



YALE UNIVERSITY EDUCATIONAL PROGRAMS AND PARTNERSHIPS FOR NEW HAVEN YOUTH

Contributing to a Strong New Haven

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Message from the President



Yale University and the New Haven Public Schools share a deep commitment to education and the development of human potential. As neighbors, we have much to offer each other and much that we can do together to promote the vitality of our home, the City of New Haven.

New Haven public school students are welcomed to Yale throughout the year as the youngest members of our academic community. High school students take Yale college courses for credit, participate in world language classes, explore our shared cultural heritage through visits to the Yale museums, attend lectures on weekends, and conduct research in Yale laboratories through summer internships. In addition, Yale hosts students of all ages for concerts, museum visits, demonstrations, and other events. Yale faculty, staff, and students are actively engaged in these programs. As a primary sponsor of New Haven Promise, a visionary scholarship program, Yale has continued to reaffirm our shared stake in the strength of our community, promoting college access for New Haven students and furthering the development of a skilled workforce for the future.

The following pages detail the comprehensive programming that connects Yale to the young people of New Haven. I invite you to learn more about the individuals, places, and innovative programming that enrich the educational opportunities for all our students.

Sincerely,

A handwritten signature in black ink, reading "Peter Salovey". The signature is fluid and cursive, with the first name "Peter" and last name "Salovey" clearly distinguishable.

Peter Salovey
President
Chris Argyris Professor of Psychology
Yale University



Building Comprehensive School Partnerships



Being the oldest in my family, I am automatically a role model. Promise allows me to be the best role model I can be.

—Promise Scholar attending the University of Connecticut

Meaningful partnerships are the foundation of the work that we do. Recognizing that we all benefit by forming one community of learners, our partnership with New Haven Public Schools is founded on the goals of promoting access, enhancing communication, sharing resources, and mutual learning.

As a preeminent research university, Yale is in a unique position to offer high-quality pre-college STEM programming to students in our community. Pathways to Science, Yale's coordinated STEM outreach initiative, provides an overarching infrastructure for the various STEM programs and events at Yale that reach thousands of K–12 students each year.

Now entering its third year, Yale Pathways to Arts & Humanities has welcomed more than 300 New Haven public school students to Yale's campus for more than a dozen new arts and humanities programs and events.

In 2010, the university committed to be the primary sponsor of New Haven Promise, a visionary scholarship and support program that promotes college education for New Haven students. Through New Haven Promise, eligible New Haven public school students receive a full scholarship for either tuition to any Connecticut public college or university, or a partial scholarship toward a private university education.

BY THE NUMBERS New Haven Promise

345

Promise Scholars in the 2019 cohort of high school graduates, an increase of 120% since 2011

35,000

Total community-service hours completed by the 2019 Promise Scholars cohort

17%

Increase in New Haven public school enrollment since New Haven Promise began, reversing a five-year decline

1,900

New Haven students have received more than \$16.5 million from New Haven Promise

SPOTLIGHT ON Cooperative Arts and Humanities High School Partnership



Yale University's partnership with the Cooperative Arts and Humanities High School (Co-Op), an interdistrict magnet high school located in the heart of New Haven, aims to forge relationships between Co-Op students, teachers, and local arts institutions and thereby foster a local community of artists. Through the partnership, visual arts students attend weekly classes at the Yale University Art Gallery for lessons led by graduate-student gallery guides; world history students examine cuneiform tablets at the Babylonian Collection; and music students

receive training from world-class musicians from the School of Music. Moreover, Cooperative Arts and Humanities High School Partnership visiting artists—professional actors, playwrights, photographers, dancers, and novelists—come to Co-Op to perform and to lead master classes. In partnership with the Beinecke Library, winners of the Windham Campbell Literature Prizes also visit Co-Op annually to take part in a panel discussion moderated by students and to lead workshops for aspiring writers at the school.

ACADEMIC YALE UNIVERSITY COLLEGE COURSES

Qualified New Haven, West Haven, and Amity high school juniors and seniors who have been selected by their schools can enroll in Yale academic courses. Participating students receive a full scholarship to cover tuition costs. This program provides an opportunity for high school students to experience a collegiate academic setting and earn credits which may then be transferred to the college of their choice following high school graduation.

ANATOMY TEACHING PROGRAM

Yale medical students and faculty teach an anatomy class to Hill Regional Career High School students. Juniors and seniors enrolled in anatomy and physiology courses visit the Yale Medical School twice per month to access the lab facilities. Lab activities range from observing a cadaver dissection to using slides and microscopes in the histology laboratories.

CELENTANO BIOTECH, HEALTH, AND MEDICAL MAGNET SCHOOL & BISHOP WOODS ARCHITECTURE AND DESIGN MAGNET SCHOOL PARTNERSHIPS

Yale's partnerships with Celentano School and Bishop Woods School are designed to supplement the schools' efforts in implementing biotech, health, architecture, and design magnet themes.

COOPERATIVE ARTS AND HUMANITIES HIGH SCHOOL PARTNERSHIP

Now in its tenth year, Yale's partnership with Cooperative Arts and Humanities High School aims to enrich the artistic and educational experiences of students and teachers by developing meaningful collaborations between the Yale and Co-Op communities. The partnership is supported by stakeholders across the university, including the Beinecke Library, the Yale University Art Gallery, the Yale Center for British Art, and Dwight Hall at Yale.

DWIGHT HALL AT YALE, CENTER FOR PUBLIC SERVICE AND SOCIAL JUSTICE

Dwight Hall is an umbrella community-service organization featuring more than 90 student-managed groups that engage Yale University students in contributing more than 150,000 hours of direct service each year, in tutoring, mentoring, youth development, and advocacy.

dwiththall.org

DWIGHT HALL PUBLIC SCHOOL INTERNSHIP PROGRAM

Students in the Public School Internship Program serve a critical role as liaisons between New Haven public schools and the Yale community by strengthening current volunteer efforts and finding new ways to match resources at Yale with the needs of each school. Interns act as tutors or classroom assistants as well as providing special programming to enrich current classroom lessons. Interns are placed at 12 New Haven elementary, middle, and high schools and work closely with school leaders to discuss the role of Yale volunteers. The program is sponsored by the Office of New Haven Affairs.

dwighthall.org/dwight-hall-public-school-interns

FIRST ROBOTICS: FOR INSPIRATION AND RECOGNITION OF SCIENCE TECHNOLOGY

Hill Regional Career High School students—assisted by local companies, Yale students, and volunteers—design, assemble, and test a robot capable of performing a specified task in competition with other teams. The program demonstrates to students the fun and competitive spirit that can exist in science, technology, engineering, and mathematics.

HILL REGIONAL CAREER HIGH SCHOOL PARTNERSHIP

The Yale partnership with Hill Regional Career High School, a health-sciences magnet school in New Haven, provides high school students access to Yale classes, laboratories, and structured internships. For example, the Yale Simulation Academy Program invites sophomores to the state-of-the-art Center for Medical Simulation to practice hands-on medical treatments in weekly sessions each fall. Juniors who have graduated from the program serve as peer mentors.

NEW HAVEN PROMISE

Yale is a founding and primary sponsor of New Haven Promise, the only scholarship program of its kind in Connecticut. Promise provides scholarships for New Haven residents who are graduates of New Haven public schools and selected charter schools. Students meeting certain achievement, attendance, community service, and disciplinary requirements are eligible for either full tuition for in-state public colleges or a partial scholarship for in-state private colleges. Since the program's inception, more than 1,600 New Haven students have pursued higher education with a Promise scholarship. A key to New Haven's future, Promise is revitalizing the city of New Haven by increasing educational attainment, cultivating

a culture of college readiness, and promoting community and parental engagement. Yale University contributes up to \$4 million annually to provide Promise scholarships to New Haven graduates.

newhavenpromise.org

PATHWAYS TO SCIENCE

With an overarching goal to encourage and support promising young scholars to pursue careers in science, technology, engineering, and math, Yale Pathways to Science opens the door for middle and high school students to explore STEM at Yale University. The more than 1,600 Pathways students are considered the youngest members of Yale's scientific community and are invited throughout the year to special events, academic lectures, demonstrations, hands-on activities, summer programs, and research opportunities. Once accepted into the program, students are invited to attend more than 130 different programs and events annually through their high school graduation and beyond, choosing to participate in the opportunities that interest them most.

yale.edu/scienceoutreach

PATHWAYS TO ARTS & HUMANITIES

Since its inception in fall 2017, Pathways to Arts & Humanities has welcomed hundreds of New Haven public high school students to Yale's campus for dozens of arts and

humanities programs and events. Programs include: MOSAIC, New Voices in Theater, spoken word poetry workshops, museum visits, and much more. Yale Pathways to Arts & Humanities explores how humans use literature, art, music, theater, history, and language to understand our connection to the world and to one another. Programs encourage creativity, help solve real-world problems, and allow students to become civically engaged both locally and globally.

onhsa.yale.edu/ah

YALE READING CORPS

Through the Yale Reading Corps, Yale undergraduate and graduate students serve as teaching assistants in classrooms at Wexler-Grant School. Fully integrated into the educational environment, the Yale students serve for several hours a week by supporting class activities, working with individual or small groups of students. In addition, the program supports the school's literacy efforts by sponsoring book fair events, which allow students to expand their home libraries. Through Yale Reading Corps, Yale undergraduate and graduate students also serve as reading tutors and mentors at New Haven Reads, which also provides one-on-one after-school tutoring, educational family support, and a community book bank.

<http://newhavenreads.org>





Coordinated STEM Outreach



Through Pathways to Science, I realized I want to pursue a career in chemistry! Pathways to Science helped me see myself as a scientist and connected me with people in the field that could help me pursue this career path.

- Yale Pathways to Science student

Yale is committed to making our community a national leader in STEM education, with the goal of increasing the number of students from the greater New Haven area who attend college and complete a degree in a science, technology, engineering, or mathematics field. Our strong relationship with our neighbors in local public school districts has created a unique opportunity for us to build a programmatic model to inspire the next generation of scientists.

Through Yale Pathways to Science, more than 1,600 students in grades 6–12, hailing from New Haven, West Haven, and Amity public schools, are invited to events and programs on Yale's campus, gaining behind-the-scenes access to science laboratories and exploring

firsthand the new frontiers in scientific research.

Engaging in hands-on tasks and experiments with faculty, graduate students, and undergraduates, these students are considered the youngest members of Yale's scientific community. Representing a coordinated, data-driven approach to science outreach, Pathways to Science has built a coalition across science departments that is dedicated to helping young scholars achieve success in science.

Students are invited to more than 150 free programs and events each year, which, through hands-on activities, demonstrations, lectures, and research opportunities, foster curiosity and support students in honing the skills necessary for scientific inquiry.

Events and programs encourage students to explore multiple areas of STEM and learn about the cutting-edge research in each field. Examples include: Chemistry Magic Show, Engineering Day, Brain Education Day, and Ophthalmology Day. At these events, students tour Yale laboratories and meet professors and students who lead Pathways students in hands-on inquiry-based activities that emphasize discovery, critical thinking, and problem solving. Pathways to Science students are supported through high school and beyond with tailored enrichment programs that prepare them for college success in STEM majors.

SPOTLIGHT ON EVOLUTIONS

The EVOLUTIONS after-school program began at the Peabody Museum in spring 2005 and now serves nearly 100 New Haven and West Haven high school students each year. The majority of these students participate in the program throughout all four years of high school, and more than half of students will be the first in their families to attend college.

The EVOLUTIONS program also supports students to pursue summer internships in research laboratories, where students delve into fields

ranging from vertebrate paleontology to geochemistry. A high school junior described the program: "EVOLUTIONS is really about the community that it provides, the friends and mentors that it gives you, a place to call home. It creates a web of support for you. It's the experience of learning and growing with these people, making connections and gaining life-long friends. The support also makes you feel as if you could accomplish anything, whether it be getting into the college of your dreams or achieving your career goals."



BY THE NUMBERS Yale Pathways to Science

155

Annual programs and events for Pathways to Science students

991

Yale faculty, students, and research scientists involved in coordinated STEM outreach programming efforts this year

1,669

Students currently enrolled in Yale Pathways to Science

62,026

Combined hours spent in STEM outreach programming and internships by Pathways students in the 2018–2019 school year

ACADEMIC YALE UNIVERSITY COLLEGE COURSES

Qualified New Haven, West Haven, and Amity high school juniors and seniors who have been selected by their schools, can enroll in Yale academic courses. Participating students receive a full scholarship to cover tuition costs. This program provides an opportunity for high school students to experience a collegiate academic setting and earn credits which may then be transferred to the college of their choice following high school graduation.

ANATOMY TEACHING PROGRAM

Yale medical students and faculty teach an anatomy class to Hill Regional Career High School students. Juniors and seniors enrolled in anatomy and physiology courses visit the Yale Medical School twice per month to access the lab facilities. Lab activities range from observing a cadaver dissection to using slides and microscopes in the histology laboratories.

