YALE UNIVERSITY
EDUCATIONAL PROGRAMS AND PARTNERSHIPS FOR NEW HAVEN YOUTH

Contributing To A Strong New Haven
onhsa.yale.edu
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; students take world language courses on campus, participate in the citywide science fair, explore our shared cultural heritage through visits to the Yale museums, attend lectures on weekends, and conduct research in Yale laboratories through summer internships. Yale faculty, staff, and students are actively engaged in these programs. As a primary sponsor of the 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. We invite you to learn more about the people, places, and innovative programming that enrich the educational opportunities for all of our students.

Sincerely,

Peter Salovey
President, Yale University
Building Comprehensive School Partnerships

Meaningful partnerships lie at the foundation of the work that we do. In recognition that we all benefit by forming one community of learners, our partnership with the New Haven Public Schools is founded on the goals of promoting access, communication, shared resources, and mutual learning. In 2010, the University announced a commitment as the primary sponsor of the New Haven Promise, a visionary scholarship and support program that promotes college education for New Haven students. This partnership now serves as a model for similar programs around the country. Following a meeting at the White House, during which National Economic Council Director Gene Sperling prompted discussion about the New Haven Promise, Yale President Peter Salovey remarked, “I am delighted to report that there was a high level of interest in what we are doing here in New Haven. If we can be a model for other universities and public school systems in developing innovative programs and pathways to educational achievement, I’m all for it.” Through New Haven Promise, eligible New Haven public school students receive full scholarships for tuition to any Connecticut public college or university, or a partial scholarship towards a private university education.

The University continues to build and strengthen the longstanding relationship between Hill Regional Career High School, a health sciences and business magnet school, and the Yale Schools of Medicine and Nursing. Formally established in 1996, this comprehensive partnership now brings more than 200 students to Yale’s campus during the academic year for classes, labs, and internships. The school’s Anatomy and Physiology classes take biweekly visits to a School of Medicine lab to study the structure and function of the human body by examining cadavers. The SCHOLAR summer program brings 60 Career High School students to campus for a two-week residential science program to prepare students for college success and careers in STEM fields.

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

BY THE NUMBERS
New Haven Promise

421 New Haven students inducted as Promise Scholars in the first 3 years of the initiative

17 Connecticut colleges and universities attended by Promise Scholars

40% Increase in total applicants for Promise Scholarships, from 369 in 2011 to 515 in 2014

84% Increase in number of African American males applying for Promise Scholarships, from 62 in 2012 to 114 in 2013
Yale University’s partnership with Cooperative Arts and Humanities High School, an interdistrict magnet high school located in the heart of New Haven, aims to enrich the artistic and academic experiences of Co–Op students and faculty by forging relationships with local arts institutions and fostering a 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; music students receive training from world-class musicians from the School of Music. Moreover, visiting artists—professional actors, playwrights, photographers, dancers, and novelists—come to Co-Op to perform and lead master classes. In partnership with the Beinecke Library, the winners of the Windham Campbell Literature Prizes annually visit Co-Op to take part in a panel discussion moderated by students and lead workshops for aspiring writers at the school.

What began as a standalone playwriting program at the school in 2005 now forms the cornerstone of this comprehensive partnership. The O’Neill Playwriting Program brings School of Drama playwrights and Yale undergraduates into creative writing and theater classes to teach playwriting workshops during the spring semester. Each May, these Yale mentors and a group of 30 Co-Op students and teachers attend a weekend retreat at the two-time Tony Award-winning Eugene O’Neill Theater Center in Waterford, Connecticut, where the weekend’s activities center around an intensive playwriting curriculum developed by Pulitzer Prize-winning playwright Paula Vogel. Each fall, the Yale mentors return to Co-Op to lead an after school program, working to hone the students’ plays. At the same time, Yale undergraduates are working on their own plays, which are rigorously workshopped by the graduate student playwrights. World-class actors from the School of Drama bring their plays to life during the Annual Festival of New Work, a series of staged readings held annually at the Yale Cabaret as the culminating event to the yearlong program.

More than half of the student body, nearly 350 students, participate in Co-Op After School (CAS) programming each semester. A truly collaborative endeavor, CAS offers more than 35 different programs to students each semester, ranging from bhangra dance and improv comedy, to ceramics, cooking, debate, chess, and a cappella singing. More than half of the student body participates in after school programming each semester. Program instructors include Co-Op faculty, Yale graduate and undergraduate students, and New Haven community members.

CO-OP AFTER SCHOOL (CAS)
CAS offers nearly 40 after school programs for Co-Op students each semester, ranging from bhangra dance and improv comedy, to ceramics, cooking, debate, chess, and a cappella singing. More than half of the student body participates in after school programming each semester. Program instructors include Co-Op faculty, Yale graduate and undergraduate students, and New Haven community members.

EAST ROCK RECORD JOURNALISM PROGRAM
The East Rock Record is the school newspaper produced by 30 student reporters in grades 2-8 at East Rock School. Students work with mentors from Cooperative Arts and Humanities High School and Yale University to brainstorm, plan, report, and write stories of interest to the school community. Two editions of the newspaper are published each academic year, with 3,500 copies printed and distributed throughout the school and New Haven communities.

ACADEMIC YALE UNIVERSITY COLLEGE COURSES
Qualified New Haven high school juniors and seniors can enroll in Yale academic courses. Participating students receive a full scholarship covering tuition costs. The 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.

COOPERATIVE ARTS AND HUMANITIES HIGH SCHOOL PARTNERSHIP
Now in its fifth year, Yale’s partnership with Cooperative Arts and Humanities High School aims to enrich the artistic and educational experiences for Co-Op High School students and faculty by developing meaningful collaborations between the Yale and Co-Op communities. An on-site partnership coordinator assists teachers and students in program planning and works to enhance the breadth and depth of programming. Flagship partnership programs include the O’Neill Playwriting Program, the Yale Co-Op Dance Collaborative, the East Rock Record student journalism program, and the Artist-In-Residence program. The partnership is supported by various stakeholders including the Beinecke Library, the Yale School of Drama, the Yale University Art Gallery, the Yale Center for British Art, the Yale Peabody Museum of Natural History, and Dwight Hall at Yale.

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O’NEILL PLAYWRITING PROGRAM
The O’Neill Playwriting Program is a yearlong program that brings eight Yale School of Drama and Yale College playwrights into Co-Op classrooms in the spring to lead playwriting workshops with more than 100 creative writing and theater students. In May 2013, a record 22 Co-Op students were accepted to the competitive annual O’Neill Playwriting Retreat at the Eugene O’Neill Theater Center in Waterford, CT, where students participated in an intensive playwriting program developed by the Pulitzer Prize-winning playwright Paula Vogel. In the fall, students and mentors work together after school to develop and hone student plays. The program culminates with the Annual Festival of New Work, where high school and undergraduate student plays are read and performed by Yale School of Drama actors.

YALE CO-OP DANCE COLLABORATIVE (YCDC)
The Yale Co-Op Dance Collaborative features a core group of Yale dancers who showcase a variety of dance styles in an after school program for Co-Op students from all arts disciplines. As they learn new techniques, students develop their own choreography for the annual Community Dance Concert in April. The concert brings together dancers from Co-Op, Yale, and the New Haven community for a collaborative performance on the Co-Op Main Stage.

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 member 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. dwighthall.org

DWIGHT HALL PUBLIC SCHOOL INTERNSHIP PROGRAM
Students in the Public School Internship Program serve in a critical role as liaisons between a New Haven public school and the Yale community by strengthening current volunteer efforts and finding new ways to match resources at Yale with the needs of the school. Interns provide such resources as individual tutors, professional development for teachers, and special programming to enrich current classroom lessons. Interns are placed at 15 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 and State Affairs.
dwighthall.org/fellowships

HILL REGIONAL CAREER HIGH SCHOOL PARTNERSHIP
The Yale partnership with Hill Regional Career High School, a health sciences magnet school in New Haven, provides more than 200 high school students with the opportunity to spend time on Yale’s campus in classes, laboratories, and structured internships during the school year. Each year 20 Yale faculty members and 50 Yale undergraduate, medical, and nursing students tutor and support eight different courses, including Human Anatomy and Physiology, that are offered for credit at the school.

ANATOMY TEACHING PROGRAM
Yale medical students and faculty teach an anatomy class to Hill Regional Career High School students. Junior and senior high school students enrolled in Anatomy and Physiology visit the Yale Medical School twice per month to access the lab facilities. Lab activities range from observation of dissected cadavers to use of the slides and microscopes in the histology laboratories.

