m. | Morning Class Block 1 |
| 10:30-12:00 p.m. | Morning Class Block 2 |
| 12:00-1:00 p.m. | Lunch |
| 1-2 p.m. | Afternoon Activities |
| 2:30-3:30 p.m. | SSAT Class (<i>for those who registered</i>) |
| 3:30-5 p.m. | Free Time |
| 5:00-6:45 p.m. | Dinner available |
| 7:30-9:00 p.m. | LSI Social Activity (<i>required for all</i>) |
| 10:15-10:30 p.m. | Quiet Time |
| 10:30 p.m. | Lights Out |

| WEDNESDAY | |
|---------------------|---------------------------|
| 7:00-8:45 a.m. | Breakfast available |
| 8:30 a.m.-5:00 p.m. | Academic Field Trip |
| 5-6:45 p.m. | Dinner available |
| 7:30-8:45 p.m. | Study Hours (in dorm) |
| 8:45-10:15 p.m. | Free Time/Prepare for Bed |
| 10:15-10:30 p.m. | Quiet Time & Lights Out |

| THURSDAY & FRIDAY | |
|--------------------|--|
| 7:00-8:45 a.m. | Breakfast available |
| 8:45-10:15 a.m. | Morning Class Block 1 |
| 10:30 a.m.-12 p.m. | Morning Class Block 2 |
| 12:00-1:00 p.m. | Lunch |
| 1-2 p.m. | Afternoon Activities |
| 2:30-3:30 p.m. | SSAT Class (<i>for those who registered</i>) |
| 3:30-5 p.m. | Free Time |
| 5-6:45 p.m. | Dinner available |
| 7:30-8:45 p.m. | Evening Class Block |
| 9 p.m. | Final Dorm Sign-in |
| 9-10:15 p.m. | Free Time/Get ready for bed |
| 10:15-10:30 p.m. | Quiet time |
| 10:30 p.m. | Lights Out |

| SATURDAY | |
|------------------|--|
| 7:00-8:45 a.m. | Breakfast available |
| 8:45-9:45 a.m. | Morning Class Block 1 |
| 10-11 a.m. | Morning Class Block 2 |
| 11 a.m.-2 p.m. | Lunch available |
| 1-6:00 p.m. | LSI Social Activity (<i>required for all</i>) |
| 7:30-10 p.m. | LSI Social Activity (<i>optional for day students</i>) |
| 10:15-10:30 p.m. | Quiet time |
| 10:30 p.m. | Lights Out |

| SUNDAY | |
|----------------------|-----------------------------------|
| 8:00-10:30 a.m. | Breakfast available |
| 10:30 a.m.-1:30 p.m. | Brunch available |
| 1 p.m.-6 p.m. | Optional Student activities/trips |
| 5-6:45 p.m. | Dinner available |
| 7:30-8:45 p.m. | Study Hours (in dorm) |
| 8:45-10:15 p.m. | Free Time/Get ready for bed |
| 10:15-10:30 p.m. | Quiet time |
| 10:30 p.m. | Lights Out |

Andover Summer 2022 Lower School Institute

Our Lower School Institute (LSI) is designed for rising 7th and 8th graders who are seeking a challenging, supportive summer academic experience. With 10 interdisciplinary course offerings, students in LSI have the opportunity to dive deeply into the rigorous study of a topic of interest, guided by nurturing teachers and residential staff in an environment that balances substantial structure with developmentally appropriate autonomy. While sharing the broader campus with their Upper School counterparts, LSI students live and study with their own middle-school-aged cohort, following a special LSI schedule that includes LSI athletics, evening classes and supervised study halls, and both academic and recreational off-campus trips. LSI-specific social activities are offered on campus on Tuesday and Saturday evenings.

During the application process, all students select a specific program to which they are applying. For students entering grades 7 and 8, the only available 5-week option is the Lower School Institute. **Students in LSI must select one interdisciplinary course** which meets daily for up to 5 hours (spread out across 3 academic periods: 2 in the morning, and one in the evening), and may add an additional, optional SSAT course or music lessons to be scheduled during their free times in the afternoons.

Please note that boarding and day students are required to attend all class sessions and mandatory LSI activities, including cluster meetings and evening class sessions.

In the pages that follow you will find the full range of possible LSI courses that are currently being offered for the summer of 2022. Please note that final course offerings are dependent upon enrollment and staffing, and courses with insufficient enrollment may be cancelled at any point prior to the start of the summer. Students enrolled in a course that is being cancelled will be notified and given the opportunity to enroll in an alternate course, based on what remains available at that time. Course enrollment is a first-come, first-served process, with our most popular courses and programs typically filling up in February or March each year. Additionally, changing public health conditions may require us to adjust our program schedule or course offerings, of which we will notify enrolled families via email and through our website.