BRAIN BEE

For students in grades 8–12, Yale's annual Brain Bee is a free neuroscience competition that tests students' understanding how the brain functions. Competing students can flex their brain knowledge to win prizes as groups or as individuals. After the competition, students interact with Yale neuroscience majors and hear neuroscience talks from Yale faculty. yalebrainbee.wixsite.com

CANCER RESEARCH OPPORTUNITIES FOR YOUTH

Cancer Research Opportunities for Youth (CROY) provides New Haven Pathways to Science high school students with hands-on

experience, mentoring, and collaboration within the cancer-research pipeline. These laboratory internships embed students within research teams engaged in all aspects of cancer research including immunology, prevention and control, genetics and epigenetics, radiobiology and radiotherapy, and developmental therapeutics. campuspress.yale.edu/croy

CODE HAVEN

Code Haven is an undergraduate student organization at Yale University dedicated to introducing students to computer science at a young age. Every week, Yale students teach computing lessons at six schools in the New Haven district, engaging middle school students with online lessons, group activities, and classroom-wide demonstrations. codehavenyale.com

CODE HAVEN TEACHTECH

TeachTech is Code Haven's one-day conference for middle and high school teachers interested in incorporating computer science into their classrooms. Teachers learn about computer science fundamentals, how to demonstrate these concepts to students in an engaging way, and basic software that they can implement in their classrooms to make CS more appealing to students. codehavenyale.com/join-teachers

CODEBOOLA

CodeBoola is a one-day "learnathon" for high school students held at Yale. Students participate in workshops on CSS, JavaScript, and entrepreneurship. The event is open to students with all levels of programming

experience and is hosted by YHack, a Yale student organization that hosts an annual hackathon for 1,000 undergraduate students from across the country.
codeboola.yhack.org

CT SEED

Hosted by Graduate Student Women Engineers, Connecticut Students Exploring Engineering Day (CT SEED) is an introduction to engineering for students from across Connecticut. Middle school students are invited to Yale's campus for a day of hands-on engineering activities and panel discussions on what it's like to be an engineer. Parents are also invited to join for an information session about supporting their children's interest in potential STEM careers.

CUSHING CENTER AT THE YALE SCHOOL OF MEDICINE

Named in honor of the father of modern neurosurgery, Yale graduate Dr. Harvey Cushing, this exhibit includes more than 400 specimen jars of patients' brains and tumors, surgical illustrations, personal diaries, photographs, and memorabilia. Cushing's collection of more than 15,000 volumes in science and medicine contains medical and scientific works ranging from 11th-century manuscripts through 19th-century monographs. The Cushing Center offers weekly tours of the collection and is open to the public.
cushingcenter.medicine.yale.edu

DEMOS

Yale undergraduate student volunteers teach weekly science classes at eight local New Haven elementary schools, using provocative demonstrations and hands-on activities to teach basic science principles. The Demos group also leads StarLab, which presents basic astronomy in a mobile planetarium at a number of events on campus.
yale.edu/demos

DESIGN FOR AMERICA

Design for America (DFA) is a national organization with chapters in universities throughout the country. Made up of a diverse group of graduate and undergraduate students, DFA teaches design concepts through hands-on projects that aim to improve the New Haven community. DFA also holds workshops for local students focused on human-centered design, where they work in groups to design and build product prototypes.
dfayale.com

ENGINEERING EXPLO

At Engineering Explo, GradSWE (Graduate Student Women Engineers) invites Pathways middle school students to discover the marvels of engineering. At this fair-like event, students and families grab a "passport" and explore mechanical, electrical, biomedical, chemical, and environmental engineering through hands-on activities and demonstrations.

EVOLUTIONS

The Yale Peabody EVOLUTIONS Program (EVOKing Learning & Understanding Through Investigations Of the Natural Sciences) engages high school students in informal learning and work opportunities throughout all four years of high school. Students spend at least one day per week after school learning about science, preparing for college, developing job skills, and making new friends. Participants spend hundreds of hours each year as exhibit developers, museum interpreters, research interns, and students. Through weekly classes, monthly events, and field trips, EVOLUTIONS is designed to increase science literacy, provide college preparation, develop career awareness, and promote transferable skill development. Each year, EVOLUTIONS students produce an exhibition that is installed in the museum and work as science interpreters through the SciCORPS youth employment program—a select group of EVOLUTIONS students are also offered paid internships in Yale science laboratories.
evolutions.peabody.yale.edu

FIRST ROBOTICS: FOR INSPIRATION AND RECOGNITION OF SCIENCE TECHNOLOGY

Hill Regional Career High School students—assisted by local companies, Yale students, and volunteers—design, assemble, and test a robot capable of performing a specified task in competition with other teams. The program demonstrates to students the fun and competitive spirit that can exist in science, technology, engineering, and mathematics. This program is part of Yale's partnership with Hill Regional Career High School.

FLIPPED SCIENCE FAIR

The Flipped Science Fair, hosted by Yale Science Diplomats, flips the traditional science-fair format on its head: middle school student judges evaluate graduate students and post docs presenting their current research. Middle school students learn about cutting-edge research from real Yale scientists in a small-group setting, with plenty of opportunities to ask questions and participate in hands-on demonstrations. The presenters learn how to tailor their research pitch to a general audience, with emphasis on keeping things exciting, understandable, and relevant.
sciencediplomats.sites.yale.edu

FORESTRY & ENVIRONMENTAL SCIENCE RESEARCH DAY

Research Day is an annual scientific conference at the Yale School of Forestry & Environmental Studies. Scientists present their work on environmental topics ranging from how air pollution impacts our health to grasshopper personality to the consequences of littering! The event uses multiple formats, including describing research using only the 1,000 most common words in the English language, poster presentations, and more. Ten Pathways high school students are invited as the youngest members of the conference.

FUNBOTICS

Yale Funbotics is a seven-session workshop where Pathways middle school students build robots in teams with guidance from Yale College students. The series is designed to teach core engineering skills, team building, critical thinking, and problem solving while having FUN! At the end of the program, students and their newly-built robotic creations face-off in a cone-stacking competition.

GIRLS' SCIENCE INVESTIGATIONS (GSI)

Girls' Science Investigations is a program that empowers girls in science by giving them both guidance and hands-on experience. On four Saturdays throughout the year, GSI runs theme-based programs for middle school girls to encourage them to pursue careers in science. Recent program themes have included "The Electromagnetic World" and "The Robotic World." Yale University professors and students teach the programs, conduct demonstrations, and lead the girls in hands-on activities in laboratory environments.
gsi.yale.edu

GRADUATE STUDENT WOMEN ENGINEERS

GradSWE at Yale is part of the Society of Women Engineers, an international organization committed to promoting women in engineering. Together with Pathways to Science, GradSWE runs numerous Engineering Days for middle and high school students throughout the year. The goal of Engineering Day is to show attendees that learning a new skill to a level that lets them build a real robot or conduct a true scientific experiment does not need to be intimidating. You do not need to be a physician to start tinkering with medical devices, nor do you need to be a programmer to automate a small task in your daily life. Past projects include programming a self-watering garden and building an air-quality monitor.
engineeringday.com

GREEN CAREERS, WOMEN LEADERS

Green Careers, Women Leaders is an annual day-long conference for high school girls hosted by graduate students at the Yale School of Forestry & Environmental Studies. Girls have the chance to interact with entrepreneurs and leaders from the fields of renewable energy, clean water, sustainable food, health and wellness, urban planning, ecology, environmental justice, and architecture. Individual sessions during the day include an exercise in environmental writing and discussions about green architecture and environmental justice.
yale.edu/scienceoutreach

HAVE BONES, WILL TRAVEL

Have Bones, Will Travel is a program offered to elementary, middle, and high schools in New Haven. The program aims to foster science enthusiasm and interest in the nursing profession. Volunteers from the Yale School of Nursing teach students about the marvels of

human anatomy through engaging hands-on activities while emphasizing the importance of decisions that can affect their long-term health. nursing.yale.edu/have-bones-will-travel

HEALTH PROFESSIONALS RECRUITMENT AND EXPOSURE PROGRAM (HPREP)

HPREP is a pipeline program under the auspices of the Student National Medical Association and Latino Medical Student Association at Yale. HPREP aims to provide students with the skills and necessary resources to succeed in the college-application process by providing instructional classroom sessions, workshops, and one-on-one meetings. By the end of the program, each student will have drafted and edited their first college essay and successfully completed a health-related research project and oral presentation.

medicine.yale.edu/dice/diversity/pipeline/hprep.aspx

JULIA ROBINSON MATH FESTIVAL

The Julia Robinson Math Festival inspires students to explore the richness and beauty of mathematics through activities that encourage collaborative and creative problem-solving. At the festival, students choose from more than a dozen tables where volunteers, who come from various disciplines at Yale but are all lovers of mathematics, guide students through a set of intriguing math problems and puzzles, supporting students as they work together.

jrnf.org

LEITNER FAMILY OBSERVATORY AND PLANETARIUM

The Leitner Observatory is a facility of the Yale Department of Astronomy. The planetarium is used to teach astronomy concepts to undergraduate classes, to support astronomy programs at the Peabody Museum of Natural History, and to present planetarium shows to the general public. The planetarium and observatory are open to the public every Tuesday night.

leitnerobservatory.yale.edu

MARSH BOTANICAL GARDEN

Sitting on eight acres, with six greenhouses that make up around a third of an acre under glass, Marsh Botanical Garden offers support for researchers, faculty, and students at Yale, as well as an informative and eye-catching experience for visitors. Marsh Botanical Garden also hosts the monthly "Green Café."

marshbotanicalgarden.yale.edu

MATHCOUNTS

MATHCOUNTS is a national middle school math enrichment program. Yale students lead weekly after-school sessions for students at New Haven, West Haven, and Hamden schools. Yale coaches use applied and creative problems to inspire students to see math as an exciting and ever-present part of the world and to prepare students for a district-wide showcase in the spring.

mathcounts.org

NEW HAVEN SCIENCE FAIR

The annual New Haven Science Fair offers mentoring for students and professional development for teachers on investigative hands-on science-fair projects that promote scientific skills and research communication. This year, more than 8,000 New Haven students and 43 schools participated, utilizing more than 160 volunteers for mentoring and judging. Yale community members make up more than 80% of the judges and mentors in the program.

nhsciencefair.org

NEWT CAFÉ

The Nanotechnology-Enabled Water Treatment Center (NEWT) is a multi-university collaboration that aims to make the production of clean water more sustainable and cost effective. Yale graduate students involved with the center host an annual event that brings Pathways students to campus to learn about how scientists utilize nanotechnology to enhance water-treatment methods. Through hands-on demonstrations and short talks, students learn how these issues are related to their daily lives.

yale.edu/scienceoutreach

NEWT HIGH SCHOOL LABORATORY INTERNSHIPS

The Nanotechnology-Enabled Water Treatment Center (NEWT) invites Yale Pathways high school juniors to work in their laboratories for a six-week intensive summer research internship. Students work directly with graduate students and faculty on projects related to the production of clean water technologies.

OPEN LABS AND SCIENCE CAFÉ

Yale Open Labs and Science Café hold events exclusively for students in Yale Pathways to Science. At each Science Café, a group of three Yale graduate students present their research in 12 minutes or less, while audience members enjoy cookies and hot cocoa. Following the talks, graduate students mingle with audience members, available to answer questions about their research, their field of study, and their educational experiences. Also included are hands-on science demonstrations. Past talks and hands-on activities have included "Why Earth Has Water" and "How Our Brains Encode Memories."

theopenlabs.org/yale

PATHWAYS TO SCIENCE

With an overarching goal to encourage and support promising young scholars to pursue careers in science, technology, engineering, and math, Yale Pathways to Science opens the door for middle and high school students to explore STEM at Yale University. The more than 1,600 Pathways students are considered the youngest members of Yale's scientific community and are invited throughout the year to special events, academic lectures, demonstrations, hands-on activities, summer programs, and research opportunities. Once accepted into the program, students are invited

to attend more than 130 different programs and events annually through their high school graduation and beyond, choosing to participate in the opportunities that interest them most.

yale.edu/scienceoutreach

PATHWAYS BRAIN EDUCATION DAY

Brain Education Day is an annual neuroscience event for 100 students in Yale Pathways to Science. Students explore the brain with Yale's top neuroscientists and students, tour Yale science laboratories, and learn brain anatomy through specimen dissection. Students also observe electrical signals from organisms, learn about modern neuroimaging techniques by visiting a mock fMRI scanner, and control a robotic claw using electrical activity produced by their own muscles.

PATHWAYS BUILDING A BATTERY WITH NANOMATERIALS @ THE YALE ENERGY SCIENCES INSTITUTE

Pathways high school students are invited to the Energy Sciences Institute at Yale's West Campus to tour its state-of-the-art laboratories and learn how science can solve contemporary energy challenges. At the event, students build their own batteries and learn how nanomaterials are used in battery production.

PATHWAYS DISCOVER CHEMISTRY DAY

At Discover Chemistry Day, Pathways high school students take part in hands-on chemistry experiments that encourage inquiry, examination, and extrapolation. Students might work with a gas chromatographer, separate caffeine from tea, engage in simulations of receptor-binding molecules that give rise to our sense of smell, and much more. This annual event is hosted by the Department of Chemistry.

PATHWAYS ENGINEERING DAYS

Hosted by GradSWE, Engineering Days bring middle or high school students in Yale Pathways to Science to tour laboratories and try their hands at an engineering design build. Past Engineering Days have included building an air-quality monitor, a bionic arm, and a self-watering garden.

PATHWAYS ENVIRONMENTAL CAFÉ

The Environmental Café brings Pathways high school students to the Yale School of Forestry & Environmental Studies (FES) to listen to short talks about new and exciting work in the department. Graduate students from FES also provide hands-on workshops related to the café talks. Previous topics have included how scientists use X-rays to study plant evolution, how to 3D print a flower, and how drones are used in forest management. Students are also invited

to attend the annual School of Forestry & Environmental Studies Research Day.