FIRST ROBOTICS COMPETITION: 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, math, engineering, and technology.

SCHOLAR
The Yale summer SCHOLAR program brings 120 high school students from New Haven, West Haven, and Amity Public Schools to live and study science for two weeks on the Yale 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. SCHOLAR provides an intensive, hands-on science curriculum that emphasizes discovery, critical thinking and problem solving. The curriculum is designed by Yale University faculty, graduate and professional students, and teachers from local public schools. Yale undergraduate students serve a vital role as teaching assistants and mentors. Students in SCHOLAR are automatically enrolled into the Yale Pathways to Science program.
onhsa.yale.edu/scholar

NEW HAVEN PROMISE
Yale is a founding and primary sponsor of the New Haven Promise, the only scholarship program of its kind in Connecticut. Promise provides scholarships for residents and graduates of New Haven Public Schools and approved charter schools. Students meeting certain achievement, attendance, community service, and disciplinary requirements are eligible for full tuition for in-state public colleges or up to $2,500 annually for in-state private colleges. In the first three years of the program, 400 students are now pursuing higher education with a Promise Scholarship. A key to New Haven’s future, Promise is revitalizing the City of New Haven through increased 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 the science, technology, engineering and math, Yale Pathways to Science opens the door for middle and high school students to explore science at Yale University. The 950 Pathways students are considered the youngest members of Yale’s community of scientists 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 50 different programs annually through their high school graduation and beyond, choosing to participate in the opportunities that interest them most. yale.edu/scienceoutreach

YALE READING CORPS AT WEXLER-GRANT SCHOOL
Through the Yale Reading Corps, two dozen Yale undergraduates serve directly as teaching assistants in classrooms at Wexler-Grant School—they are a teacher’s right hand in the classroom for several hours per week. Fully integrated into the educational environment, students support the teacher’s activities by helping prepare class materials or working with individual or small groups of students. In addition, the program supports the school’s literacy efforts by hosting Family Literacy Nights and sponsoring book fair events for students to expand their home libraries. onhsa.yale.edu/reading-corps
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 fields. 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 950 students in sixth through twelfth grades, 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 first-hand 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 scientific outreach, Pathways to Science has built a coalition across scientific departments dedicated to supporting young scholars towards achieving success in science. Students are invited to more than fifty free programs and events each year, which, through hands-on scientific activities, demonstrations and lectures, and research opportunities, foster curiosity and support students in honing the skills necessary for scientific inquiry. Three flagship annual events encourage students to explore multiple areas of STEM and learn about the cutting-edge research in each field: Chemistry Open House, Engineering Day, and Brain Education Day. At these events, students tour Yale laboratories and meet with the professors and students who work there. These faculty and students 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. The newest Pathways program, New Haven Bridge to Success, brings recent high school graduates to Yale for a six-week residential program that exposes students to the science curriculum typical of a first-year in a STEM major. As undergraduates, students are also invited to return to Yale’s campus through summer research internships in Yale laboratories.

Pathways to Science has taught me firsthand how scientists work and has helped me to understand science in a way school hasn’t. I always learn something new.

—Yale Pathways to Science Student
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 open to all middle school girls, GSI holds four Saturday sessions each year, each attracting more than 200 girls. 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 Invisible World” and “The Quantum World.” Through engaging demonstrations and hands-on experiments in a laboratory environment, girls investigate how to write with fire or boil water with ice. At left, a student conducts an experiment to learn about “The Electromagnetic World.” All activities are designed to help students visualize the concepts they are studying, allowing girls to gain confidence in their abilities to become scientists and begin to imagine their own future as part of the scientific community.

**ACADEMIC YALE UNIVERSITY COLLEGE COURSES**
Qualified New Haven high school juniors and seniors can enroll in Yale academic courses. Participating students receive a full scholarship covering tuition costs. The 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. Junior and senior high school students enrolled in Anatomy and Physiology visit the Yale Medical School twice per month to access the lab facilities. Lab activities range from observation of dissected cadavers to use of the slides and microscopes in the histology laboratories. This program is part of Yale’s partnership with Hill Regional Career High School.

**ASTRONOMY PUBLIC OBSERVING NIGHTS**
Every Tuesday and Sunday night, the Leitner Family Observatory and Planetarium presents shows in the planetarium theater that are free and open to the public. Following the show on Tuesday nights, participants are invited to observe the night sky through one of the Observatory’s telescopes. leitnerobservatory.org

**BRAIN EDUCATION DAY**
Brain Education Day is an annual neuroscience event for students in the Yale Pathways to Science program. Students explore the brain with Yale’s top neuroscientists and students, tour Yale science laboratories, and learn brain anatomy through specimen dissection. Session topics include comparative neuroanatomy, neurophysiology, and sensation and perception. Parents are also invited to a discussion on How to Prepare your Child for College with Dean Michelle Neehrn. yale.edu/scienceoutreach

**CHEMISTRY OPEN HOUSE**
Chemistry Open House is an annual event for students in the Yale Pathways to Science program and their families and friends. Students tour Yale chemistry laboratories and meet with the Yale professors and students who work there. Session topics give students the opportunity to learn about high-powered lasers, superconducting magnets, the human eye, and much more. yale.edu/scienceoutreach

**Crisp K-12 Programs**
CRISP (Center for Research on Interface Structures and Phenomena) sponsors many activities and events throughout the year that provide students with an increased awareness of the importance of materials science in their everyday lives through classroom presentations, laboratory demonstrations and open house events, New Haven Science Fair mentorship, a public lecture series, and exciting hands-on workshops. Young students discover that the science of materials is everywhere.
around them, particularly at the forefront of cutting edge technology.
crisp.yale.edu/index.php/K-12

CRISP HIGH SCHOOL RESEARCH FELLOWSHIP
The CRISP High School Research Fellowship provides rising high school juniors and seniors with the opportunity to conduct team-based interdisciplinary materials science research. Participating students conduct a four-week research project as members of a research team that also includes university faculty and undergraduate and graduate students. crisp.yale.edu/index.php/High_School_Research_Fellowship

CRISP PROFESSIONAL DEVELOPMENT FOR TEACHERS
CRISP professional development workshops provide specialized training to practicing scientists and science educators at all levels. Several workshops are offered each semester with the overarching theme of integrating interdisciplinary science into the classroom. Recent workshops have included “Special Education in Teaching Science” and “21st Century Approach to Teaching Electricity and Magnetism: Real World Applications.” CRISP also provides curricular resources and lab and demo kits for STEM classrooms. ares.southernct.edu/crisp/index.php/Professional_Development

CRISP RESEARCH EXPERIENCES FOR TEACHERS FELLOWSHIP
The CRISP Research Experiences for Teachers program is a four-week summer research experience for local 8th–12th grade and community college STEM teachers. The fellowship supports the active involvement of K-12 STEM teachers in research in order to bring knowledge of materials science, engineering and technological innovation into their classrooms. Teachers conduct research alongside CRISP faculty and graduate students, with the goal of building long-term collaborative partnerships between K-12 STEM teachers, community college faculty, and the university research community. ares.southernct.edu/crisp/index.php/RET_Program

CRUSHING CENTER AT THE YALE SCHOOL OF MEDICINE
Named for Yale College graduate Dr. Harvey Cushing—regarded as the father of modern neurosurgery—this exhibit includes more than 400 specimen jars of patients’ brains and tumors, Cushing’s surgical illustrations, personal diaries, black and white patient photographs, memorabilia, as well as historical anatomical and medical materials. Cushing’s collection of over 15,000 volumes in science and medicine contains medical and scientific works ranging from 11th-century manuscripts through 19th-century monographs. cushingcenter.medicine.yale.edu/

DEMS
Yale student volunteers teach weekly science classes at local New Haven elementary schools, using striking demonstrations and hands-on activities to teach basic science principles. The Demos group also performs science assemblies and planetarium demonstrations and runs biannual daylong science festivals for New Haven families. yale.edu/demos

DISCOVERY TO CURE HIGH SCHOOL INTERNSHIP
The program exposes students to laboratory research and promotes interest in science and medicine. Rising high school seniors spend six weeks working in a laboratory with a research scientist utilizing research techniques such as gel electrophoresis, RTPCR, immunohistochemistry, and electron microscopy. Since its inception in 2003, a total of over 260 high school students, undergraduates and high school teachers have successfully completed the Program. Several interns have presented their research work at science fairs and approximately 20% of student interns have published their findings in peer-reviewed scientific journals. medicine.yale.edu/obgyn/discovery/education/internship.aspx