Bridges to English: Connecting our Past and Present

Grade 7 and 8

Designed for non-native English speakers, the unique approach of *Bridges to English* offers a tour of early American history even as they experience hands-on 21st-century media production. New England's story is rich and distinctive: it was the birthplace of the American Revolution, and today it is home to cutting-edge technology in the bioengineering and computer science industries.

You and your fellow students will follow Boston's Freedom Trail, where the legendary Boston Massacre etched itself into history, and explore Old Salem Village, home of the chilling Salem witch trials. You also will read and discuss fiction, poetry, and nonfiction works dating from the Colonial period through today. The contemporary media curriculum component will allow you to examine today's most important topics through your own blogs and video journals. In five short weeks, you will journey some 300-plus years, improving your written and spoken English skills as you go.

Cartography: The Art, Science and Math behind Maps

Grade 7 and 8

How do you get from here to there? Where, exactly, is "here" and how do we know? Cartography, or mapmaking, dates back thousands of years, and its study involves a complex mix of math, art, science, and history. In this course, you will work to apply your understanding of the mathematical ideas of ratio, proportion, measurement, and scale, along with scientific concepts like geology and astronomy, as you read, analyze, and interpret maps from ancient to modern times. Cutting-edge scientific technology, including geolocation and satellite imagery, juxtaposed with an analysis of the many historic maps housed in the Oliver Wendell Holmes library, will provide you with a range of opportunities to hone your skills as a cartographer. You'll grapple with questions of power, authority, agency, and voice as you consider who made maps and for what purpose, while creating your own maps for display in the final Exhibition of Learning. This is an unparalleled opportunity for advanced study using the extensive resources of Phillips Academy's Addison Gallery and Knafel Map Collection and is not to be missed!

Charting the Natural World: Marine Biology Meets Math

Grade 8

Picture yourself standing in a shallow tide pool of clear ocean water on a warm, sunny day. Hear the rhythmic crashing of the surf in the distance. Flip over a small rock and notice the teeming life beneath. Now, reach into your pocket, pull out your beaker, and scoop up a water sample. This is just one of many authentic learning experiences you'll engage in during your summer at Andover in Charting the Natural World.

In this integrated math and biology institute, you'll explore and explain the local aquatic environment. You'll learn methods of gathering and analyzing data, drawing conclusions, and communicating results. Special excursions include a visit to Boston's New England Aquarium and a trip to local tide pools for a unique opportunity to apply your knowledge of marine organisms and sampling techniques firsthand. Investigate through science. Use the power of math to analyze. Join us in exploring the wonders of the ocean!

Students taking Charting the Natural World should not yet have completed a full year of algebra. If possible, students should bring a Texas Instruments TI-83 or TI-84 calculator.

CSI Andover: Anatomy of a Crime

Grades 7 and 8

A family—away for the weekend—has just been robbed! Neighbors awoke to the sound of shattering glass and called the police. The burglars ransacked the bedroom and stole a sack of jewelry, but their attempt to break into the safe was foiled: as police burst through the back door, the two masked suspects fled out the front door. But wait—it looks like one of the suspects tripped and hit his (or her?) head on a table. There's blood by the door! Plus, there are glass fragments to examine, fingerprints to check for, and possible footprints or tire tracks to make casts of and identify.

Crime scene investigators, grab your bags and head for Andover! Participate in blood spatter activities, stomach content analysis, toxicology experiments, entomology investigations, forensic anthropology studies, and much more. We will venture on weekly field trips and expand our investigations across Massachusetts in five fascinating weeks of forensic studies.

Dig This: Archaeology in Action

Grades 7 and 8

Do you know a real archeological artifact when you see one? Can you look at a reconstructed dig and recreate the life of its original inhabitants? History is about more than reading old documents. It is an opportunity to evaluate the evidence and decide for yourself what happened. By taking a closer look at some crucial episodes in the development of this country, you will hone your skills as a historian and archeologist and will begin to understand the dynamic interactions that took place between native peoples and European newcomers, which continue to shape the United States to this day.

Using the collections at the Academy's Robert S. Peabody Museum of Archeology, together with extensive library and internet materials, students will actively explore a series of case studies. The complexity of this nation's history unfolds from the early native settlements along the Merrimack River to the English colony at Plymouth, from the witch trials at Salem to the Indian raids at Deerfield, from the wars in the west between the plains tribes and the United States army. Field trips to nearby historical sites will bring these stories alive. Character studies of key figures in these stories will help students understand the minds and strategies of important individuals from some of the most important events in United States history.

In this course students will develop their critical thinking, reading, and writing skills to interpret the past, using a combination of traditional written sources, electronic sources, and the archeological record. This is a unique opportunity to witness history.