PATHWAYS EXPLORING THE INTERSECTION OF PHYSICS, ENGINEERING & BIOLOGY

An annual event for Pathways middle school students, Exploring the Intersection of Physics, Engineering & Biology allows students to interact with Yale scientists working at the intersection of these fields. Students learned how to build a balloon-powered car and watched demonstrations such as "Fluorescence: Glowing in Science" and "Viewing the Nanoscopic World."

PATHWAYS GENETICS DAY

Genetics Day brings Pathways middle and high school students to explore genetics in a full day of hands-on demonstrations, lab tours, mini-talks, and more. Students are guided by Yale faculty and students in activities that explore the science behind CRISPR, 23andme, GMOs, and model organisms.

PATHWAYS HEALTH CAREERS DAY: A DAY IN THE LIFE

Hosted by the Yale Pediatrics Residency, Pathways to Science students are invited to experience a day in the life of various health-career professionals, including physicians, nurses, physical therapists, dentists, and more. Each rotation includes an engaging activity related to the profession, as well as information about how to pursue that career in the longterm. In the past, students have learned how to check vitals, perform CPR, and recognize basic elements of physical therapy.

PATHWAYS OPHTHALMOLOGY DAY

Aimed at increasing interest in ophthalmology, Pathways students are invited for a full day of hands-on learning about the eye. Students travel into the eye using virtual reality devices, are trained on slit lamp machines, and try their hand at cow-eye dissection. This event is hosted by the Yale Department of Ophthalmology & Visual Science and the Yale League of Black Scientists.

PATHWAYS PLAY CAFÉS

Hosted by the Yale Center for Health & Learning Games and the play2PREVENT Lab, Pathways middle and high school students are invited to explore how video games can be used to change the way people think and act. Students learn how games are created, why they are important, and how doctors, mathematicians, and scientists use them for their jobs. Students also play games created by the play2PREVENT lab.
play2prevent.org

PATHWAYS REPRODUCTIVE PHYSIOLOGY DAY

Pathways high school students are invited to discover the science of reproduction with Yale Medical School faculty. Students use microscopes to identify different cells of the reproductive tract, as well as learn

the differences between human and other mammalian reproduction.

PATHWAYS SUMMER SCHOLARS PROGRAM

The Pathways Summer Scholars program brings 100 high school students from New Haven, West Haven, and Amity public schools to study science for two weeks on Yale's campus. The goal is to prepare motivated and academically promising students for success in college and to strengthen their ability to pursue science majors and careers. Summer Scholars provides an intensive, hands-on science curriculum that emphasizes discovery, critical thinking, and problem solving. Rising seniors have the opportunity to live on campus during the program and engage in a variety of college-prep enrichment activities. The curriculum is designed by Yale University faculty, graduate and professional students, as well as teachers from local public schools. Yale students serve a vital role as teaching assistants and mentors.

pathwayssummerscholars.yale.edu

PATHWAYS TO ENVIRONMENTAL ENGINEERING: MONITORING CONNECTICUT'S AIR QUALITY

In this 3-part workshop, Pathways to Science high school students build simple air-quality monitors to track the concentration of ozone, carbon dioxide, volatile organic compounds, and particulate matter. The program includes a field trip to the Yale Coastal Field Station, an air-quality monitoring site, where students can deploy their monitors and learn about how researchers measure air pollution along the coast, as well as how the air quality in Connecticut compares to nearby states.

PATHWAYS TO SCIENCE FESTIVAL @ WEST CAMPUS

Pathways middle and high school students are invited to this annual festival at Yale West Campus for a full day of lectures, hands-on demonstrations, student panels, science exploration games, and tours of the state-of-the-art West Campus facilities. The event invites 150 Pathways students to explore Yale West Campus with the guidance of more than 50 Yale scientists and students. Past themes for the festival include "Microbes - The Good, The Bad, and The Ugly" and "Colors & Dyes in Science."

PATHWAYS WRIGHT LABORATORY TOUR

Pathways students get a behind-the-scenes look at the Wright Laboratory and undertake hands-on activities that reveal how Wright Lab researchers can make the invisible visible. The Wright Lab is advancing frontiers of physics through a broad research program in nuclear, particle, and astrophysics. Wright Lab has been transformed to house a unique combination of state-of-the-art research facilities, technical infrastructure, and interaction spaces.
wlab.yale.edu

PEABODY MUSEUM OF NATURAL HISTORY

From dinosaurs to diamonds, the Yale Peabody Museum of Natural History presents four billion years of Earth's history under one roof. It houses a diverse collection of 13 million objects that includes Egyptian mummies, samurai swords, and animals and plants from across the world. The museum's paleontological collections rank among the most historically important fossil collections in the world. Not only can these collections be accessed by visiting the museum, but the Peabody's substantial online catalog makes digital images of more than 163,000 specimens, artifacts, and objects available to scholars and the public around the world.

peabody.yale.edu

PEABODY MUSEUM ANNUAL EVENTS

Each year, the Peabody Museum hosts several public events, most notably the annual Dr. Martin Luther King, Jr.'s Legacy of Environmental and Social Justice event in January, Summer's Last Roar in August, and Fiesta Latina! in October. These events are free and open to the public and draw more than 8,000 people to the museum. The Peabody Museum also sponsors numerous lectures and talks throughout the year.

peabody.yale.edu/events

PEABODY MUSEUM GUIDED TOURS FOR K-12 SCHOOL GROUPS

Each year, the Peabody Museum provides educational programs on biology, paleontology, geology, ancient civilizations and social studies to more than 25,000 students from Connecticut, Massachusetts, New York, and Rhode Island. All programs draw on the museum's exhibits to meet the increasingly sophisticated needs of science and social studies education and most can be adapted to accommodate specific group needs as requested. Guided programs are free for New Haven and West Haven public schools from September through March.

peabody.yale.edu/education/school-group-visits

PLAY2PREVENT LAB

FORAGIRL PROGRAM

Part of the Yale Center for Health & Learning Games at the Yale School of Medicine, Play2PREVENT focuses on the use of video-game play for the purposes of health promotion, risk reduction, social good, and educational interventions. ForAGirl engages female Pathways high school students in a two-week summer research training in developing effective video-game interventions that target areas in which girls and women are disproportionately affected. Female Yale faculty members provide guidance and mentorship.
play2prevent.org/about-us/foragirl-program

RESONANCE

Resonance is an annual event hosted by Yale Synapse that brings high school students to Yale's campus for a day of hands-on demonstrations, presentations by Yale professors, and tours of Yale's science facilities.

SPOTLIGHT ON Girls' Science Investigations



Girls' Science Investigations (GSI) aspires to motivate, empower, and interest girls in developing the skills they need to pursue careers in science, aiming to close today's gender gap in science achievement. A free program for middle school girls, GSI holds four Saturday sessions each year, with each session attracting more than 150 attendees. In discovery-based lessons led by Yale professors and graduate students—with help from high school students who participated in GSI as

middle schoolers—girls explore topics such as “The Electromagnetic World” and “The Robotic World.” All activities are designed to help students visualize the concepts they are studying through highly engaging demonstrations and hands-on experiments in a laboratory environment. Girls gain confidence in their abilities to become scientists and begin to imagine their own future as part of the scientific community.

Breaking away from traditional scientific teaching, Resonance presents science in a way that is applicable to students' daily lives and future goals.
campuspress.yale.edu/yaleresonance

SCI.CORPS

Sci.CORPS (Science Career Orientation & Readiness Program for Students) is a program open to students who have participated in the Yale Peabody EVOLUTIONS program for at least two years. After a period of training and community service, participants receive paid work experience as science interpreters in the Peabody Museum. SciCORPS staff work at interpretive carts, at craft stations, and in the Discovery Room. In the 2017-18 academic year, SciCORPS staff provided nearly 5,000 hours of educational experiences to Peabody Museum visitors.
evolutions.peabody.yale.edu

SCIENCE HAVEN

Science Haven is a collaboration between Open Labs, Yale Science Diplomats, and New Haven neighborhood leaders designed to engage Yale graduate students more deeply in their neighborhoods through hands-on science demos at community gatherings. Through attending neighborhood leadership meetings and connecting with families, Science Haven aims to inspire students to pursue a career in science and to help adults to see scientists as approachable. By putting a face to the lab coat, Science Haven hopes to foster a sense of trust between residents and their neighborhood scientific community.

SCIENCE IN THE NEWS

Science in the News is a series of fun lectures given in the spring by Yale graduate students

in the sciences. Past lecture topics have included “What You Should Know about Antibiotics,” and “Our Future in the Cosmos.” The series is organized and hosted by the Yale Science Diplomats, a campus group devoted to educating the public about science issues that affect them and encouraging scientists to become engaged in the political process.
sciencediplomats.sites.yale.edu

SCIENCE ON SATURDAYS

This award-winning lecture series features scientists whose passion for their work inspires us all. Each event involves a lecture by a Yale professor and engaging science demonstrations by Yale college students. Science on Saturdays provides an opportunity for Yale scientists and residents of New Haven and beyond to come together over a shared sense of wonder. Past topics have included “Peering into the Dark Side of the Universe” and “Exploring the Arctic Ocean to Understand Climate Change.”
onhsa.yale.edu/science-saturdays

SHECODE

SheCode aims to lower the barriers for girls participating in computer science and to foster an interest in innovative technology and problem solving by teaching programming skills to young girls in a highly supportive environment. Through SheCode, Yale undergraduates teach New Haven middle and high school girls in Yale Pathways to Science how to create basic programs using Scratch, CSS, and Python.
shecodeat Yale.wordpress.com

SPLASH AT YALE

Splash at Yale is a biannual event that brings local middle and high school students to Yale University for one day of unlimited

learning. Students take classes taught by Yale undergraduate and graduate students in a variety of both conventional and unconventional subjects. Students get to learn about things that they normally would not have access to, empowering them to find what they love to learn, discover new career opportunities, and become tomorrow's leaders. Splash at Yale also hosts Sprout!, a similar program that gives students the opportunity to delve deeper into one topic, meeting three to four times for a series of workshops.
yale.learningu.org

STEM MENTORS

STEM Mentors connects high school students with undergraduate and graduate students in STEM to challenge common misconceptions about the sciences and about the people who study them. STEM Mentors hosts a variety of events throughout the year, including a panel discussion on choosing the right college, a college application workshop, and a health sciences career fair.

SYNAPSE

Synapse is the educational outreach arm of Yale Scientific Magazine. It aims to inspire New Haven public school students to pursue careers in science, engage in research, and even try their hand at scientific journalism. Synapse conducts science demonstrations at six Science on Saturdays events each year and also organizes the annual Resonance program, a day of science enrichment at Yale for high school students.
yalescientific.org/synapse

THE GREEN CAFÉ

The Green Café is a monthly interactive presentation for plant scientists, gardeners, environmentalists, and others hosted by Marsh

Botanical Gardens. Recent themes have included “Bonsai for Everyone” and “Chocolate: Hot or Not.” The intent is to foster creativity in plant research, encourage “budding” scientists to consider careers in a plant-based scientific discipline, and to share the value of plant research with the public.
greencafe.yale.edu

THE WONDERFUL WORLD OF CHEMISTRY: A MAGIC SHOW

Advances in chemistry have been behind some of the most significant improvements in our quality of life over the last century; whether it's medicine, cosmetics, or movie effects, chemistry is everywhere. In this one-hour interactive show, students and their family members are introduced to basic concepts in chemistry through a series of magical demonstrations by experts from the Yale Department of Chemistry.

ULYSSES S. GRANT PROGRAM

The Ulysses S. Grant Program is a six-week academic summer program for talented and motivated middle school students from New Haven Public Schools held on the Yale University campus. Since 1953, U.S. Grant has drawn upon the enthusiasm of Yale undergraduates to deepen students' current interests and explore completely new ones, while developing their critical thinking and collaborative skills.
campuspress.yale.edu/usgrant

URBAN RESOURCES INITIATIVE (URI)

Urban Resources Initiative is a not-for-profit university partnership between the School of Forestry & Environmental Studies at Yale and the city of New Haven. Its mission is to foster community-based land stewardship, promote environmental education, and advance the practice of urban forestry. URI is dedicated to community participation in urban ecosystem management.
uri.yale.edu

YALE CENTER FOR ANALYTICAL SCIENCES

YCAS Young Scholars is an intensive, two-week summer program that provides promising high school juniors and seniors the opportunity to learn about biostatistics. Students are introduced to basic statistical methods, study designs used in medical research, and learn the statistical program R. Students work in teams, using real health science data to address study questions and develop a final presentation of their work.
publichealth.yale.edu/ycas/training/young_scholars/index.aspx

YALE ENVIRONMENTAL FILM FESTIVAL

Sponsored by the Yale School of Forestry & Environmental Studies, the Environmental Film Festival at Yale (EFFY) is one of America's premier student-run environmental film festivals. In addition to highlighting the brightest environmental storytelling of the past year,

the festival brings celebrated directors and creatives to campus for workshops and discussions of how we can move forward constructively as environmental storytellers.
effy.yale.edu

YALE FARM

Established in 2003, the Yale Farm is a lush and productive teaching farm that produces hundreds of varieties of vegetables, fruits, herbs, and flowers, as well as providing a home to free-ranging chicken flocks and honey bees. It provides a place where students, faculty, staff, and New Haven community members can come together to learn about sustainability and the connection between land and food. The farm hosts workshops, seminars, volunteer workdays, and tours for local schools.
yale.edu/sustainablefood/farm

YALE LATINO NETWORK GROUP STEM WORKSHOP

The Yale Latino Network Group seeks to strengthen the professional and social relationships between Latino employees, the university, and the outside community. Each year, the group invites Pathways middle school students to explore science and engineering with its members for a day of hands-on workshops. The most recent event included a design-thinking workshop, where students built prototypes of beds at the Yale Center for Engineering, Innovation, and Design with Yale's Design for America student organization.
ylng.yale.edu

YALE PHYSICS OLYMPICS

The Yale Physics Olympics brings more than 100 high school students to compete in teams on a variety of physics-related tasks that get students to practice the skills of experimental physicists. Each year, 50 teams guided by a high school teacher compete. Awards are given to the three best performing teams.
ypo.yale.edu



YALE SCIENCE DIPLOMATS

Yale Science Diplomats (YSD) is a group of graduate students and postdoctoral fellows at Yale University dedicated to science communication, outreach, and advocacy. YSD brings science to the public in exciting and accessible ways through initiatives such as Science in the News, the Flipped Science Fair, and Science Haven—all with the goal of fostering a scientifically informed electorate. In doing so, YSD also trains scientists in effective communication and advocacy skills to support a community-based approach to science education.
sciencediplomats.sites.yale.edu

YALE SOCIAL ROBOTICS LAB OPEN HOUSE

The Yale Social Robotics Lab focuses on building models of human social behavior, especially the development of early social skills. Scientists in the lab use computational modeling and interactive robots to explore questions about social development that are difficult or impossible to investigate with other disciplines. Each year, the lab hosts an open house for families and students of all ages. Guests tour the lab, see live robot demonstrations, learn about past and current projects, and have an opportunity to chat with lab members about their research.