DISCOVERY TO CURE HIGH SCHOOL TEACHER INTERNSHIP
Connecticut high school science teachers have the opportunity to do research in a lab at Yale University during the summer to further their knowledge of science. medicine.yale.edu/obgyn/discovery/education/teacher.aspx

ENGINEERING DAY
Engineering Day is an annual event for middle school students in the Yale Pathways to Science program. Students tour engineering labs at Yale, learn about cutting-edge research in the many different areas of engineering, explore the diverse roles of today’s engineers, and try their hand at an engineering design challenge with Yale graduate students. yale.edu/scienceoutreach

EVOLUTIONS
Evolutions is a free after school program at the Peabody Museum of Natural History for New Haven and West Haven high school students. It places a primary focus on college preparation, science literacy, and transferable skills development. Annual projects include the mounting of a student-designed exhibition at the Peabody Museum and student-produced videos intended to teach science concepts to elementary-aged students. Students also have the opportunity to visit regional science centers and participate in an annual four-day college visitation trip. Students can receive academic and community service credit at their schools for participating.
Upon completion of their first year of the program, students are eligible for further opportunities at the Peabody Museum, including SciCORPS, internships, and placement in special topic tracks. All Evolutions students are automatically also enrolled into the Yale Pathways to Science program.

peabody.yale.edu/evol

FIRST ROBOTICS COMPETITION: 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, math, engineering, and technology. This program is part of Yale’s partnership with Hill Regional Career High School.

Girls’ Science Investigations (GSI)
Girls’ Science Investigations is a program that empowers and interests girls in science by giving them both guidance and hands-on experience. On several 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 Invisible World” and “The Quantum World.” Yale University professors and students teach the programs, conduct demonstrations, and lead the girls in hands-on activities in laboratory environments. gsi.sites.yale.edu

HackYale
HackYale is a student-run organization that offers lectures and workshops in web development, introductory programming, and design to high school computer science courses and Yale Pathways to Science students. hackyale.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 also 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 nationwide high school science enrichment program aimed at recruiting African-American, Native American, and Latino high school students into careers in the sciences and health professions. Each year more than 30 New Haven high school students attend eight Saturday sessions run by Yale University minority medical students. Students participate in small group discussions on various health topics within medicine and public health. A special emphasis is placed on health issues disproportionately affecting minority communities.

meditation.yale.edu/nmandlmis/HPREP.html

Leitner Family Observatory and Planetarium
The Leitner Observatory is a facility of the Yale Department of Astronomy dedicated to education, public outreach, and student research. The planetarium is used to teach astronomy concepts to undergraduate classes, to present programs for school groups in the New Haven area, 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 and Sunday afternoon.

leitnerobservatory.org

Marsh Botanical Garden
Sitting on eight acres, with six greenhouses comprising 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.

yale.edu/marshgardens

Math Mornings
Math Mornings is a series of public lectures aimed at bringing the joy and variety of mathematics to students and their families. Speakers from Yale and elsewhere talk about aspects of mathematics they find fascinating or useful. Before each lecture, Yale students lead math demonstrations and games.

math.yale.edu/math-mornings

MathCounts Outreach
Mathcounts is a national middle school math enrichment program and competition. Yale students lead weekly after school sessions for small classes of middle school students at 22 New Haven 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 competition in the spring.

mathcountsoutreach.org

New Haven Bridge to Success Program (NHb2SP)
NHb2SP is a free six-week summer residential program at Yale for recent New Haven public high school graduates who have participated in the Yale Pathways to Science program. The program targets students who demonstrate ability and interest to pursue science-related careers and professions, especially in the medical field. The goal of NHb2SP is to prepare students for their first year as STEM majors. In the program, students participate in small seminars and study groups, building an academic community where high standards and expectations are the norm.

medicine.yale.edu/education/lomca/summer/NHb2SP.aspx

New Haven Science Fair
The annual citywide science fair is held in May at Yale University’s Commons. In conjunction with the science fair event, the New Haven Science Fair Program offers mentoring for students and professional development for teachers on investigative hands-on science fair projects that promote skills in critical thinking, the scientific process, and research communication. In 2019, more than 7,000 New Haven students and 43 schools participated, utilizing more than 160 volunteers for mentoring and judging. The program also supports Family Science Nights.

nhsciencefair.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 science at Yale University. The 950 Pathways students are considered the youngest members of Yale’s community of scientists 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 50 different programs annually through their high school graduation and beyond, choosing to participate in the opportunities that interest them most.

yale.edu/scienceoutreach

Pathways Peabody Summer Youth Institute
Pathways Peabody Summer Institute is an annual weeklong summer day program for middle school students in the Yale Pathways to Science program at the Peabody Museum. Students are given the opportunity to learn about natural and cultural history in a relaxed setting, through fun and engaging hands-on experiences. The Museum’s world-class collections and exhibits serve as a truly unique backdrop to each week’s program. Students explore and experience a mix of interactive learning activities, field trips, and creative arts projects.

yale.edu/scienceoutreach
PEABODY MUSEUM OF NATURAL HISTORY
The Yale Peabody Museum of Natural History features a diverse collection, including dinosaur skeletons, Egyptian mummies, dioramas of North American wildlife, and permanent exhibits on our planet and solar system. The Peabody houses several internationally important collections, most notably its paleontology collections, which are the third largest and rank among the most historically important fossil collections in the nation. 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 major cultural events, most notably the Annual Dr. Martin Luther King, Jr.’s Legacy of Environmental and Social Justice event in January and Fiesta Latina in October. Both events are free and open to the public and draw more than 8,000 people to the museum. Other annual events include Summer’s Last Roar and Biodiversity Day. The Peabody Museum also sponsors numerous lectures and talks throughout the year.
peabody.yale.edu/events

PEABODY MUSEUM COMMUNITY EDUCATION CENTER AT YALE’S WEST CAMPUS
Established in 2009, the Community Education Center features more than 3,000 square feet of classroom, presentation, and laboratory space, and offers many science and natural history programs for students. Many programs take place outdoors at the Oyster River Outdoor Classroom, a forested wetland corridor on West Campus that provides opportunities for hands-on habitat studies, biological investigations, and seasonal nature walks.
peabody.yale.edu/education/west-campus-programs

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 public schools in the New Haven area from September through March.
peabody.yale.edu/education/school-group-visits

PEABODY FELLOWS
This professional development program offers elementary, middle, and high school teachers innovative curricula and hands-on, inquiry-based learning methods that link biodiversity with Connecticut’s life and earth science standards. Recent program themes have included “Climate Change and Patterns of Vector-Borne Disease,” “Solar System Investigations,” and “Strength in Numbers: How to Use Museum Specimen Data in the Classroom.” Participants attend a weeklong teacher institute and receive a stipend, use of museum specimens and ongoing support from the Peabody’s educators.
peabody.yale.edu/teachers

PEABODY ON THE ROAD
Peabody on the Road is an award-winning community outreach program that brings a sampling of the Peabody Museum’s artifacts and specimens to local public events including fairs, libraries, and school science nights. In 2013, the program visited 32 venues, drawing between 50 and 200 people to each event.
peabody.yale.edu/education/peabody-road-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. Breaking away from traditional scientific teaching, Resonance presents science in a way that is applicable to students’ daily lives and future goals.
yale.learningu.org/resonance/main.html

SCHOLAR
The Yale summer SCHOLAR program brings 120 high school students from New Haven, West Haven, and Amity Public Schools to live and study science for two weeks on the Yale 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. SCHOLAR provides an intensive, hands-on science curriculum that emphasizes discovery, critical thinking and problem solving. The curriculum is designed by Yale University faculty, graduate and professional students, and teachers from local public schools. Yale undergraduate students serve a vital role as teaching assistants and mentors. Students in SCHOLAR are automatically enrolled into the Yale Pathways to Science program.
onhsyale.yale.edu/scholar

SCICORPS
SciCORPS (Science Career Orientation & Readiness Program for Students) is a career ladder program through which participants receive paid work experience as science interpreters in the Peabody Museum. Participants begin at the volunteer rung as Museum Apprentices, to develop basic job and communication skills and shadow more experienced peers. They are then promoted to paid Museum Interpreters, where they teach visitors the science of the exhibits through hands-on carts and activities. A select group of students are also offered paid internships.
in Yale science laboratories. Interns work alongside and are mentored by Yale faculty and graduate students in both field and lab work, engaging in over 100 hours of authentic scientific research. The experience culminates in a research symposium held at the Peabody Museum.

peabody.yale.edu/education/evolutions/yale-internships-sicorps-career-ladder-program