Express Yourself: A Study of Performance and Film

Grades 7 and 8

There are filmmakers, performance artists, and writers in all of us. In this institute, you will experience some of the many ways that we express ourselves, as human beings and as artists. You will develop skills in close reading, observation, reflection, and communication that will allow you to interpret your life in your own uniquely artistic ways.

Beginning with a study of literature, you will consider how human beings tell their stories through dramatic

and narrative texts, themes you'll then apply on stage or through film. In the performance component, you will engage not only in the role of performer, but also as director, designer, choreographer, and critic. You will stage scripted scenes as well as your own compositions. In the film portion of the course, you'll develop the basic technical skills needed to produce a short video. We'll supplement this work with visits to Boston theatres, production studios, and museums. Go ahead—express yourself!

Forests, Mountains, & Beaches: New England Field Ecology & Nature Writing

Grades 7 and 8

From the rocky shorelines of the Atlantic Ocean to the vistas of New Hampshire's White Mountains, the ecosystems of New England have inspired scientists and writers for hundreds of years. In this course, you will spend much of your time in the field and the laboratory, studying the habits and histories of local species of plants and animals, as well as how they interact, compete, and utilize natural resources. You will learn and apply techniques used by ecologists to collect, document, and store field data and specimens in order to gain a deeper understanding of ecological processes. Simultaneously, you will be reflecting on environmental issues and the natural world, drawing inspiration from your field studies to craft creative and reflective written pieces. Studying a range of authors, you will learn to develop your own voice and personal narrative style.

By opening up the classroom, exploring the environment, and studying seminal works by nature writers, this course gives you the opportunity to reflect on the relationship between nature and culture, as well as to explore your own connection to the natural world. Day and overnight field trips, lab studies, and cumulative written pieces are integral parts of the course experience, and you should come to campus prepared to get wet and muddy, to climb mountains and explore tidepools, to capture frogs and measure earthworms, among many other once-in-a-lifetime experiences!

Please note that this course has a multi-day overnight trip that is required for students enrolled in the course, with an additional \$300 camping fee associated with it.

High School Prep Institute

Grades 7 & 8

Want to make sure you are on track to build the skills you need to succeed in high school? This interdisciplinary institute is designed to provide middle school students of all ages a personalized pathway to academic success in math and English. Using baseline assessments, students will be provided with a customized set of learning goals and instruction, supporting both those who require remediation or are looking to accelerate. Focusing on close reading of nonfiction texts, analytical writing, and moving students to the next level of mathematical skills and content (regardless of their starting point), the *High School Prep Institute* will help students begin their journey towards secondary school readiness.

The Physics of Flight

Grades 7 & 8

How do wings lift an airplane into the air? How do drones hover perfectly and perform acrobatic maneuvers? How can the idea of flight inspire our artistic sensibilities?

These questions and more will be tackled over our five weeks together as we investigate how unmanned aerial vehicles (UAVs) are revolutionizing countless elements of our daily lives as a dynamic and emerging technology. As we consider the big questions of the impact of UAVs, we will also set out to design, build, and operate our own UAVS to gather information and data for analysis. In addition to data collection, you will learn to navigate obstacle courses and simulated emergency situations to hone your UAV skills. Not only will you have the opportunity to engage in applied math and physics, but there will also be a chance to develop your artistic skills as well. Through daily studio time, you will explore the idea of flight to create your own pieces of art (including some that fly!) Delve into the connections between art and science and get inspired by looking at the work of contemporary and historical artists who link the two disciplines. You will build your skills in various media and benefit from increased confidence in your own artwork. Your investigations into the science behind modern

planes and rockets, coupled with a chance to express yourself through art is an experience not to be missed!

Revolution! Continuity and Change in Our World

Grades 7 & 8

The themes of continuity and change will guide us as we explore two key turning points in U.S. history—the American Revolution and the Industrial Revolution. In a stimulating and highly interactive classroom setting, you will use your newly developed analytical thinking to examine the history and literature that led to dramatic changes in politics and everyday life in the 18th century. Actual trial documents—some biased, some conflicting—will help you and your classmates recreate on video the events of the Boston Massacre. You'll also partake in a re-creation of the debate on American independence.

Next, your class will consider the social impact of the Industrial Revolution from the perspectives of the consumers, industrialists, and workers who together made our modern world possible. Fast-forward to 2022 as you draft your own literary response to today's technological revolution. Two comparative projects will help connect the experiences of the American past with events going on throughout the world today.

LSI Afternoon Activity Offerings

Grades 7 & 8

- Basketball
- Dance
- Outdoor Games
- Power Walking and Running
- Soccer
- Yoga/Pilates