YALE SUMMER SCIENCE RESEARCH INSTITUTE

The Yale Summer Science Research Institute (SSRI) connects highly qualified Yale Pathways to Science students with science research internships at Yale. During the summer, students participate in a series of workshops and activities that supplement their internship experiences and enhance their scientific research skills. Students are paired with Yale undergraduate mentors, who provide one-on-one guidance throughout the six-week internship experience.
ssri.sites.yale.edu

YALE WEST CAMPUS LANDSCAPE LAB

The Yale West Campus Landscape Lab fosters growing collaborations across Yale and beyond, connecting more than 20 professional schools, departments, organizations, and student groups across Yale. Partners include the schools of Medicine, Nursing, Forestry & Environmental Studies, Architecture, Public Health, and Yale College. Numerous student groups utilize the West Campus Landscape Lab as a place to put their ideas into action.
westcampus.yale.edu/landscape-lab



Promoting Creativity through the Arts and Humanities



At Manuscripts and Archives Day I liked transcribing and handling archival materials directly. We got to see old documents, like diaries and journals, from people who lived in New Haven a long time ago.

—9th grade Pathways to Arts & Humanities student

Arts education stimulates curiosity, encourages creativity and inventiveness, and promotes the enjoyment of learning among students. With four top-ranked graduate arts schools, two world-class art museums, and countless performances and concerts on campus each year, Yale University has much to offer New Haven students to complement and enrich their arts education.

The Yale University Art Gallery and Yale Center for British Art welcome thousands of students through class visits each year. During these visits, students build their critical thinking and observation skills through close examination of works of art. Students drive the discussion as they strive to discover meaning within a work of art. Students are invited to performances

and concerts on campus throughout the year.

Now entering its third year, Yale Pathways to Arts & Humanities has welcomed more than 300 New Haven public school students to Yale's campus for more than a dozen new arts and humanities programs and events, including workshops on museum curation, lectures with eminent Yale professors, and backstage glimpses into theater production.

The Yale School of Music offers year-round music programming for New Haven public school students in grades 3 through 12 that aims to nurture and develop creativity, musicianship, and musical leadership in students. A high school senior who participated in both the flagship All-City Honors Ensembles and the

Morse Summer Music Academy programs remarked, "We all share this really great passion for music, which is an amazing thing to have in common." In addition to private lessons, section rehearsals, ear training, and music-theory lessons, parental involvement is a key element of these music programs.

Launched in fall 2018, the New Voices in Theater playwriting program invited its first cohort of 20 New Haven public high school students to Yale's campus for nearly a dozen workshops and theatrical performances. Participants wrote original plays, were mentored by Yale School of Drama graduate students, and attended a weekend playwriting retreat at the renowned Eugene O'Neill Theater Center in Waterford, Connecticut.

SPOTLIGHT ON Music in Schools

Research has shown that providing students access to a high-quality music education can enhance student learning across core academic areas and has long-lasting benefits for student achievement.

The Music In Schools Initiative is a longstanding partnership between the Yale School of Music and New Haven Public Schools. Each year, Music In Schools

establishes relationships between graduate student teaching artists from the School of Music and music teachers in 36 New Haven schools. Teaching artists support and complement the work of full-time teachers by leading group lessons, working one-on-one with individual students, assisting with music theory and ear training, and developing other activities based on their school placement.



BY THE NUMBERS Music in Schools

36

New Haven public elementary, middle, and high schools partner with Music in Schools for in-school mentorship, All-City Honors Ensembles, Solo Showcases, and the Morse Summer Music Academy

60

School of Music graduate students participated during the 2018–2019 season

630

Students in grades 3–12 participated in at least one Music in Schools program

ACADEMIC YALE UNIVERSITY COLLEGE COURSES

Qualified New Haven, West Haven, and Amity high school juniors and seniors who have been selected by their schools, can enroll in Yale academic courses. Participating students receive a full scholarship to cover tuition costs. This program provides an opportunity for high school students to experience a collegiate academic setting and earn credits which may then be transferred to the college of their choice following high school graduation.

ARABIC AND HEBREW SUMMER CAMP: MAKING CONNECTIONS THROUGH LANGUAGES AND MUSIC

In partnership with New Haven public schools and the Yale MacMillan Center Council on Middle East Studies sponsors a free two-week summer language program for 15 New Haven public school students in grades 6–9. Students will learn basic introductory Arabic and Hebrew through the context of music and culture. The purpose of this camp is for students to develop an appreciation of the commonalities between many languages, cultures, and musical traditions, as well as an introductory knowledge of Arabic and Hebrew.

pier.macmillan.yale.edu

BEINECKE RARE BOOK & MANUSCRIPT LIBRARY

The Beinecke Rare Book & Manuscript Library inspires engagement with the past, in the present, for the future. One of the world's largest libraries devoted entirely to rare books and manuscripts, it is Yale University's principal repository of literary archives, early manuscripts, and rare books. The exhibition hall is free and open to the public daily, with the Gutenberg Bible and Audubon's Birds

of America on permanent view along with special exhibitions. The Beinecke Library's collections are used to create new scholarship by researchers from around the world in a wide range of fields, from literary and cultural studies to the history of science, music, theater, and art; the history of the book, of photography, graphic design, and architecture; as well as social, intellectual, and political history. The collections are particularly strong in Medieval, Renaissance, and eighteenth-century Europe; American literature; Western Americana; nineteenth-century imperialism; African American culture; British literature; gay, lesbian, and transgender studies; transatlantic Modernism; postwar counterculture; and contemporary American poetry.
beinecke.library.yale.edu

CITIZENS-THINKERS-WRITERS

Citizens-Thinkers-Writers is a two-week summer residential program for students from New Haven public schools who are interested in exploring fundamental human questions in a college setting. In small seminars led by Yale professors, students gain invaluable experience in close reading, analytic writing, and college-level discussion. During the program, students actively participate in a long-running philosophical conversation that dates back to ancient Greece and Rome and link this conversation to their own experiences. After completing the summer program, students become CTW Fellows and continue to meet with the faculty, undergraduate residential teaching assistants, and a graduate coordinator throughout the academic year.
humanities.yale.edu/citizens-thinkers-writers-reflecting-civic-life

DINING WITH THE DRAMAT

The Yale Dramatic Association, also known as the Yale Dramat, is the second-oldest college theater company in the country. At Dining with the Dramat, Pathways to Arts & Humanities students join members of the Dramat for an exclusive behind-the-scenes glimpse into theater production. Students engage in conversations with actors, lighting technicians, and directors as they discuss their current musical productions. Pathways to Arts & Humanities students receive free tickets to each performance, and participate in a post-performance actor talk-back.
dramat.org

EAST ROCK RECORD JOURNALISM PROGRAM

The East Rock Record is a school newspaper produced by 30 student reporters in grades 3–8 at East Rock Community Magnet School. Students work with Yale student mentors to brainstorm, prepare, and write stories of interest to the school community. For each issue, the newspaper holds “press conferences” with prominent community members who meet with students and answer their queries. Past guests have included Mayor Toni Harp and Senator Gary Winfield. Each spring, students travel to the state capitol to meet and interview lawmakers and visit with the state’s political reporters in the CT Mirror pressroom. Two editions of the newspaper are published each academic year, with 3,200 copies printed and distributed throughout New Haven.
@eastrockrecord

HEAR YOUR SONG

Hear Your Song is an undergraduate organization that gives hospitalized children—or children in long term care—the chance to become songwriters and to hear their songs recorded. Hear Your Song works with children in nearby medical pediatric facilities to write original songs, which Yale College musicians arrange, record, and share with the patients and their families.

HERITAGE THEATER ENSEMBLE DRAMA WORKSHOPS

The Heritage Theater Ensemble, Yale’s premier Black undergraduate drama group, host’s fun theater workshops for Pathways to Arts & Humanities students. During these workshops, students engage in theater exercises, play interactive games, and hone their improvisational skills.

HEMISPHERES

Hemispheres, a program of the Yale International Relations Association, brings over 60 students in grades 8–12 from New Haven public schools to Yale’s campus every week to explore topics in international affairs and

develop their analytical, creative, and critical-thinking skills. In addition to weekly sessions, Hemispheres offers two field-trip opportunities for students, first to visit the United Nations Headquarters in New York City, where students meet with U.N. officials and learn about diplomacy from experienced professionals, and later to visit Washington, D.C., for a weekend of educational and cultural activities including visits to the U.S. Institute of Peace, the Supreme Court, and international embassies.
hemispheres.yira.org

KNOWLEDGE IS POWER: NEW HAVEN GIRLS’ FINANCIAL LITERACY DAY

During this event hosted by Smart Women Securities (SWS), high school girls are invited to learn about personal finances from Yale students. Lessons and lectures cover topics including personal investing, taxes, and saving for college. Students are also invited to attend a panel on jobs in financial services featuring female college students.

J.M. BOLIN PROGRAM

Named after the first African-American woman to graduate from Yale Law School and the first in the United States to become a judge, the J.M. Bolin Program at Yale is an academic and cultural enrichment program designed to engage high school students of African descent. Entering its second year, the program provides New Haven high school students with an opportunity to develop study skills and teamwork as they reflect on readings drawn from African-American studies to reaffirm and preserve traditions of cultural and intellectual community. The program also promotes college seminar-style discussions and networking skills, and exposes local students to the work of Yale professors and students to create a stronger connection with the New Haven community.

MARSHALL-BRENNAN CONSTITUTIONAL LITERACY PROJECT

The Marshall-Brennan Constitutional Literacy Project is a collaborative teaching program that sends law students into local public high schools to teach constitutional law. Participants in this student-run organization also have the opportunity to coach their students in a national moot-court competition, the first round of which is run by the Yale chapter right here in New Haven.
law.yale.edu

MOSAIC: MINDS ON SOCIETY, ARTS, IDEAS, AND CULTURE

MOSAIC (Minds on Society, Arts, Ideas and Culture), is a lecture series that offers students the opportunity to engage in thought-provoking discussions with Yale professors and interactive workshops with graduate students. These events challenge their ideas about identity, civic engagement, history, community, and culture.

Past topics have included “Bus Boycotts: Rosa Parks and Beyond” and “From Damascus to Dunkin’: How Coffee Changed the World.” All MOSAIC events are free and open to the public.