SCIENCE EDUCATION OUTREACH PROGRAM (SEOP)
SEOP brings Yale graduate students and post-doctoral fellows into New Haven 7th grade classrooms to lead hands-on genetics projects. It aims to teach students about DNA and genetics, enhance students’ enthusiasm for science, and provide interactions with scientists to demystify stereotypes. Lesson topics include Genotype and Phenotype, Chromosome Structure and Mitosis, and DNA and Molecular Biology.

seop.yale.edu

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. 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. Past lecture topics have included “Fracking: Energy Angel or Environmental Demon,” “Mind Reading: Can We Do It? Should We?,” and “Actions Speak Louder Than Genes: How Your Behavior Can Change Your DNA.”

sites.google.com/site/sciencediplomats/

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 “Why Birds Are Dinosaurs,” “Viruses: The Good, the Bad and the Ugly,” “The Universe in Your Hands,” and “Your DNA: Sense or Nonsense?”

synapse.yale.edu

SYNAPSE
Synapse is the educational outreach arm of Yale Scientific Magazine and aims to inspire New Haven public school students to pursue science, research, and scientific journalism. Synapse conducts science demonstrations at six Science on Saturdays events each year and sponsors an annual essay contest for high school students to have their writing published in the Yale Scientific Magazine. Synapse also organizes the annual Resonance program, a day of science enrichment at Yale for high school students.

ysap.synapse.org

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usgrant.commons.yale.edu

URBAN RESOURCES INITIATIVE (URI)
Urban Resources Initiative is a not-for-profit university partnership between the School of Forestry and Environmental Studies at Yale and the city of New Haven whose 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. As of 2009, the City of New Haven adopted the URI curriculum “Open Spaces as Learning Places” as mandatory instruction for all New Haven public school 6th grade students. URI partners with Common Ground High School and the Sound School for the GreenSkills program, a local green jobs program that employs high school students and ex-offenders through the planting of trees, working towards the goal of the TreeHaven 10K Campaign to plant 10,000 trees throughout New Haven.

yale.edu/uri

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, and is home to free-ranging chicken flocks and honeybees. 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 firsthand. The Farm hosts workshops, seminars, volunteer workdays, and tours for local schools.

yale.edu/sustainablefood/farm

YALE PHYSICS OLYMPICS
The theme of the annual Yale Physics Olympics, a competition open to high schools across the region, is “Physics is fun!” The event takes the form of a pentathlon, consisting of five 40-minute events in which students perform a task or simple experiment utilizing basic ideas from physics. Fifty teams are selected to participate in the competition, hailing from schools across Connecticut, Massachusetts, Rhode Island, and New York.

yale.physics/olympics

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yale.synapse.org

YPO Sites

YPO/sites.yale.edu

Rhode Island, and New York.

Yale physics olympics

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yale.physics/olympics

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yale.synapse.org

YPO Sites

YPO/sites.yale.edu

Rhode Island, and New York.
Promoting Creativity Through the Arts and Humanities

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. The WILLPOWER program brings middle and high school classes to performances at the Yale Repertory Theater. After the performance, students have a chance to engage in discussions with the actors. Teachers and students highly enjoyed the recent production of Hamlet. One teacher shared a student’s feedback after the performance, “I wish you could have heard the buzz today all over the school... ‘Now I know what you always talk about in class: ‘It’s about the language.’ I really heard it today and now I know what you mean!” As part of the program, teachers receive tailored professional development to connect the performance to their classroom curriculum.

Being part of the Dwight/Edgewood Project has really helped me improve my writing skills which is my least strongest subject and I have learned to enjoy it...This program is one of the best programs I have ever been in.

—6th Grade Student Playwright, Dwight/Edgewood Project
Research has shown that providing students access to a high-quality music education can have long-lasting benefits for student achievement and enhance student learning across other core academic areas. The Music In Schools Initiative has long-standing relationships with three New Haven schools: John C. Daniels School, Cooperative Arts and Humanities High School, and Lincoln-Bassett School. Each year, Music In Schools partners teaching artists from the School of Music with music teachers in these schools and many more each year depending on teacher requests. Teaching artists complement the work of full-time teachers, leading group lessons, working one-on-one with individual students, and assisting with activities like music theory and ear training or other activities depending on the needs of the school in which they are placed.

BY THE NUMBERS
Music in Schools

17 New Haven public elementary, middle and high schools partner with Music in Schools to bring teaching artists into their classrooms

56 School of Music graduate students serve as teaching artists in New Haven public schools

375 Students are directly impacted by the presence of Music in Schools teaching artists in their classrooms each year

ACADEMIC YALE UNIVERSITY COLLEGE COURSES
Qualified New Haven high school juniors and seniors can enroll in Yale academic courses. Participating students receive a full scholarship covering tuition costs. The 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.

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 5–12 are eligible to audition for the ensembles each October. The program culminates in an annual spring concert held at Yale’s Sprague Hall.

CO-OP AFTER SCHOOL (CAS)
CAS offers nearly 40 after school programs for Co-Op students each semester, ranging from bhangra dance and improv comedy, to ceramics, cooking, debate, chess, and a cappella singing. More than half of the student body participates in after school programming each semester. Program instructors include Co-Op faculty, Yale graduate and undergraduate students, and New Haven community members. CAS is supported by the Yale/Co-Op Partnership.

DWIGHT/EGEWOOD 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. Yale School of Drama students lead the program, serving as mentors, stage managers, and theatre technicians. The program culminates in June with the presentation of eight original plays over two evenings of free performances.

EAST ROCK RECORD JOURNALISM PROGRAM
The East Rock Record is the school newspaper produced by 30 student reporters in grades 2-8 at East Rock School. Students work with mentors from Cooperative Arts and Humanities High School and Yale University to brainstorm, plan, report, and write stories of interest to the school community. Two editions of the newspaper are published each academic year, with 3,500 copies printed and distributed throughout the school and New Haven communities. The East Rock Record is a program of the Yale/Co-Op Partnership.

HEMISPHERES
Hemispheres brings more than forty 8th-12th grade students from New Haven public schools to Yale’s campus every week to explore topics in international affairs and develop students’ analytical, creative, and critical thinking skills. As part of Hemispheres, students participate in the Yale Model United Nations conference.
INSTRUMENTAL CONNECTION
Instrumental Connection leads music lessons in New Haven schools, teaching instruments ranging from violin to voice to bongos. The program culminates with a recital in April to showcase students' work.
yale.edu/ic

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.
www.law.yale.edu/stuorgs/marshall-brennan.htm

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 5th through 11th grades who play piano, woodwind, brass, string, and percussion instruments.
music.yale.edu/community/music-in-schools/morse-academy

MUSIC IN SCHOOLS
During the academic year, the Music in Schools Initiative places Teaching Artists from the Yale School of Music in more than thirty 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

O’NEILL PLAYWRITING PROGRAM
The O'Neill Playwriting Program is a yearlong program that brings eight Yale School of Drama and Yale College playwrights into Co-Op classrooms in the spring to lead playwriting workshops with more than 100 creative writing and theater students. In May 2013, a record 22 Co-Op students were accepted to the competitive annual O'Neill Playwriting Retreat at the Eugene O'Neill Theater Center in Waterford, CT, where students participated in an intensive playwriting program developed by the Pulitzer Prize-winning playwright Paula Vogel. In the fall, students and mentors work together after school to develop and hone student plays. The program culminates with the Annual Festival of New Work, where high school and undergraduate student plays are read and performed by Yale School of Drama actors. The O'Neill Playwriting Program is part of the Yale/Co-Op Partnership.

PIER COOPERATIVE INTERNATIONAL STUDIES PROGRAM
The Cooperative International Studies Program (CISP) is an interdistrict program that gives high school students the opportunity to explore issues of global importance through workshops, student exchanges and field trips, collaboration in sister school teams on research projects, and meetings with CISP teachers at their home schools. Past sessions topics have included migration, international celebrations, sports and games, martial arts, art and architecture, and global economies.
yale.edu/macmillan/pier/cisp

PIER HIGH SCHOOL COOPERATIVE LANGUAGE PROGRAM
The High School Cooperative Language Program offers language and cultural exposure in ten less commonly taught languages including Arabic, Chinese, German, Italian, Japanese, Kiswahili, Polish, Portuguese, Russian, and Turkish. 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, and currently serves 60 New Haven students.
yale.edu/macmillan/pier/hscp

SPASH 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 in a variety of both conventional and unconventional subjects taught by Yale undergraduate and graduate students. Students get to learn about thingsthat 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 recently launched 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

SYMPOSIUM ON MUSIC IN SCHOOLS
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. The Symposium brings together fifty distinguished music teachers from around the country. These teachers are nominated by their districts and are selected for their outstanding accomplishments teaching music in public schools. Teachers are invited to travel to New Haven, all expenses paid, to attend the Symposium. For four days in June, the distinguished music educators convene to participate in a variety of workshops, discussions, and other events. They are joined by local New Haven Public School music teachers. Discussions focus on pressing issues in the field of music education.
music.yale.edu/community/music-in-schools/symposium
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usgrant.commons.yale.edu

URBAN DEBATE LEAGUE
The Urban Debate League seeks to promote debate in New Haven public schools in order to increase students’ research, public speaking, and critical thinking skills. Coaches work weekly with teams in ten New Haven high schools, focusing on a different topic and set of debating skills 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

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

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.
brbritishart.yale.edu/

EXPLORING ARTISM PROGRAM
Exploring Artism is a free program at the Yale Center for British Art for families with children on the autism spectrum. Developed in consultation with the Yale Child Study Center, the program adopts a multisensory approach to teaching students about paintings in the galleries. Participants have the opportunity to discuss the paintings and then engage in a craft activity related to a painting they have seen.
brbritishart.yale.edu/education/children-and-families

YALE CENTER FOR BRITISH ART FAMILY PROGRAMS
The Yale Center for British Art sponsors several annual events for families and children. The annual Children’s Film Festival features inspiring and award-winning short films for a young audience, with popcorn and live entertainment before the show. The High Seas and High Tea program invites children to dress up and come to the museum for a morning activities and make-your-own treats.
brbritishart.yale.edu/education/children-and-families

GUIDED TOURS FOR K-12 SCHOOL GROUPS
The educational programming at the Yale Center for British Art is designed to support literacy instruction and complement curriculum goals and standards. Each year, every 3rd grade student in New Haven visits the YCBA twice. Bringing art into the learning process builds students’ inquiry, observation, description, and analysis skills. The YCBA offers free guided tours of its collection for school groups.
brbritishart.yale.edu/education/schools-and-teachers/school-tours

SUMMER CHILDREN’S ART PROGRAM
Each summer, the Yale Center for British Art offers two weeklong workshops for young students. Students experiment with drawing, collage, and printing, drawing inspiration from works of art in the museum.
brbritishart.yale.edu/education/children-and-families
**Yale Center for British Art Summer Teacher Institute**
The Yale Center for British Art Summer Teacher Institute offers K-8 teachers an enriched understanding of how visual art can support reading, writing, and thinking. Workshops led by university faculty, museum curators, and educators demonstrate how visual texts can be utilized in the classroom to enhance literacy instruction. [britishart.yale.edu/education/schools-and-teachers/programs-for-teachers](http://britishart.yale.edu/education/schools-and-teachers/programs-for-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 curriculum. The purpose of the group is to share experiences, research, and resources and to work towards an expanded notion of literacy that includes making meaning from visual as well as written texts. [britishart.yale.edu/education/schools-and-teachers/programs-for-teachers](http://britishart.yale.edu/education/schools-and-teachers/programs-for-teachers)

**Yale Children’s Theater**
Yale student volunteers run theater workshops, a traveling improvisation and story troupe, and a school play program where children write and perform a major production. The Yale Children’s Theater also offers New Haven students free admission to one showing of each of its five annual performances. Programming reaches hundreds of students each year. [yalechildrenstheater.org](http://yalechildrenstheater.org)

**Yale Daily News Summer Journalism Program**
Run by members of the Yale Daily News, the Summer Journalism Program is a weeklong intensive journalism program for high school students. Students participate in workshops, attend lectures by guest speakers from major national publications, and together create a full summer edition of the Yale Daily News by the end of the week. [yaledailynews.com/about-us/sjp](http://yaledailynews.com/about-us/sjp)

**Yale Co-Op Dance Collaborative (YCDC)**
The Yale Co-Op Dance Collaborative features a core group of Yale dancers who showcase a variety of dance styles in an after school program for Co-Op students from all arts disciplines. As they learn new techniques, students develop their own choreography for the annual Community Dance Concert in April. The concert brings together dancers from Co-Op, Yale, and the New Haven community for a collaborative performance on the Co-Op Main Stage. YCDC is a program of the Yale/Co-Op Partnership. [globalscholars.yale.edu](http://globalscholars.yale.edu)

**Yale University Art Gallery**
The Yale University Art Gallery has more than 4,500 works of art on view from cultures all over the world. The 185,000 objects in its permanent collection range from American decorative arts and American painting to African art and art of the ancient Americas. In addition to its permanent collection, the gallery also has educational programs, special exhibitions, study rooms, and museum archives. The museum is free and open to the public. [artgallery.yale.edu/](http://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. Last year, nearly 1,800 people participated in family programs at the museum. At the monthly Stories and Art event, Yale University Art 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. Children are provided with drawing materials as tales of distant times and faraway lands inspire children to view art in new ways. The annual Family Day at the Yale University Art Gallery invites families to explore the collection and building together through tours, storytelling, and art-making activities. [artgallery.yale.edu/education-overview/kids-and-families](http://artgallery.yale.edu/education-overview/kids-and-families)

**Yale Young Global Scholars**
The Yale Young Global Scholars Program is a two-week summer program at Yale for high achieving high school students. YYGS is an academic and leadership development program that is designed to bring together students to help them make meaningful impacts as young leaders, even before they begin college. Program sessions give students opportunities to recognize and understand contemporary global issues, strategize responses, and innovate solutions while learning from renowned practitioners and Yale faculty members in a range of fields. [globalscholars.yale.edu](http://globalscholars.yale.edu)

**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 and discussion of works of art and are tied to Connecticut learning standards. This past year, more than 12,000 K-12 students visited with their classes and as part of after school programs. [artgallery.yale.edu/k-12-class-visits](http://artgallery.yale.edu/k-12-class-visits)

**Yale University Art Gallery Teacher Leadership Program**
In the Teacher Leadership Program, teachers explore innovative ways to connect their own interests in art, their curricula, and the Gallery’s connection. The program is a free and meets monthly throughout the academic year. Last year, more than 500 teachers attended professional development programs at the museum. [artgallery.yale.edu/education-overview/k-12-educators](http://artgallery.yale.edu/education-overview/k-12-educators)
When students can see how what they learn in school applies to the wider world, students 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 Hillhouse High School and Cooperative Arts and Humanities High School. At the end of the program, students participate in a national moot court competition. This past year, New Haven students took home both the national championship and first runner-up awards. Prior to the competition, students had the opportunity to practice their arguments before three Yale Law School professors.

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 your 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 to be.

—High School Junior in the Peabody Evolutions Program

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 and mount their own exhibition at the museum, take field trips to nearby science centers, and participate in an annual four-day college visitation trip. Because of their participation in the Evolutions program, a number of students go on to hold internships as science interpreters in the Peabody Museum or conduct research in laboratory internships.
ACADEMIC YALE UNIVERSITY COLLEGE COURSES
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BIG BROTHERS/BIG SISTERS
The Big Brothers/Big Sisters mentoring program connects Yale student-athletes with youth in the New Haven community. Pairs meet on a weekly basis for homework help, games, and field trips. There are also planned gatherings at Yale athletic events for all mentors and students to come together. yalebulldogs.com/information/community

BRIDGES
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 and La Casa Cultural at Yale. yale.edu/bridges

BULLDOG BUDDIES
This mentor program matches Yale student-athletes with students from the Augusta Lewis Troup School. Mentors visit the school 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

BULLDOG PAWS
Bulldog Paws (Pediatrics Alliance with Student-Athletes) pairs Yale athletic teams with pediatric patients at Yale-New Haven Hospital. Various teams adopt a child as a new teammate and develop a bond of mutual support and friendship between the child and the team. The following teams are currently involved in Bulldog Paws: Women’s Ice Hockey, Softball, Women’s Basketball, Men’s Basketball, Football, Women’s Swimming and Diving, and Gymnastics. yalebulldogs.com/information/community

CARSON SCHOLARS
The Carson Scholars program supports two primary initiatives: Carson Scholarships and the Ben Carson Book Club. Yale University sponsors five $1,000 scholarships to students in New Haven public schools each year. Scholarships are awarded to students in grades 4 through 11 who have embraced a high level of academic excellence and community service. The Ben Carson Book Club is a reading incentive program offered to New Haven students in 2nd through 6th grades through their school libraries. The program, established in 2002, is a partnership among Yale University, the Carson Scholars program, the New Haven Public Library, and New Haven Public Schools.