MUSIC IN SCHOOLS

During the academic year, the Music in Schools Initiative places graduate-student teaching artists from the Yale School of Music in more than two dozen public schools throughout New Haven. Teaching artists are trained to complement the work of full-time New Haven public school music teachers. They teach sectionals, ensembles, private lessons, and other activities depending on the needs of the school to which they are assigned.
music.yale.edu/community

MUSIC IN SCHOOLS ALL-CITY HONORS ENSEMBLES

The All-City Honors Ensembles provide the best young musicians in New Haven with high-level ensemble experiences in band, chorus, and orchestra. Ensembles are directed by a combination of Yale teaching artists, New Haven public school music teachers, and special guests. Students in grades 4–12 are eligible to audition for the ensembles each October. The program culminates in a winter concert at Wilbur Cross High School and a spring concert held at Yale’s Sprague Hall.
music.yale.edu/community/music-in-schools/all-city

MUSIC IN SCHOOLS MORSE SUMMER MUSIC ACADEMY

The Morse Summer Music Academy provides comprehensive summer music instruction for accomplished student musicians from New Haven public schools. The program nurtures and develops creativity, musicianship, and musical leadership in students who are passionate about music. Parental involvement and continuing musical opportunities throughout the school year are hallmarks of the academy. The program is open for application to students in grades 4–12 who sing or play piano or a woodwind, brass, string, or percussion instrument.
music.yale.edu/community/music-in-schools/morse-academy

MUSIC IN SCHOOLS MUSIC FESTIVALS

For students in grades 4–8 from 28 New Haven schools, vacation from school doesn’t mean taking a break from music. Led by graduate student teaching artists from the Yale School of Music, 250 students enjoy a variety of music instruction, including private lessons, small sectionals, and large ensembles.
music.yale.edu/community/music-in-schools/festivals



MUSIC IN SCHOOLS SYMPOSIUM

The Symposium on Music in Schools is held once every two years at the Yale School of Music as part of the Music in Schools Initiative. This invitational “working symposium” brings together national leaders for three days of intense discussion on pressing issues surrounding music education in public schools. The symposium also honors outstanding music educators and teaching artists with the Yale Distinguished Music Educator Award. music.yale.edu/community/music-in-schools/symposium

MUSIC IN SCHOOLS YOUNG ARTISTS SOLO SHOWCASE

Begun in 2008, the Yale/New Haven Young Artists Solo Showcase takes place annually in Sprague Memorial Hall at Yale. A collaboration between the Yale School of Music and the New Haven Public Schools, the showcase offers talented NHPS music students the opportunity to perform individually on the Yale School of Music stage and receive commendation in front of the larger NHPS community. music.yale.edu/community/music-in-schools/solo-showcase

NACLO AT YALE

The North American Computational Linguistics Olympiad (NACLO) is a contest for middle and high school students in which students solve linguistics puzzles drawn from a variety of languages. The puzzles emphasize logic and reasoning skills, and no prior knowledge of world languages is necessary for students to participate. Faculty, graduate students, and undergraduate students of Yale’s Linguistics Department lead training sessions for students in preparation for this international competition. ling.yale.edu/naclo-yale

NEW HAVEN URBAN DEBATE LEAGUE

The New Haven Urban Debate League (UDL) promotes debate and public-speaking skills in New Haven public schools. Coaches work weekly with teams in 18 New Haven public middle and high schools, focusing on a different topic each month. Students learn the rules of parliamentary debate and compete in regular district-wide tournaments held on the Yale campus. udl.sites.yale.edu

NEW VOICES IN THEATER

New Voices in Theater is a playwriting program hosted by Yale Pathways to Arts & Humanities and students at the Yale School of Drama. Over the course of eight months, dedicated students from New Haven schools participate in workshops, watch performances, and learn from professionals in the theater industry. Students attend a series of six playwriting workshops, built around plays taking place at Yale School of Drama and Yale Repertory Theatre. During these workshops, led by Yale School of Drama students, New Haven students practice playwriting, develop their original ideas, and ultimately, write the first draft of an original play and have it workshopped by Yale School of Drama dramaturgs, playwrights, and actors. This year, the New Voices in Theater program culminated in a playwriting retreat at the Eugene O’Neill Theater Center in Waterford, Connecticut.

PATHWAYS TO ARTS & HUMANITIES

Since its inception in fall 2017, Pathways to Arts & Humanities has welcomed hundreds of New Haven public high school students

to Yale’s campus for dozens of arts and humanities programs and events. Programs include: MOSAIC, New Voices in Theater, spoken word poetry workshops, museum visits, and much more. Yale Pathways to Arts & Humanities explores how humans use literature, art, music, theater, history, and language to understand our connection to the world and to one another. Programs encourage creativity, help solve real-world problems, and allow students to become civically engaged both locally and globally. onhsa.yale.edu/ah

PATHWAYS TO ARTS & HUMANITIES MANUSCRIPTS AND ARCHIVES DAY

Pathways to Arts & Humanities students are invited to visit Yale Manuscripts and Archives in Sterling Memorial Library for an afternoon of archival research and digital curating. Students learn about the work of archivists and the extensive resources of Yale’s numerous libraries and explore scrapbooks from 19th-century Yale students and New Haven residents. After the workshop, students curate their own digital “exhibits” that are featured on the Pathways to Arts & Humanities Instagram page. @yalepathwaystoarts

PIER SUMMER INSTITUTES

Programs in International Educational Resources (PIER) Summer Institute brings nearly thirty K-12 teachers and community college educators to the Yale MacMillan Center for a three day seminar. The most recent theme, “Refugees in Recent History: Focus on the Middle East,” explored ‘refugee’ as defined by international law. Through three days of interactive sessions, participants developed an appreciation for why and how people take the difficult step to leave their homes, the diversity of refugees over time, and how society is dealing with this crisis. Participants left the Institute with a robust bibliography, including visuals and other resources, for curriculum building in their classrooms. pier.macmillan.yale.edu/educators/summer-institutes-2019

SPLASH AT YALE

Splash at Yale is a biannual event that brings local middle and high school students to Yale University for one day of unlimited learning. Students take classes taught by Yale undergraduate and graduate students in a variety of both conventional and unconventional subjects. Students get to learn about things that they normally would not have access to, empowering them to find what they love to learn, discover new career opportunities, and become tomorrow’s leaders. Splash at Yale also hosts Sprout!, a similar program that gives

students the opportunity to delve deeper into one topic, meeting three to four times for a series of workshops.
yale.learningu.org

TEETH SPOKEN WORD POETRY SHOWCASE

The mission of Yale's TEETH Slam Poets is to produce meaningful and illuminating pieces and promote the appreciation of spoken word in the New Haven community. During these outreach events, Pathways to Arts & Humanities students meet Yale's TEETH Slam Poets for special performances to watch slam poetry in action, participate in small group workshops with TEETH performers, and try their hand at writing poetry.

ULYSSES S. GRANT PROGRAM

The Ulysses S. Grant Program is a six-week academic summer program for talented and motivated middle school students from New Haven Public Schools held on the Yale University campus. Since 1953, U.S. Grant has drawn upon the enthusiasm of Yale undergraduates to deepen students' current interests and explore completely new ones, while developing their critical thinking and collaborative skills.

campuspress.yale.edu/usgrant

WINDHAM CAMPBELL LITERARY FESTIVAL

Now in its seventh year, the Windham Campbell Literary Festival brings the Windham Campbell prizewinners in the fields of drama, nonfiction, fiction, and poetry to Yale's campus for a week of celebratory events. Highlight events from past festivals have included a panel discussion and writing workshops for students at Cooperative Arts & Humanities High School, film screenings, and a group reading by all the prizewinners. Many festival events are free and open to the public.

windhamcampbell.org

WORLD CULTURE AND LANGUAGE AFTER SCHOOL STUDIES (WORLD CLASS)

The World CLASS program offers language and cultural exposure in several less commonly taught languages including Arabic, German, Italian, Japanese, Portuguese, Russian, Ukrainian, and Urdu. Weekly classes are taught by Yale faculty and graduate students as well as local teachers. The program is open to all high school students in Connecticut, currently serves more than 120 students, and is free for students attending New Haven Public Schools. World CLASS culminates with a spring festival for students and their families, where students showcase the language skills they have developed over the course of the year, sample cuisines from around the world, and celebrate international cultures with live performances.
worldclass.macmillan.yale.edu

WYBCX YALE RADIO INTERNSHIP

The WYBCx Yale Radio Internship uses radio waves to give New Haven high school students a voice. Student interns meet weekly over six sessions in the spring. In these sessions, students learn about radio techniques and take over the controls for the "Teen Takeover" hour. Over the course of the program, students learn how to run their own news segments, talk shows, music hours, and radio dramas. As a final project, students have the opportunity to combine elements from what they have learned to form their own personalized shows.

wybc.com

YALE CENTER FOR BRITISH ART

The Yale Center for British Art houses the largest and most comprehensive collection of British art outside the United Kingdom in a landmark building designed by Louis Kahn. The YCBA has a rich array of exhibitions and educational programs, as well as fellowships and academic resources, including a reference library and study room for examining works on paper in the collection. The museum is open to the public and admission is free.

britishart.yale.edu

YALE CENTER FOR BRITISH ART EXPLORING ARTISM PROGRAM

Exploring Artism is the Center's free monthly program for families with children who are five to twelve years of age and on the autism spectrum. Participants look at artwork in the museum's galleries and create a follow-up art project in a museum classroom. A quiet room is available throughout the session with blankets and sensory toys. While the needs of individuals with autism are taken into account for the design of this program, it is also intended to be fun for parents, siblings, and other guardians as well.

britishart.yale.edu/education/access-programs

YALE CENTER FOR BRITISH ART FAMILY PROGRAMS

The Yale Center for British Art offers children's programs and family festivals that explore the collections and special exhibitions. Through in-gallery experiences and art activities, children and families learn about British art and culture. In June, the annual Community and Children's Film Festival features inspiring and award-winning short films for a young audience, with popcorn and live entertainment before each show.

britishart.yale.edu/education/public

YALE CENTER FOR BRITISH ART GUIDED TOURS FOR K-12 SCHOOL GROUPS

School and community groups can explore the Center's collections, architecture, and special exhibitions on an interactive, docent-led tour.

These free tours encourage close examination, critical thinking, and creative evaluation. Upon request, tours can be customized to connect content from the collections to a class curriculum. Classroom and homeschool teachers are welcome to bring their students and lead self-guided visits. The Center's educational programming is designed to support literacy instruction and complement curriculum goals and standards. Bringing art into the learning process builds students' inquiry, observation, description, and analytical skills.

britishart.yale.edu/education/k-12-and-teachers

YALE CENTER FOR BRITISH ART SUMMER TEACHER INSTITUTE

This program offers practicing teachers an enriched understanding of how visual art can support their students' reading, writing, and thinking. Workshops, discussions, and lectures by university faculty, museum curators, and educators demonstrate how "visual text" can be used to enhance literacy instruction. Institute sessions include hands-on experience with works of art and exploring ways to make the museum an extension of the classroom. Participants will be given the tools they need to lead dynamic museum visits and to incorporate visual arts into classroom instruction.

britishart.yale.edu/education/k-12-and-teachers

YALE CENTER FOR BRITISH ART VISUAL LITERACY CONSORTIUM

The Visual Literacy Consortium brings together a group of educators for a bimonthly consortium to promote the important dialogue about visual literacy and its role in school curricula. The purpose of the group is to share experiences, research, and resources and to work toward an expanded notion of literacy that includes making meaning from visual as well as written texts.

britishart.yale.edu/education/k-12-and-teachers

YALE CHILDREN'S THEATER

The Yale Children's Theater is a Yale undergraduate organization that brings together a group of Yale students devoted to teaching, entertaining, and engaging kids with the dramatic arts. The Yale Children's Theater produces four student-written shows each year, offers drama workshops and writing workshops for local students, and performs throughout the New Haven community. Programming reaches hundreds of students per year. The Yale Children's Theater also offers special programs like Hands On, Off Book, and Curtain Call, eight-week drama workshops that are designed to introduce young students in grades K–8 to theater, as well as writing workshops in playwriting, fiction writing, poetry, and journalism to students in grades K–12. The program is free of charge for New Haven

SPOTLIGHT ON New Voices in Theater



Launched in fall 2018, the New Voices in Theater (NVIT) playwriting program invited its first cohort of 20 New Haven public high school students to Yale's campus for nearly a dozen workshops and theatrical performances. Participants wrote original plays, were mentored by Yale School of Drama graduate students, and attended a weekend playwriting retreat at the renowned Eugene O'Neill Theater Center in Waterford, Connecticut.

A Yale School of Drama mentor shared their experience with the NVIT Program: "I learned how to be a better leader. I've rarely had the opportunity to work

with young artists, and it was such a humbling experience. These high schoolers are honest and fearless. They reminded me to be more vulnerable and brave in my own work, to not be ashamed of my unique voice. I appreciate being able to work with them in these workshops and spend time honing my skills as an organizer and instructor." A high school New Voices participant added, "I learned how to put thoughts on a page and create a story that can impact everyone. I enjoyed being with other fellow playwrights—some even went to my school but I never really noticed. It opened my eyes!"

students and is held on weekends at Dwight Hall during the academic year.
yalechildrenstheater.org

YALE DAILY NEWS SUMMER JOURNALISM PROGRAM

Run by members of the Yale Daily News, the Summer Journalism Program is a one-week intensive course in journalism for high school students. Students participate in workshops on the fundamentals of reporting and writing, attend lectures by guest speakers from major national publications, and create a full summer edition of the Yale Daily News by the end of the week. The program is open to all Connecticut high school students and is free for New Haven Public School students.
yaledailynews.com/about-us/sjp

YALE ENVIRONMENTAL FILM FESTIVAL

Sponsored by the Yale School of Forestry & Environmental Studies, the Environmental Film Festival at Yale (EFFY) is one of America's premier student-run environmental film festivals. In addition to highlighting the brightest environmental storytelling of the past year, the festival brings celebrated directors and creatives to campus for workshops and discussions of how we can move forward constructively as environmental storytellers.
effy.yale.edu

YALE MODEL CONGRESS

Yale Model Congress provides high school students with an opportunity to learn about and experience the American legislative system first-hand. As part of the program, students learn parliamentary procedure, write legislation, develop research strategies, and practice public-speaking skills. During the annual Yale Model Congress conference, students assume the responsibilities of elected representatives and tackle the issues facing our nation, such as security, the environment, and many more political arenas.
yalemodelcongress.org

YALE SCHOOL OF DRAMA DWIGHT/ EDGEWOOD PROJECT

The Dwight/Edgewood Project brings eight 6th-and-7th grade students from Barnard Environmental Studies Magnet School to the Yale Repertory Theatre for a month-long after-school playwriting program designed to strengthen students' self-esteem and creative process. The program includes one-on-one mentoring, theater games, numerous playwriting exercises and a weekend-long writing retreat in northern Connecticut. Yale School of Drama students lead the program, serving as mentors, directors, and theater technicians. The program culminates in June with the presentation of eight original plays over two evenings of free performances.
yalerep.org/productions-and-programs/youth-programs

YALE SCHOOL OF DRAMA WILL POWER!