DWIGHT HALL ACADEMIC MENTORING PROGRAM AT YALE UNIVERSITY (DHAMPY)
The Jones-Zimmerman Academic Mentoring Program model pairs 15 undergraduate mentors with 30 middle school students from Wexler-Grant School and Celentano School for a 3-year duration, fostering sustained, long-term relationships. The program identifies students who are struggling academically at the start of middle school. DHAMPY employs a triangular mentoring model that fosters an academic-centered relationship between the mentee, the mentor, and a peer student. dwighthall.org/fellowships

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 member 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. dwighthall.org

DWIGHT HALL EARLY CHILDHOOD EDUCATION FELLOWSHIP
This fellowship places ten students at high-quality childcare centers that serve low-income children. Fellows provide service at centers including All Our Kin, Calvin Hill, Creating Kids, United Community Nursery, Zigler Head Start, and Wilbur Cross Parenting Day Care. The program aims to cultivate life-long advocates for high-quality childcare, and fellows meet weekly for a seminar on early childhood development and policy analysis led by staff from All Our Kin. dwighthall.org/fellowships

DWIGHT HALL SUMMER FELLOWSHIP PROGRAM
Established in 1968, this program awards funding to Yale students who spend their summers in New Haven working on a project that they have designed in direct response to a community need. Recently, fellows have proposed diverse projects that range from a summer literacy program for New Haven youth to the development of a guide to homeless health care resources. dwighthall.org/fellowships

NEW HAVEN READS
Founded in 2001 as a community book bank, New Haven Reads has grown to now hand out hundreds of books and tutor hundreds of students every week. In a space donated by Yale, New Haven Reads distributes more than 100,000 free books to individuals, families, teachers, and organizations each year. The book bank is set up like a bookstore and contains books for adults and children of all ages donated by individuals and community groups. New Haven Reads also provides free weekly tutoring and SAT preparation classes for more than 500 students from the New Haven area. Yale sponsors 40 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 citywide science fair is held in May at Yale University’s Commons. In conjunction with the science fair event, the New Haven Science Fair Program offers mentoring for students and professional development for teachers on investigative hands-on science fair projects that promote skills in critical thinking, the scientific process, and research communication. In 2013, more than 7,000 New Haven students and 43 schools participated, utilizing more than 160 volunteers for mentoring and judging. The program also supports Family Science Nights.

nhsciencefair.org

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 for local elementary school students in grades 1-5 that makes learning fun through educational games, scavenger hunts, and field trips. The program meets Saturday afternoons at St. Luke’s Church.

PACE BY P.E.A.C.E.
Peace by PEACE volunteers teach non-violent conflict resolution skills to 5th and 6th grade students through games, role plays, and discussions. The curriculum teaches such skills as overcoming bullying, communication, cooperation, problem-solving, negotiation, and overcoming stereotypes.

READY SET LAUNCH
Ready Set Launch aims to level the college application playing field by providing direct one-on-one mentoring and college consulting services to low-income high school students across the country.

readysetlaunch.org

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 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. Splash at Yale recently launched 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 and squash instruction to 80 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 academic and summer opportunities.

squashhaven.org

URBAN DEBATE LEAGUE
The Urban Debate League seeks to promote debate in New Haven public schools in order to increase students’ research, public speaking, and critical thinking skills. Coaches work weekly with teams in ten New Haven high schools, focusing on a different topic and set of debating skills 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

URBAN IMPROVEMENT CORPS
Established in 1968, the Urban Improvement Corps provides mentoring and tutoring to students in the New Haven area. Tutoring occurs after school weekly at the Afro-American Cultural Center at Yale.

theuic.org

WOMEN AND YOUTH SUPPORTING EACH OTHER (WYSE)
WYSE is a national mentoring program dedicated to empowering girls with the resources and support necessary to make healthy personal decisions and to become community leaders. WYSE volunteers lead an after school program for 8th grade girls at Conte-West Hills School and teach a curriculum that focuses on such topics as conflict resolution, healthy relationships, career options, and sexual education.

YALE FOR AUTISM AWARENESS
Yale for Autism Awareness seeks to spread awareness of autism and help improve the lives of those affected by autism through community service and fundraising. Yale students volunteer at Chapel Haven and in New Haven high schools, among other sites.

yfaa.commons.yale.edu

YALE UNIVERSITY PRESIDENT’S PUBLIC SERVICE FELLOWSHIP
Established in 1994 to provide expanded opportunities for Yale students to work with public sector and nonprofit organizations in New Haven, the Fellowship has since grown to 39 Fellows working for up to eleven weeks during the summer at 337 different organizations. The President’s Public Service Fellowship has built a strong reputation with educational organizations in New Haven, and 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. More than 600 Yale University undergraduate, graduate and professional students have contributed more than 210,000 hours of community service to New Haven nonprofit and public sector agencies as President’s Public Service Fellows since 1994.

yale.edu/pps

YALE READING CORPS AT WEXLER-GRA NT SCHOOL
Through the Yale Reading Corps, two dozen Yale undergraduates serve directly as teaching assistants in classrooms at Wexler-Grant School—they are a teacher’s right hand in the classroom for several hours per week. Fully integrated into the educational environment, students support the teacher’s activities by helping prepare class materials or working with individual or small groups of students. In addition, the program supports the school’s literacy efforts by hosting Family Literacy Nights and sponsoring book fair events for students to expand their home libraries.

onya.yale.edu/reading-corps

YALE UNIVERSITY ON ITUNESU
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.

itunes.yale.edu

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
Supporting students to make healthy choices goes hand in hand with helping students 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, 80 local middle and high school students participate in more than 300 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. Currently more than three-fourths of Squash Haven high school team members are on track to meet standards for New Haven Promise scholarships, well above the district average.

Integrated into the school day, the Community Health Educators (CHE) program, led by a group of Yale undergraduates, works with local middle and high school students to empower students to make healthy decisions about their bodies through a curriculum focused on healthy relationships, nutrition, and mental health. CHE presents workshops in two dozen local middle and high schools, reaching more than two thousand students each year.

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.

**BY THE NUMBERS**

**Squash Haven**

<table>
<thead>
<tr>
<th>Metric</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Middle and high school student-athletes</td>
<td>80</td>
</tr>
<tr>
<td>Average hours of programming per student each year</td>
<td>329</td>
</tr>
<tr>
<td>Overall team grade average in core subjects</td>
<td>87%</td>
</tr>
<tr>
<td>Matches and tournaments played per year</td>
<td>42</td>
</tr>
<tr>
<td>Students ranked nationally in the top 100 in their age group</td>
<td>11</td>
</tr>
</tbody>
</table>
ANATOMY TEACHING PROGRAM
Yale medical students and faculty teach an anatomy class to Hill Regional Career High School students. Junior and senior high school students enrolled in Anatomy and Physiology visit the Yale Medical School twice per month to access the lab facilities. Lab activities range from observation of dissected cadavers to use of the slides and microscopes in the histology laboratories. This program is part of Yale’s partnership with Hill Regional Career High School.

BULLDOG BUDDIES
This mentor program matches Yale student-athletes with students from the Augusta Lewis Troup School. Mentors visit the school 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.

BULLDOG PAWS
Bulldog Paws (Pediatrics Alliance with Student-Athletes) pairs Yale athletic teams with pediatric patients at Yale-New Haven Hospital. Various teams adopt a child as a new teammate and develop a bond of mutual support and friendship between the child and the team. The following teams are currently involved in Bulldog Paws: Women’s Ice Hockey, Softball, Women’s Basketball, Men’s Basketball, Football, Women’s Swimming and Diving, and Gymnastics.

CARE: COMMUNITY ALLIANCE FOR RESEARCH AND ENGAGEMENT
Established in 2007, CARE identifies solutions to New Haven’s health challenges through an approach known as community engaged research. CARE’s research tackles chronic disease by focusing on social, environmental, and behavioral risk factors. CARE is committed to rigorous scientific inquiry that is guided by, and provides direct benefits to, our neighborhoods, schools, and the wider New Haven community. CARE also conducts longitudinal intervention studies in New Haven neighborhoods and schools, including cohort studies and randomized trials that are designed to measure, better understand, and help reverse these trends.

care.yale.edu

COMMUNITY HEALTH EDUCATORS (CHE)
As members of CHE, Yale undergraduates write and teach a health curriculum composed of a series of workshops in local public high schools and middle schools, reaching more than 1,000 students in 15 New Haven public schools each academic year. Founded in 1999 in response to the absence of health education funding, CHE works with school administrators, teachers, and students to develop and teach discussion-based workshops that span the topics of Communication, Contraception, Sexually Transmitted Diseases, Nutrition, Drugs and Alcohol, and Relationships and Abuse.