WILL POWER! is Yale Repertory Theatre's annual educational initiative offered in conjunction with one or more of its productions. It features specially-priced tickets and early school-time matinées for middle and high school student groups. The program also includes free professional development for educators, study guides for students, and post-performance discussions with members of the company. Since the program's inception in 2003, more than 20,000 students and educators from across Connecticut have participated.
yalerep.org/productions-and-programs/youth-programs

YALE SUMMER DEBATE PROGRAM

Offered by the Urban Debate League, the weeklong Yale Summer Debate Program is open to all New Haven high school students, regardless of debate experience. During the program, students develop their skills in public speaking, constructing arguments, and delivering rebuttals. The program is premised on the philosophy that students can use debate as a tool to critically engage with the world around them, helping them to become better debaters and students, and more active members of society.
udl.sites.yale.edu/summerdebateprogram

YALE UNIVERSITY ART GALLERY

The Yale University Art Gallery has more than 4,000 works of art on view from cultures all over the world. The more than 200,000 objects in its permanent collection range from American decorative arts and American paintings and sculpture to African art and art of the ancient Americas. In addition to its permanent collection, the gallery also has 21 educational programs, special exhibitions, study rooms, and museum archives. The museum is free and open to the public.

artgallery.yale.edu

YALE UNIVERSITY ART GALLERY FAMILY PROGRAMS

The weekend family programs at the Yale University Art Gallery are designed to help start conversations about art with children of all ages. On the second Sunday of each month throughout the year, families are invited to participate in the Stories and Art program. Tales of distant times and faraway lands inspire children of all ages to view art in new ways. Gallery teaching staff tell folktales, myths, and exciting stories from all over the world that highlight unique features of selected objects in the gallery's collection. The annual Family Day at the Yale University Art Gallery invites families to explore the collection with special tours, storytelling, and art-making activities.

artgallery.yale.edu/education-overview/kids-and-families

YALE UNIVERSITY ART GALLERY GUIDED TOURS FOR K-12 SCHOOL GROUPS

School groups can explore the Yale University Art Gallery's collection, buildings, and

exhibitions on free, interactive guided class visits. Visits for school groups are led by the museum's Gallery Teachers, Yale graduate students trained as museum educators. Class visits stress critical thinking, observation skills, and creative evaluation through close examination, interactive activities, and discussion of works of art and are tied to Common Core Standards. This past year, more than 16,000 K-12 students visited with their classes and as part of after-school programs. School groups can schedule single visits or work with the Education Department to develop multi-visit partnerships.

artgallery.yale.edu/education-overview/k-12-educators

YALE UNIVERSITY ART GALLERY MUSEUM CLUB

As part of the partnership between the Yale University Art Gallery and Betsy Ross Arts Magnet Middle School, visual arts students from Betsy Ross visit the gallery with their parents monthly for a tailored after-school program.

artgallery.yale.edu

YALE UNIVERSITY ART GALLERY SIDEWALK STUDIO

Sidewalk Studio is a summer outdoor program set up in front of the Gallery that fosters impromptu art making on a drop-in basis. Led by Gallery staff and Yale University undergraduate and graduate students, each session focuses on a single medium and connects to related works in the collection.

artgallery.yale.edu

YALE UNIVERSITY ART GALLERY TEACHER LEADERSHIP PROGRAM

In the Teacher Leadership Program, teachers explore innovative ways to connect their own interest in art, their curricula, and the gallery's collection. The program is free and meets the first Thursday of the month throughout the academic year. More than 500 teachers attended professional development programs at the museum that focused on inquiry-based teaching, critical thinking, and visual literacy skills.

artgallery.yale.edu/education-overview/k-12-educators

YALE UNIVERSITY ART GALLERY TEEN PROGRAM

Begun in 2014, the Teen Program at the gallery is open to all local high school students. Students meet weekly for sessions focused on making art and exploring the gallery's collections. This past year, students worked in the studio on portraits and print-making, and examined special collections in the gallery's print room.

artgallery.yale.edu/education-overview/teens

YALE UNIVERSITY LIBRARY DIGITAL HUMANITIES LAB

Yale University Library Digital Humanities Laboratory (DHLab) offers cutting-edge research and teaching in the humanities. During the school year, Pathways students are invited to the DHLab for hands-on workshops to explore the many uses of digital humanities, including Story Maps—open source software used to combine maps with text, images, and content to create unique ways of sharing information.

dhlab.yale.edu





Supporting Academic Success



When students can see how what they learn in school applies to the wider world, they become more invested in their own academic learning and success. Working in partnership with the New Haven Public Schools, Yale faculty, staff, and students are actively engaged in a variety of programming that complements the instruction students receive during the school day.

Programs like the Marshall-Brennan Constitutional Literacy Project collaborate with teachers to implement enrichment programming for students during the school day. Through the Marshall-Brennan program, Yale Law School students lead constitutional-law workshops with students from New Haven Academy and Cooperative Arts and Humanities High School. At the end of the program, students participate in a national moot-court competition.

The EVOLUTIONS program at the Peabody Museum offers an after-

school enrichment opportunity for high school students. The curriculum focuses on enhancing scientific literacy and college preparation. Each year, students design their own exhibition at the museum, take field trips to nearby science centers, and participate in an annual four-day college trip. Because of their participation in the EVOLUTIONS program, a number of students go on to hold internships as science interpreters at the Peabody Museum or conduct research in laboratory internships.

Splash at Yale is a biannual event that brings local middle and high school students to Yale University for one day of unlimited learning. Students take classes in a variety of both conventional and unconventional subjects taught by Yale undergraduate and graduate students. Students get to learn about things that they normally would not have access to, empowering them to find what they love to learn, discover new career opportunities, and become tomorrow's leaders.

Being a part of the EVOLUTIONS after-school program has enabled me to do a ton of things that you normally wouldn't do in a regular high school setting. With this program they really help you find out who you are as person and what you are really capable of doing. And that's something I believe everyone should experience before they head into a world that is bigger than what they imagine it to be.

—High school junior in the Peabody EVOLUTIONS Program



ACADEMIC YALE UNIVERSITY COLLEGE COURSES

Qualified New Haven, West Haven, and Amity high school juniors and seniors who have been selected by their schools, can enroll in Yale academic courses. Participating students receive a full scholarship to cover tuition costs. This program provides an opportunity for high school students to experience a collegiate academic setting and earn credits which may then be transferred to the college of their choice following high school graduation.

BIG BROTHERS/BIG SISTERS

The Big Brothers/Big Sisters mentoring program establishes relationships between Yale student-athletes and youth in the New Haven community. Pairs meet on a weekly basis for homework help, games, and field trips. Planned gatherings at Yale athletic events offer additional opportunities for mentors and students to come together.

yalebulldogs.com/information/community

BRIDGES

More than 60 languages are spoken in the city of New Haven alone. Bridges provides free small-group or one-on-one English tutoring to immigrants and visiting internationals in the New Haven community. Classes taught by Yale undergraduates are held Saturday mornings at the Asian American Cultural Center at Yale.

campuspress.yale.edu/bridges

BULLDOG BUDDIES

This mentor program matches Yale student-athletes with middle school students. Mentors work with students weekly to play games, help with homework, and read books. In February, as one of many special events, students and mentors are invited to attend a Yale Men's

Basketball game in Payne Whitney Gym.
yalebulldogs.com/information/community

DWIGHT HALL AT YALE, CENTER FOR PUBLIC SERVICE AND SOCIAL JUSTICE

Dwight Hall is an umbrella community-service organization featuring more than 90 student-managed groups that engage Yale University students in contributing more than 150,000 hours of direct service each year, in tutoring, mentoring, youth development, and advocacy.

dwiththall.org

EVOLUTIONS

The Yale Peabody EVOLUTIONS Program (EVOking Learning & Understanding Through Investigations Of the Natural Sciences) engages high school students in informal learning and work opportunities throughout all four years of high school. Students spend at least one day per week after school learning about science, preparing for college, developing job skills, and making new friends. Participants spend hundreds of hours each year as exhibit developers, museum interpreters, research interns, and students. Through weekly classes, monthly events, and field trips, EVOLUTIONS is designed to increase science literacy, provide college preparation, develop career awareness, and promote transferable skill development. Each year, EVOLUTIONS students produce an exhibition that is installed in the museum and work as science interpreters through the SciCORPS youth employment program. A select group of EVOLUTIONS students are also offered paid internships in Yale science laboratories.

evolutions.peabody.yale.edu

JONES-ZIMMERMAN ACADEMIC MENTORING PROGRAM (J-ZAMP)

J-ZAMP, a program operated through Dwight Hall at Yale, connects Yale undergraduates to middle school students in a long-term relationship. As first-year college students, Yale students are selected to devote their sophomore, junior, and senior years to working with students beginning in grade 6 and ending with middle school graduation.

jzamp.org

MARSHALL-BRENNAN CONSTITUTIONAL LITERACY PROJECT

The Marshall-Brennan Constitutional Literacy Project is a collaborative teaching program that sends law students into local public high schools to teach constitutional law. Participants in this student-run organization also have the opportunity to coach students in a national moot-court competition, the first round of which is run by the Yale chapter in New Haven.

law.yale.edu

NEW HAVEN REACH

New Haven REACH is a Yale undergraduate organization that was founded by graduates of Wilbur Cross High School. This student-run organization seeks to provide the information and support necessary for New Haven youth to access the higher education best suited to their dreams, potential, and ambitions. New Haven REACH offers personalized mentoring services to help students with college applications and beyond!

dwiththall.org/new-haven-reach

NEW HAVEN READS

New Haven Reads distributes more than 100,000 free books to individuals, families, teachers, and organizations each year, in addition to providing free weekly tutoring and SAT preparation classes for more than 500 students from the New Haven area. The organization is run out of a Yale-donated space adjacent to campus. Additionally, Yale sponsors 20 undergraduate tutors every year to ensure that every student can receive at least one hour of one-on-one instruction each week with a dedicated tutor.

newhavenreads.org

NEW HAVEN SCIENCE FAIR

The annual New Haven Science Fair offers mentoring for students and professional development for teachers on investigative hands-on science-fair projects that promote scientific skills and research communication. This year, more than 8,000 New Haven students and 43 schools participated, utilizing more than 160 volunteers for mentoring and

judging. Yale community members make up over 80% of the judges and mentors in the program.

nhsciencefair.org

NEW HAVEN URBAN DEBATE LEAGUE

The New Haven Urban Debate League (UDL) promotes debate and public-speaking skills in New Haven public schools. Coaches work weekly with teams in 18 New Haven public middle and high schools, focusing on a different topic each month. Students learn the rules of parliamentary debate and compete in regular district-wide tournaments held on the Yale campus.

ynhudl.com

OPEN YALE COURSES

Open Yale Courses provides free and open access to a selection of introductory courses taught by distinguished teachers and scholars at Yale University. The aim of the project is to expand access to educational materials for all who wish to learn.

oyc.yale.edu

PALS

PALS is a tutoring and mentoring group that allows Yale students to develop one-on-one relationships with children from the New Haven area. At PALS, mentors make learning fun through educational games and interactive activities that develop the children's content knowledge and skills. Tutors and children meet on Saturdays throughout the year.

REFUGEE AND IMMIGRANT STUDENT EDUCATION

Refugee and Immigrant Student Education (RISE) is a Yale organization that seeks to connect and engage with New Haven's refugee and immigrant communities. Tutors work with refugee and immigrant students in schools and homes each week to foster community and civic engagement. RISE also hosts fun monthly community events, including an East Rock picnic, spoken word poetry events, and an annual multicultural festival, to foster inclusion and cultural awareness.

studentsofsalaam.org/team

SPLASH AT YALE

Splash at Yale is a biannual event that brings local middle and high school students to Yale University for one day of unlimited learning. Students take classes taught by Yale undergraduate and graduate students in a variety of both conventional and unconventional subjects. Students get to learn about things that they normally would not have access to, empowering them to find what they love to learn, discover new career opportunities, and become tomorrow's leaders. Splash at Yale

also hosts Sprout!, a similar program that gives students the opportunity to delve deeper into one topic, meeting three to four times for a series of workshops.

yale.learningu.org

SQUASH HAVEN

Squash Haven provides individually directed academic enrichment, squash instruction, and high school and college placement to 95 New Haven public school students in fifth grade through high school. Through intensive tuition-free academic and squash sessions at Yale University, Squash Haven supports team members to achieve school success, physical fitness, athletic excellence, and access to compelling summer and academic opportunities.

squashhaven.org

URBAN IMPROVEMENT CORPS

Established in 1968, the Urban Improvement Corps provides one-on-one mentoring and tutoring to students in the New Haven area. Tutoring occurs after school weekly at the Afro-American Cultural Center at Yale. The program also provides supplemental classes on the weekends for students interested in creative writing, SAT/ACT practice, computer science, and music composition.

facebook.com/yaleuic

YALE READING CORPS

Through the Yale Reading Corps, Yale undergraduate and graduate students serve as teaching assistants in classrooms at Wexler-Grant School. Fully integrated into the educational environment, the Yale students serve for several hours a week by supporting class activities, working with individual students or small groups. In addition, the program supports the school's literacy efforts by sponsoring book fair events, which allow students to expand their home libraries. Through Yale Reading Corps, Yale undergraduate and graduate students also serve as reading tutors and mentors at New Haven Reads, which also provides one-on-one after-school tutoring, educational family support, and a community book bank.

newhavenreads.org

YALE UNIVERSITY PRESIDENT'S PUBLIC SERVICE FELLOWSHIP

Established in 1994, the fellowship provides full funding for up to 30 Yale students each summer to work full-time with public sector and nonprofit organizations throughout New Haven. The President's Public Service Fellowship has created a legacy of current Yale students and recent graduates who have a sophisticated

view of community development and remain active in community building in New Haven and in other cities. To date, more than 800 Yale University undergraduate, graduate, and professional-school students have contributed more than 346,000 hours of community service to local organizations serving New Haven residents.

yale.edu/ppsf

YALE UNIVERSITY ON ITUNES U

Yale University has a wide array of podcasts available from faculty, alumni, and distinguished visitors. Apple's iTunes distributes the university's podcasts, all free of charge. You can download episodes one at a time or you can subscribe to the entire series. Topics include arts and humanities, science and engineering, health and medicine, the environment, as well as other areas of interest.

broadcast.yale.edu/yale-itunes

YALE YOUTUBE CHANNEL

The Yale University YouTube channel supplies a variety of videos to the viewing public. Covering anything from speeches and course lectures to videos made about happenings on campus, the Yale YouTube channel is a free way to experience all that Yale has to offer from your home computer.

youtube.com/yale





Athletics and Health Programs



Supporting students to make healthy choices goes hand in hand with helping them realize their fullest academic potential. Programs like Squash Haven encourage students to lead active and healthy lifestyles, while also working to put students on track to achieve their fullest academic potential. In Squash Haven, 100 local middle and high school students participate in more than 400 hours of programming over the course of a year, in a curriculum that includes intense squash instruction, differentiated individual tutoring, group academic enrichment, and community service projects.