HEALTH PROFESSIONALS RECRUITMENT AND EXPOSURE PROGRAM (HPREP)
HPREP is a nationwide high school science enrichment program aimed at recruiting African-American, Native American, and Latino high school students into careers in the sciences and health professions. Each year more than 30 New Haven high school students attend eight Saturday sessions run by Yale University minority medical students. Students participate in small group discussions on various health topics within medicine and public health. A special emphasis is placed on health issues disproportionately affecting minority communities.

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, 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.

REPRODUCTIVE HEALTH EDUCATION AND ADVOCACY (RHEA)
Reproductive Health Education and Advocacy (RHEA) is a group founded by Yale School of Nursing students that works to engage with community health organizations in New Haven to support their efforts in providing perinatal services to women in our community. RHEA has an established relationship with New Haven Healthy Start and Polly T. McCabe School for pregnant students, and has recently developed a reproductive health/parenting curriculum for the New Haven community.

SQUASH HAVEN
Squash Haven provides individually directed academic enrichment and squash instruction to 80 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 academic and summer opportunities.

SQUASH HAVEN

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. Youth Days are free and open to the public and draw hundreds of New Haven students to Yale’s campus for free sports clinics, free admission to a varsity event, and special prizes for participants.

YALE COMMUNITY ROWING
Established in 1999, the Yale Community Rowing program now brings close to 900 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.

YALE SWIM NEW HAVEN
Every spring, volunteers from both the Yale men’s and women’s swim teams lead weekly community swim lessons for New Haven youth.
Summer Programs for Students

Summer learning programs are crucial allies in our city’s commitment to ensure that our children are equipped with the knowledge, skills, and confidence they will 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; conduct materials science research with a CRISP summer internship; and improve reading skills at the New Haven Reads summer literacy camp.

Since 1953, the Ulysses S. Grant Foundation 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 to excel in school now and prepare for college. A 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.

Through athletics, students develop the teamwork, perseverance, and social awareness, traits that equip them for success in academics and later in life. Squash Haven, an innovative academic enrichment and squash instruction program, recognizing that the achievement gap between high- and low-income students widens during the summer, continues to conduct intensive academic programming during the summer months. Middle school students build literacy skills by learning debate and persuasive writing while high school students develop college-level writing skills and prepare for the SAT. At Yale’s Gilder Boathouse on the Housatonic River, Yale student-athletes and coaches have taught younger students the sport of rowing for more than ten years through the Yale Community Rowing program. The program now attracts close to 900 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.

In SCHOLAR, we learn about the world of science from top students and faculty. We also learn how we may contribute to that future.

—2013 SCHOLAR student
The program exposes students to laboratory internship as members of a research project as well as to the opportunity to conduct team-based research. Participating students conduct a four-week interdisciplinary materials science research. Rising high school seniors spend six weeks working in a laboratory with a research scientist utilizing research techniques such as gel electrophoresis, RTPCR, immunohistochemistry, and electron microscopy. Since its inception in 2003, a total of over 260 high school students, undergraduates and high school teachers have successfully completed the Program. Several interns have presented their research work at science fairs and approximately 20% of student interns have published their findings in peer-reviewed scientific journals.

**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 5th through 11th grades who play piano, woodwind, brass, string, and percussion instruments.

**NEW HAVEN BRIDGE TO SUCCESS PROGRAM (NHB2SP)**

NHB2SP is a free six-week summer residential program at Yale for recent New Haven public high school graduates who have participated in the Yale Pathways to Science program. The program targets students who demonstrate ability and interest to pursue science-related careers and professions, especially in the medical field. The goal of NHB2SP is to prepare students for their first year as STEM majors. In the program, students participate in small seminars and study groups, building an academic community where high standards and expectations are the norm.

**NEW HAVEN READS SUMMER LITERACY CAMP**

The Summer Literacy Camp for rising kindergarteners and first graders at New Haven Reads helps students gain confidence and enhance their literacy skills during the summer months. This five-week program is taught by four certified teachers who employ storytelling, poetry, songs, and hands-on activities to expand the reading and language skills of campers. The program served 35 students in the summer of 2013.
SPOTLIGHT ON SCHOLAR

SCHOLAR is a selective summer residential program that brings 120 high school students to live and study science on Yale’s campus for two weeks. “In SCHOLAR, we learn about the world of science from top students and faculty. We also learn how we may contribute to that future,” remarked a 2013 SCHOLAR student. SCHOLAR programming prepares motivated and academically promising students for success in college STEM majors and future careers. Half of all SCHOLAR students would be the first in their families to go to college.

SCHOLAR provides a tailored enrichment program for students, offering an intensive, hands-on curriculum that emphasizes discovery, critical thinking, and problem solving. For four and a half hours each day, students take laboratory classes on neurobiology, materials science, engineering, and metagenomics, a curriculum that is entirely designed and taught by Yale faculty, graduate students, and local teachers. Yale undergraduates also serve a vital role in the program as residential advisors, teaching assistants, and mentors.

After classes each day, students attend guest lectures and scientific demonstrations. This past year, a student favorite was the “Physics of Dance” workshop, led by Yale professors Sarah Demers and Emily Coates. Over the weekend, students delve more deeply into a common theme. Last year, they examined topics in the field of public health, closely analyzing the disparities between health and wealth. Following discussion and demonstrations with graduate students in physiology and after watching a documentary on the theme, students carried out their own assessment of this disparity in New Haven neighborhoods.

BY THE NUMBERS

SCHOLAR

78%
Percent of SCHOLAR students enroll in college immediately following high school graduation, compared with 36% for the NHPS district (for the high school classes of 2010–2013)

54%
Percent of SCHOLAR students earn a four-year college degree within 6 years of high school graduation, compared with 19% for the NHPS district (for the high school classes of 2005–2007)

43%
Percent of SCHOLAR students obtain a college degree in STEM fields, compared with an 18% national average (for the high school classes of 2001–2005)

PATHWAYS PEABODY SUMMER YOUTH INSTITUTE

Pathways Peabody Summer Institute is an annual week-long summer day program for middle school students in the Yale Pathways to Science program at the Peabody Museum. Students are given the opportunity to learn about natural and cultural history in a relaxed setting, through fun and engaging hands-on experiences. The Museum’s world-class collections and exhibits serve as a truly unique backdrop to each week’s program. Students explore and experience a mix of interactive learning activities, field trips, and creative arts projects.

yale.edu/scienceoutreach

SCHOLAR

The Yale summer SCHOLAR program brings 120 high school students from New Haven, West Haven, and Amity Public Schools to live and study science for two weeks on the Yale 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. SCHOLAR provides an intensive, hands-on science curriculum that emphasizes discovery, critical thinking and problem solving. The curriculum is designed by Yale University faculty, graduate and professional students, and teachers from local public schools. Yale undergraduate students serve a vital role as teaching assistants and mentors. Students in SCHOLAR are automatically enrolled into the Yale Pathways to Science program.

onhsa.yale.edu/scholar

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 the co-curricular, recreational, and social programs with students from other high schools and colleges from across the country and around the world.

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yale.edu/scienceoutreach

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onhsa.yale.edu/scholar

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yale.edu/scienceoutreach

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onhsa.yale.edu/scholar

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SUMMER BUDS
Summer Buds is a literacy program started by Yale students through Dwight Hall in 2006. During the summer when school is out, Yale students stay active in volunteering by tutoring a group of middle-achieving students from John C. Daniels and Wexler-Grant Middle Schools in twice-weekly reading sessions at the New Haven Free Public Library. The “Bigs” and the “Littles” are paired up and select a book to read with each other, talk about the books and reactions to the stories with each other, and imagine alternative scenarios or placing themselves within the context of the story. Bigs also assist the Littles in writing their reflections and interpretations of the stories in journals to work on reading comprehension and conceptualization.
dwighthall.org/summer-buds

ULYSSES S. GRANT FOUNDATION
The Ulysses S. Grant Foundation 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.
usgrant.commons.yale.edu

YALE CENTER FOR BRITISH ART
SUMMER CHILDREN’S ART PROGRAM
Each summer, the Yale Center for British Art offers two weeklong workshops for young students. Students experiment with drawing, collage, and printing, drawing inspiration from works of art in the museum.
britishart.yale.edu/education/children-and-families

YALE COMMUNITY ROWING
Established in 1999, the Yale Community Rowing program now brings close to 900 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

YALE DAILY NEWS SUMMER JOURNALISM PROGRAM
Run by members of the Yale Daily News, the Summer Journalism Program is a week-long intensive journalism program for high school students. Students participate in workshops, attend lectures by guest speakers from major national publications, and together create a full summer edition of the Yale Daily News by the end of the week.
yaledailynews.com/about-us/sjp

YALE YOUNG GLOBAL SCHOLARS
The Yale Young Global Scholars Program is a two-week summer program at Yale for high achieving high school students. YYGS is an academic and leadership development program that is designed to bring together students to help them make meaningful impacts as young leaders, even before they begin college. Program sessions give students opportunities to recognize and understand contemporary global issues, strategize responses, and innovate solutions while learning from renowned practitioners and Yale faculty members in a range of fields.
globalscholars.yale.edu
Yale’s work with New Haven and area students is importantly complemented by the wide range of professional development opportunities made available for teachers that welcomes 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 new 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
Fundamental to the approach of the Yale-New Haven Teachers Institute is promoting teacher leadership. Through the Institute, teachers collaborate with Yale faculty members, utilizing the university’s world-class resources to study topics in-depth and develop new curricular materials. History of Art Professor Timothy Barringer integrated the collections at the Yale University Art Gallery and the Yale Center for British Art into his seminar “Understanding History and Society through Visual Art,” thus allowing teachers to engage deeply with the challenges and rewards of teaching from original objects in museum collections and, in turn, to enabling their students to understand history and the experiences of historical individuals through the analysis of works of art.

CRISP PROFESSIONAL DEVELOPMENT FOR TEACHERS
CRISP professional development workshops provide specialized training to practicing scientists and science educators at all levels. Several workshops are offered each semester with the overarching theme of integrating interdisciplinary science into the classroom. Recent workshops have included “Special Education in Teaching Science” and “21st Century Approach to Teaching Electricity and Magnetism: Real World Applications.” CRISP also provides curricular resources and lab and demo kits for STEM classrooms.

ares.southernct.edu/crisp/index.php/Professional_Development

CRISP RESEARCH EXPERIENCES FOR TEACHERS FELLOWSHIP
The CRISP Research Experiences for Teachers program is a four-week summer research experience for local 8th–12th grade and community college STEM teachers. The fellowship supports the active involvement of K-12 STEM teachers in research in order to bring knowledge of materials science, engineering and technological innovation into their classrooms. Teachers conduct research alongside CRISP faculty and graduate students, with the goal of building long-term collaborative partnerships between K-12 STEM teachers, community college faculty, and the university research community.

ares.southernct.edu/crisp/index.php/RET_Program

DISCOVERY TO CURE HIGH SCHOOL TEACHER INTERNSHIP
Connecticut high school science teachers have the opportunity to do research in a lab at Yale University during the summer to further their knowledge of science.

medicine.yale.edu/obgyn/discovery/education/teacher.aspx

EDUCATION STUDIES EXCHANGE SERIES
The exCHANGE Series is a monthly public forum for New Haven teachers and the Yale community to engage in authentic learning and civil discourse on the critical issues of education with the purpose of sharing new knowledge, generating conversation, and offering insights into high-priority challenges facing our education system both nationally and locally. Past session themes have included “Yale Graduates as Education Leaders” and “Expanding College Access.” Each session involves a panel discussion followed by small group discussion and questions. The Office of New Haven and State Affairs sponsors the monthly series.

yalecollege.yale.edu/content/exchange-series

EDWARD ZIGLER CENTER IN CHILD DEVELOPMENT AND SOCIAL POLICY
The Zigler Center sponsors a weekly Social Policy Lecture Series that is free and open to the public. Speakers from academia, government, community organizations, business, and the media discuss their work and its policy implications. The Center advises policymakers and practitioners on programs to improve the lives of America’s children. It has created extended day and early childhood development programs, such as Head Start, for New Haven Public Schools.

ziglercenter.yale.edu

BY THE NUMBERS
Yale-New Haven Teachers Institute

1978
Year that Yale-New Haven Teachers Institute was established

170
Yale faculty members have led seminars or given talks at the Institute

208
Different seminars addressing topics across the arts and humanities have been offered since 1978

734
New Haven teachers who have participated in the Institute, many for more than one year

1893
Total curriculum units that have been written by teachers and are available for widespread access on yale.edu/ynhti
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.

peabody.yale.edu

PEABODY FELLOWS
This professional development program offers elementary, middle, and high school teachers innovative curricula and hands-on, inquiry-based learning methods that link biodiversity with Connecticut’s life and earth science standards. Recent program themes have included “Climate Change and Patterns of Vector-Borne Disease,” “Solar System Investigations,” and “Strength in Numbers: How to Use Museum Specimen Data in the Classroom.” Participants attend a week-long teacher institute and receive a stipend, use of museum specimens and ongoing support from the Peabody’s educators.

peabody.yale.edu/teachers

PIER: PROGRAMS IN INTERNATIONAL EDUCATIONAL RESOURCES
The Program in International Educational Resources (PIER) of the MacMillan Center works to advance understanding of international and world regional issues through professional and curricular development workshops for educators and cultural programs and language study opportunities for high school students.

yale.edu/macmillan/pier

PIER SUMMER INSTITUTES
PIER Summer Institutes bring nearly one hundred K-12 teachers and college faculty to the Yale MacMillan Center each summer for weeklong seminars. Recent seminar themes have included “Global Youth in the Digital Age,” “Echoes of Egypt: Conjuring the Lands of the Pharaohs,” and “American Histories: Native People’s Interactions with Europeans in the Americas.” Educators collaborate to transform the academic content of the seminars into working models for lesson plans and novel curriculum.

yale.edu/macmillan/pier/profddev

SYMPOSIUM ON MUSIC IN SCHOOLS
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. The Symposium brings together fifty distinguished music teachers from around the country. These teachers are nominated by their districts and are selected for their outstanding accomplishments teaching music in public schools. Teachers are invited to travel to New Haven, all expenses paid, to attend the Symposium. For four days in June, the distinguished music educators convene to participate in a variety of workshops, discussions, and other events. They are joined by local New Haven Public School music teachers. Discussions focus on pressing issues in the field of music education.

music.yale.edu/community/music-in-schools/symposium

URBAN RESOURCES INITIATIVE (URI)
Urban Resources Initiative is a not-for-profit university partnership between the School of Forestry and Environmental Studies at Yale and the city of New Haven whose 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. As of 2009, the City of New Haven adopted the URI curriculum “Open Spaces as Learning Places” as mandatory instruction for all New Haven public school 6th grade students. URI partners with Common Ground High School and the Sound School for the GreenSkills program, a local green jobs program that employs high school students and ex-offenders through the planting of trees, working towards the goal of the TreeHaven 10K campaign to plant 10,000 trees throughout New Haven.

environment.yale.edu/uri

YALE CENTER FOR BRITISH ART SUMMER TEACHER INSTITUTE
The Yale Center for British Art Summer Teacher Institute offers K-8 teachers an enriched understanding of how visual art can support reading, writing, and thinking. Workshops led by university faculty, museum curators, and educators demonstrate how visual texts can be utilized in the classroom to enhance literacy instruction.

britishart.yale.edu/education/schools-and-teachers/programs-for-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 curriculum. The purpose of the group is to share experiences, research, and resources and to work towards an expanded notion of literacy that includes making meaning from visual as well as written texts.

britishart.yale.edu/education/schools-and-teachers/programs-for-teachers

YALE CHILD STUDY CENTER’S SCHOOL DEVELOPMENT PROGRAM
The School Development Program is committed to the total development of all children by creating learning environments that support children’s physical, cognitive, psychological, language, social, and ethical development. The Professional Consultation and Development program provides various levels of training for New Haven teachers, administrators, and parents.

info.med.yale.edu/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 and CEUs 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 interests in art, their curricula, and the Gallery’s connection. The program is a free and meets monthly throughout the academic year. Last year, more than 500 teachers attended professional development programs at the museum.

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

YALE UNIVERSITY ON ITUNESU
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.

itunes.yale.edu

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
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 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 on the first floor.

For outdoor lovers, Yale’s Marsh Botanical Garden, whose extensive plant collection supports ecological teaching and research at the university, hosts monthly public open house events and weekly guided tours of its six greenhouses. At Yale’s West Campus, the urban farm is always open to the community. Visitors are welcome to come help tend the farm, harvest produce, or just relax. On scheduled volunteer days, the farm manager introduces the farm and provides helpful seasonal growing tips.