Integrated into the school day, undergraduate students in the Community Health Educators (CHE) program teach alongside classroom teachers in 24 New Haven public schools each academic year. CHE works with school administrators, teachers, and students to develop and teach discussion-based workshops on healthy relationships, nutrition, and mental health.

Yale Athletics welcomes local students to its facilities for a variety of programming during the school year and summer months. At four annual Youth Day events, students are invited to participate in free sports clinics and gain free admission to a varsity event. Students can learn a new skill by taking swim lessons led by members of Yale's Varsity Swim Team at Payne Whitney Gym or learning to row during the summer months.

At Yale's Gilder Boathouse on the Housatonic River, Yale student-athletes and coaches teach younger students the sport of rowing through the Yale Community Rowing program. The program now attracts more than 800 students to Yale's facilities for one-week sessions ranging from the basic "Learn to Row" program to more advanced programs for older students, all offered free of charge.

BY THE NUMBERS Squash Haven

100

Middle and high school students

750

Total community-service hours
completed by team members

89%

Overall team grade average in core
subjects

\$1.8

Million dollars in financial aid
awards to team members and
program alumni

ANATOMY TEACHING PROGRAM

Yale medical students and faculty teach an anatomy class to Hill Regional Career High School students. Juniors and seniors enrolled in anatomy and physiology courses visit the Yale Medical School twice per month to access the lab facilities. Lab activities range from observing a cadaver dissection to using slides and microscopes in the histology laboratories.

BULLDOG BUDDIES

This mentor program matches Yale student athletes with middle school students. Mentors work with students weekly to play games, help with homework, and read books. In February, as one of many special events, students and mentors are invited to attend a Yale Men's Basketball game in Payne Whitney Gym. yalebulldogs.com/information/community

COMMUNITY HEALTH EDUCATORS (CHE)

To empower teenagers with the skills, self-respect, and knowledge needed to make healthy decisions about their bodies and their futures, Yale undergraduates teach alongside classroom teachers in 24 New Haven public schools each academic year. CHE works with school administrators, teachers, and students to develop and teach discussion-based workshops that span the topics of communication, contraception, sexually transmitted infections, nutrition, drug use, relationships, and abuse. communityhealtheducators.com

HAVE BONES, WILL TRAVEL

Have Bones, Will Travel is a program offered to elementary, middle, and high schools in New Haven. The program aims to foster science enthusiasm and interest in the nursing profession. Volunteers from the Yale School of Nursing teach students about the marvels of human anatomy through engaging hands-on activities while emphasizing the importance of decisions that can affect their long-term health. nursing.yale.edu/have-bones-will-travel

HEALTH PROFESSIONALS RECRUITMENT AND EXPOSURE PROGRAM (HPREP)

HPREP is a pipeline program under the auspices of the Student National Medical Association and Latino Medical Student Association at Yale. HPREP aims to provide students with the skills and necessary resources to succeed in the college application process by providing instructional classroom sessions, workshops, and one-on-one meetings. By the end of the program, each student will have drafted and edited their first college essay and successfully completed

a health-related research project and oral presentation. medicine.yale.edu/dice/diversity/pipeline/hprep.aspx

HEALTHY NEIGHBORS PROGRAM

Healthy Neighbors is a community partnership between the Yale health professions schools and the Church Street South housing development focused on teaching health promotion and prevention, that is fostering a healthy environment, and empowering the youth at Church Street South. Volunteers provide daily after-school tutoring, weekly health education and wellness-focused activities, and seasonal health fairs. nursing.yale.edu/healthy-neighbors-program

NEW HAVEN TENNIS OUTREACH (NHTO)

NHTO is a non-profit youth development program for students in grades 3–12. The program is directed towards children from low-income families that otherwise would not have access to high-quality academic guidance or athletic instruction. Undergraduates from the Yale Varsity Tennis Teams will mentor the program's students year-round, providing consistent tennis lessons and one-on-one academic support. yalebulldogs.com/information/community

SQUASH HAVEN

Squash Haven empowers New Haven youth to strive for and maintain school success and physical wellness, and to forge a path through higher education to engaged citizenship. Fifth through twelfth grade team members participate in tuition-free year-round programming that includes differentiated individual tutoring, group academic enrichment, squash instruction, community service, values-based character development, exposure to a broad range of enrichment opportunities, and college preparation. Consistent with the long term goal of graduation from institutions of higher education, college-aged team members continue to receive academic, athletic, and personal advice/support and access to internship and summer employment opportunities. Squash Haven relies on a small full-time staff based at Yale whose work is complemented by the volunteer efforts of the university's squash teams and academic volunteers. New middle school

students are selected annually on the basis of their motivation and commitment and are expected to actively participate in the program through the end of college. squashhaven.org

YALE ATHLETICS YOUTH DAYS

The Yale Athletics Department hosts four annual Youth Day events: Fall Youth Day at the Yale Bowl, Winter Youth Day, Yale Hockey Youth Day, and Spring Yale Olympic Youth Day. Students engage in free sports clinics, gain free admission to varsity events and earn special prizes for participation. Youth Days are free and open to the public and draw hundreds of New Haven students to Yale's campus. yalebulldogs.com/information/community/outreach_program/youth_days

YALE COMMUNITY ROWING

Established in 1999, the Yale Community Rowing program now brings over 800 students between the ages of ten and seventeen to Yale's rowing facilities each summer for one-week sessions ranging from the basic "Learn to Row" to more advanced programs for upper-middle and high school students. Programs are offered free of charge. yalebulldogs.com/information/community/outreach_program/rowing



YALE SWIM NEW HAVEN

Every spring, volunteers from the Yale men's and women's varsity swim teams lead weekly community swim lessons for New Haven youth. Students engage in healthy after-school programming while learning an important safety skill and building individual campus-community relationships. yalebulldogs.com/information/community

Summer Programs for Students



Summer learning programs are crucial to ensuring that our children are equipped with the knowledge, skills, and confidence they need to succeed in school, careers, and life. As the school day becomes increasingly stretched thin with the pressures of standardized testing, we have found that summer programs can provide much-needed academic support and enrichment. New Haven students are welcomed to Yale's campus for a diverse array of academic and athletic programming during the summer months. Students nourish musical talents at the Morse Summer Music Academy, learn to play squash at Squash Haven and take courses at Yale through the Shafer Scholars program.

Since 1953, the Ulysses S. Grant Program has drawn on the experience and enthusiasm of Yale undergraduates to challenge a group of talented and motivated New Haven middle school students to acquire the academic support and skills they need

At first I thought this program would be a lot like going to school, but I soon realized there were vital differences. I learned about topics that I was genuinely interested in, from top experts in the field, and with a group of supportive people. It was wonderful to connect with kids my age who share the same interest in science as I do. I have learned so much, met some amazing people, and enjoyed every second of Pathways Summer Scholars.

-Pathways Summer Scholars student

to excel in school now and prepare for college. During this six-week summer program, students learn in small classroom settings, in classes designed by Yale undergraduate teachers to pique students' interest and challenge them, through, for example, creative writing tasks or engineering design challenges.

Citizens-Thinkers-Writers is a two-week summer residential program for 15 students from New Haven

public schools who are interested in exploring fundamental human questions in a college setting. In small seminars led by Yale professors, students gain invaluable experience in close reading, analytic writing, and college-level discussion. During the program, students actively participate in a long-running philosophical conversation that dates back to ancient Greece and Rome and link this conversation to their own experiences.

SPOTLIGHT ON Pathways Summer Scholars



Pathways Summer Scholars is a selective summer day and residential program that brings 100 New Haven and West Haven public high school students to study science on Yale's campus for two weeks. Pathways Summer Scholars prepares motivated and academically promising students for success in college STEM majors and future careers.

Pathways Summer Scholars provides a tailored enrichment program for students, offering an intensive, hands-on curriculum that emphasizes discovery, critical thinking, and problem solving. The curriculum is designed and taught by Yale faculty, graduate students, and local teachers. Students participate in STEM laboratory

workshops each day on topics like "Learning about the Brain with Bugs," "The Chemistry of Energy," and "Exploring the Physics of Light." After classes each day, students attend guest lectures and scientific demonstrations. Yale students also serve a vital role in the program as residential advisors, teaching assistants, and mentors.

One student states: "This program has taught me things my high school science classes have not. I was able to have fun and make new friends. I have been able to connect with other kids my age who share an interest in science." Approximately half of all Pathways Summer Scholars students will be the first in their families to go to college.

BY THE NUMBERS Pathways Summer Scholars

88%
Scholars students enroll in college following high school graduation

67%
Scholars students earn a four-year college degree within six years of high school graduation

63%
Scholars students obtain a college degree in STEM fields

CAMP KESEM AT YALE

Camp Kesem at Yale was founded in 2013 to support children and youth in the greater Connecticut community whose families have been affected by a cancer diagnosis. Run by about 80 student volunteers, Camp Kesem welcomes 140 youth ages 6–18 per year to attend a week-long summer camp. This camping experience has a lasting impact on youth by providing them with a peer-support network that understands their unique needs, builds confidence, and strengthens their communication skills.

campkesem.org/yale

CITIZENS-THINKERS-WRITERS

Citizens-Thinkers-Writers is a two-week summer residential program for students from New Haven public schools who are interested in exploring fundamental human questions in a college setting. In small seminars led by Yale professors, students gain invaluable experience in close reading, analytic writing, and college-level discussion. During the program, students actively participate in a long-running philosophical conversation that dates back to ancient Greece and Rome and

link this conversation to their own experiences. After completing the summer program, students become CTW Fellows and continue to meet with the faculty, undergraduate residential teaching assistants, and a graduate coordinator throughout the academic year.

humanities.yale.edu/citizens-thinkers-writers-reflecting-civic-life

MUSIC IN SCHOOLS MORSE SUMMER MUSIC ACADEMY

The Morse Summer Music Academy provides comprehensive summer music instruction for accomplished student musicians from New Haven public schools. The program nurtures and develops creativity, musicianship, and musical leadership in students who are passionate about music. Parental involvement and continuing musical opportunities throughout the school year are hallmarks of the academy. The program is open for application to students in grades 4–12 who sing or play piano or a woodwind, brass, string, or percussion instrument.

music.yale.edu/community/music-in-schools/morse-academy

NEWT HIGH SCHOOL LABORATORY INTERNSHIPS

The Nanotechnology-Enabled Water Treatment Center (NEWT) invites Yale Pathways high school juniors to work in their laboratories for a six-week intensive summer research internship. Students work directly with graduate students and faculty on projects related to the production of clean-water technologies.

PATHWAYS SUMMER SCHOLARS PROGRAM

The Pathways Summer Scholars program brings 100 high school students from New Haven, West Haven, and Amity Public Schools to study science for two weeks on Yale's campus. The goal is to prepare motivated and academically promising students for success in college and to strengthen their ability to pursue science majors and careers. Summer Scholars provides an intensive, hands-on science curriculum that emphasizes discovery, critical thinking, and problem solving. Rising seniors have the opportunity to live on campus during the program to get a feel for life at college and engage in a variety of college-prep enrichment activities. The curriculum is designed by Yale University faculty, graduate, and professional students, and teachers from local public schools. Yale students serve a vital role as teaching assistants and mentors.
pathwayssummerscholars.yale.edu

PLAY2PREVENT LAB FORAGIRL PROGRAM

Part of the Yale Center for Health & Learning Games at the Yale School of Medicine, Play2PREVENT focuses on the use of videogame play for the purposes of health promotion, risk reduction, social good, and educational interventions. ForAGirl engages female Pathways high school students in a two-week summer research training in developing effective video-game interventions that target areas in which girls and women are disproportionately affected. Female Yale faculty members provide guidance and mentorship.
play2prevent.org/about-us/foragirl-program

SHAFER FAMILY SUMMER SCHOOL SCHOLARSHIPS FOR YALE UNIVERSITY SUMMER SESSION

Shafer Scholars are New Haven high school juniors and seniors nominated by their high school guidance counselors to enroll in a five-week Yale summer session program. A scholarship from the Shafer family of New Haven provides full tuition for two courses, room and board, a book allowance, and a stipend for each student. Students take Yale College courses in the company of college students and are able to earn college credits. Shafer Scholars live on campus in one of Yale's



residential colleges for the duration of their program and have the opportunity to participate in co-curricular, recreational, and social programs with students from other high schools and colleges from across the country.

ULYSSES S. GRANT PROGRAM

The Ulysses S. Grant Program is a six-week academic summer program for talented and motivated middle school students from New Haven held on the Yale University campus. Since 1953, U.S. Grant has drawn on the experience and enthusiasm of Yale undergraduates to challenge students so they can acquire the academic preparation and skills they will need to enter and succeed in college and excel in their current school environment.
campuspress.yale.edu/usgrant

YALE CENTER FOR ANALYTICAL SCIENCES

The Young Scholars program brings together a collaborative group of eight to ten high school students primarily from the greater New Haven area. For two weeks in the summer, students participate in an intensive introduction to biostatistics, learn the statistical modeling program R, and explore aspects of public health. Young Scholars provides an intensive, hands-on science curriculum that emphasizes discovery through lab tours, critical thinking and problem-solving, and faculty-led programming sessions.
publichealth.yale.edu/ycas/training/young-scholars/index.aspx

YALE COMMUNITY ROWING

Established in 1999, the Yale Community Rowing program now brings more than 800 students between the ages of ten and

seventeen to Yale's rowing facilities each summer for one-week sessions ranging from the basic "Learn to Row" to more advanced programs for upper-middle and high school students. Programs are offered free of charge.
yalebulldogs.com/information/community/outreach_program/rowing

YALE DAILY NEWS SUMMER JOURNALISM PROGRAM

Run by members of the Yale Daily News, the Summer Journalism Program is a one-week intensive course in journalism for high school students. Students participate in workshops on the fundamentals of reporting and writing, attend lectures by guest speakers from major national publications, and create a full summer edition of the Yale Daily News by the end of the week. The program is open to all Connecticut high school students and is free for New Haven Public School students.
yaledailynews.com/about-us/sjp

YALE SUMMER DEBATE PROGRAM

Offered by the Urban Debate League, the weeklong Yale Summer Debate Program is open to all New Haven high school students, regardless of debate experience. During the program, students develop their skills in public speaking, constructing arguments, and delivering rebuttals. The program is premised on the philosophy that students can use debate as a tool to critically engage with the world around them, helping them to become better debaters and students, and more active members of society.
udl.sites.yale.edu/summerdebateprogram

SPOTLIGHT ON Ulysses S. Grant Program



Begun in 1953, the Ulysses S. Grant program is a six-week summer academic enrichment program for talented and motivated New Haven public and parochial middle school students. This summer the U.S. Grant program served 70 students from 19 different schools, who collectively speak 18 different languages, including Tagalog, Ga, Italian, Spanish, and Korean. Each morning, Yale undergraduates teach classes of their own design to challenge and excite their students. In Humanities classes, students hone their reading, writing and critical thinking skills in classes that allow them to study and tell stories, explore US music history,

engage critically with social movements, and write and act in plays. In Investigations classes, students develop their problem-solving skills through fun, hands-on projects in subjects such as psychology, cryptography, and fractal geometry. In the afternoon, students participate in electives and clubs that offer them the opportunity to learn in a more relaxed environment with students from other grades. Students go on field trips to the Beardsley Zoo and Silverman Farms, as well as local class field trips to places like the Yale Art Gallery and the Cushing Center.

YALE SUMMER SCIENCE RESEARCH INSTITUTE

The Yale Summer Science Research Institute (SSRI) connects highly qualified Yale Pathways to Science students with science-research internships at Yale. During the summer, students participate in a series of workshops and activities that supplement their internship experiences and enhance their scientific research skills. Students are paired with Yale undergraduate mentors, who provide one-on-one guidance throughout the six-week internship experience.

ssri.sites.yale.edu

YALE UNIVERSITY ART GALLERY TEEN PROGRAM

Begun in 2014, the Teen Program at the gallery is open to all local high school students. Students meet weekly for sessions focused on making art and exploring the gallery's collections. This past year, students worked in the studio on portraits and print-making, and examined special collections in the gallery's print room.

artgallery.yale.edu/education-overview/teens



Professional Development Opportunities for Teachers



Yale's work with New Haven and area students is complemented by the wide range of professional-development opportunities made available for teachers that welcome them into the fold of Yale's academic community. Programs provide teachers with opportunities to engage in dialogue with other area educators, conduct research in Yale laboratories alongside Yale faculty and graduate students, and enroll in seminars led by eminent Yale professors. Teachers may leave sessions of the Teacher Leadership Program at the Yale University Art Gallery with strategies for encouraging critical thinking through looking closely at art, or complete summer-research fellowships with innovative ways for engaging students through project-based learning. Moreover, it is often informal collaborations between faculty and public-school educators that yield the most fruitful flow of new ideas and approaches to student learning.

The Teacher Leadership Program opens up a new world of seeing, perceiving, and understanding. All are invited to participate in the dialogue and discussion. Time and again I have been able to return to my classroom and model this same inclusion to my students. In fact, I now start every class with "Visual of the Day" where they have to respond to "What do you see?" through writing, drawing, or verbalizing.

-Michael Bergeron, Yale University Art Gallery Teacher Leadership Program



SPOTLIGHT ON Yale–New Haven Teachers Institute



The Yale–New Haven Teachers Institute is an educational partnership designed to strengthen teaching and learning in New Haven public schools. Yale faculty members and New Haven teachers work together as colleagues in discussion seminars and the development of new curriculum units. The seminars, which meet over a five-month period, are designed in response to teacher requests and have addressed topics across the sciences and humanities.

Each participating teacher becomes an Institute Fellow and prepares a curriculum unit to be taught and published, which is widely disseminated and made available online. Fellows become members of the Yale community for one year, with library and other campus privileges, and receive a stipend upon successful completion of the Institute.

CODE HAVEN TEACHTECH

TeachTech is Code Haven's one-day conference for middle and high school teachers interested in incorporating computer science into their classrooms. Teachers learn about computer-science fundamentals, how to demonstrate these concepts to students in an engaging way, and basic software that they can implement in their classrooms to make CS more appealing to students.

codehavenyale.com/join-teachers

MUSIC IN SCHOOLS SYMPOSIUM

The Symposium on Music in Schools is held once every two years at the Yale School of Music as part of the Music in Schools Initiative. This invitational "working symposium" brings together national leaders for three days of intense discussion on pressing issues surrounding music education in public schools.

The symposium also honors outstanding music educators and teaching artists with the Yale Distinguished Music Educator Award. music.yale.edu/community/music-in-schools/symposium

OPEN YALE COURSES

Open Yale Courses provides free and open access to a selection of introductory courses taught by distinguished teachers and scholars at Yale University. The aim of the project is to expand access to educational materials for all who wish to learn.

oyc.yale.edu

PIER SUMMER INSTITUTES

Programs in International Educational Resources (PIER) Summer Institute brings nearly thirty K-12 teachers and community college educators to the Yale MacMillan Center for a three day seminar. The most recent theme, "Refugees in Recent History: Focus on the Middle East," explored 'refugee' as defined by international law. Through three days of interactive sessions, participants developed an appreciation for why and how people take the difficult step to leave their homes, the diversity of refugees over time, and how society is dealing with this crisis. Participants left the Institute with a robust bibliography, including visuals and other resources, for curriculum building in their classrooms.

pier.macmillan.yale.edu/educators/summer-institutes-2019

YALE CENTER FOR BRITISH ART SUMMER TEACHER INSTITUTE

This program offers practicing teachers an enriched understanding of how visual art can support their students' reading, writing, and thinking. Workshops, discussions, and lectures by university faculty, museum curators, and educators demonstrate how "visual text" can be used to enhance literacy instruction. Institute sessions include hands-on experience with works of art and exploring ways to make the museum an extension of the classroom. Participants will be given the tools they need to lead dynamic museum visits and to incorporate visual arts into classroom instruction.

britishart.yale.edu/education/k-12-and-teachers

YALE CENTER FOR BRITISH ART VISUAL LITERACY CONSORTIUM

The Visual Literacy Consortium brings together a group of educators for a bimonthly consortium to promote the important dialogue about visual literacy and its role in school curricula. The purpose of the group is to share experiences, research, and resources and to work toward an expanded notion of literacy that includes making meaning from visual as well as written texts.

britishart.yale.edu/education/k-12-and-teachers

YALE CHILD STUDY CENTER'S COMER SCHOOL DEVELOPMENT PROGRAM

The Comer School Development Program is committed to the total development of all children by creating learning environments that support children's physical, cognitive, psychological, linguistic, social, and ethical development. The Professional Consultation and Development program provides various levels of training for New Haven teachers, administrators, and parents.

medicine.yale.edu/childstudy/communitypartnerships/comer/

YALE–NEW HAVEN TEACHERS INSTITUTE (YNHTI)

The Yale–New Haven Teachers Institute is an educational partnership designed to strengthen teaching and learning in New Haven public schools. Yale faculty members and New Haven teachers work together as colleagues in discussion seminars and the development of new curriculum units. The



seminars, which meet over a five-month period, are designed in response to teacher requests and have addressed topics across the sciences and humanities. Each participating teacher becomes an Institute Fellow and prepares a curriculum unit to be taught and published, which is widely disseminated and made available online. Fellows become members of the Yale community for one year, with library and other campus privileges, and receive a stipend upon successful completion of the Institute.

yale.edu/ynhti

YALE UNIVERSITY ART GALLERY TEACHER LEADERSHIP PROGRAM

In the Teacher Leadership Program, teachers explore innovative ways to connect their own interest in art, their curricula, and the gallery's collection. The program is free and meets the first Thursday of the month throughout the academic year. More than 500 teachers attended professional development programs at the museum that focused on inquiry-based teaching, critical thinking, and visual literacy skills.

artgallery.yale.edu/education-overview/k-12-educators

YALE UNIVERSITY ON ITUNES U

Yale University has a wide array of podcasts available from faculty, alumni, and distinguished visitors. Apple's iTunes distributes the university's podcasts, all free of charge. You can download episodes one at a time or you can subscribe to the entire series. Topics include arts and humanities, science and engineering, health and medicine, the environment, as well as other areas of interest.

broadcast.yale.edu/yale-itunes

YALE YOUTUBE CHANNEL

The Yale University YouTube channel supplies a variety of videos to the viewing public.

Covering anything from speeches and course lectures to videos made about happenings on campus, the Yale YouTube channel is a free way to experience all that Yale has to offer from your home computer.

youtube.com/yale



Place-Based Resources at Yale



In addition to serving a critical role in supporting teaching and learning for Yale faculty and students, many of Yale's extensive collections are made accessible to the public, enriching teaching and learning in the broader community. Thousands of local students take class visits to these sites every year—examining paintings up close at the Yale University Art Gallery and the Yale Center for British Art, learning about daily life in Ancient Egypt at the Yale Peabody Museum of Natural History, or observing Mars in the night sky at the Leitner Family Observatory and Planetarium.

These places welcome student visitors during out-of-school time as well, with admission to the galleries always free and open to the public. The Peabody Museum welcomes all visitors free of charge on Thursday afternoons, as well as for special community events like Fiesta Latina! and Summer's Last Roar. Likewise, the Leitner planetarium hosts weekly planetarium shows and public observing nights, where visitors are encouraged to peer through the telescope on clear nights to observe the planets or special celestial eclipses.

These institutions house only a portion of Yale's collections that are freely accessible to the public. The Cushing Center, located in Yale's Medical Library, honors Harvey Cushing, M.D., the founder of modern neurosurgery. On display are dramatic black-and-white portraits of his patients, as well as more than 400 jars containing specimen brains and the tumors he excised. The center offers weekly guided tours of its collection for the public. The Beinecke Rare Book and Manuscript Library is renowned for its Gutenberg Bible, permanently housed on the library's mezzanine, but also curates rotating exhibits drawn from its extensive collection.

For outdoor lovers, Yale's Marsh Botanical Garden, whose extensive plant collection supports ecological teaching and research at the university, hosts monthly Green Café events. Visitors to the urban farm on Yale's West Campus are welcome to come help tend the farm, harvest produce, or just relax. On scheduled volunteer days, the manager introduces the farm and provides helpful seasonal growing tips.

Beinecke Rare Book & Manuscript Library
beinecke.library.yale.edu
Collection of Musical Instruments
collection.yale.edu
Cushing Center
library.medicine.yale.edu/cushingcenter
Leitner Family Observatory and Planetarium
leitnerobservatory.yale.edu
Marsh Botanical Gardens
marshbotanicalgarden.yale.edu
Peabody Museum of Natural History
peabody.yale.edu
Sterling Memorial Library
web.library.yale.edu/building/sterling-library
West Campus Landscape Lab
landscapelab.yale.edu
Whitney Humanities Center
whc.yale.edu
Yale Center for British Art
britishart.yale.edu
Yale Repertory Theatre
www.yalerep.org
Yale Sustainable Food Project Farm
sustainablefood.yale.edu/the-yale-farm
Yale University Art Gallery
artgallery.yale.edu
Yale University Visitor Center
visitorcenter.yale.edu

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For more information about Yale community educational programming please visit onhsa.yale.edu or contact:

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