

WHO WE ARE

The Department of Design and Construction created the STEAM Initiatives Division to establish an inclusive path for New York City's youth into the architecture, engineering, and construction fields. Our outreach programs create valuable, hands-on opportunities for students to learn about the built environment and the resilient future of New York City as outlined by the mayor's OneNYC initiative. Our unique programs enhance student awareness of STEAM subjects and support them in pursuing these fields beginning in middle school, and continuing through high school, college, graduate school, and professional careers.

CONTACT

Deputy Commissioner:
Lillian "Lee" Llambelis

Program Coordinators:
Sandrine Fermino
Ershaun Harris
Jillian Ramos
Teresa Ye

Website: www.nyc.gov/ddc
Telephone: 718.391.2888
Email: STEAM@ddc.nyc.gov

Community Partnerships

+

STEAM Initiatives



"I like the hands-on activities because I'm a kinesthetic learner." – Jonathan, 6th grader, MS 22

"I understand more in my regular science class because of DDC Engineering is Everywhere." – Wilfredo, 6th grader, MS 22

"I consider myself an engineer!" – Ivellise, 6th grader, MS 22

"The DDC Steam Initiatives is highly effective in cultivating curiosity... It's empowering these children because it's allowing them to think of themselves as engineers." – Monique Jarvis, LEAP Director about the DDC Engineering is Everywhere After-School program at MS 22

NYC DDC Department of Design and Construction

Commissioner Feniosky Peña-Mora



WHAT IS STEAM?

SCIENCE, TECHNOLOGY, ENGINEERING, ARCHITECTURE/ART, AND MATH (STEAM)

Education encompasses core subjects that prepare our youth to be successful and competitive in the 21st century global economy. STEAM education fosters resilient students who can become the architects, engineers, and construction professionals of the future.

OUR PROGRAMS

COMMUNITY OUTREACH

DDC and You: As part of this initiative, DDC engineers, architects, and other professional staff visit schools to speak to students at **Career Days** sharing their respective journeys and what inspired them to pursue their particular careers. DDC also hosts an annual **Take Your Children to Work Day**. This year DDC will host its very first **Introduce a Girl To Architecture, Engineering and Construction Day** to illustrate to girls the varied careers available in the STEAM profession. Additionally, DDC staff will participate in **summer festivals** and **street fairs** in areas where DDC infrastructure and public building projects are being developed.

OUR PROGRAMS

MIDDLE SCHOOL PROGRAMS GRADES 6-8

Engineering is Everywhere Curriculum: In an effort to address the Mayor's Middle School Afterschool Initiative, DDC, in partnership with the NYC Department of Education (DOE) and the NYC Department of Youth and Community Development (DYCD), facilitates a series of hands-on, STEAM-related curriculum in DYCD after-school programs. The agency's goal is to increase early learning opportunities for underrepresented students to STEAM professions.

HIGH SCHOOL PROGRAMS GRADES 9-12

ACE Mentor Program: As participants in the ACE (Architecture, Construction and Engineering) Mentor program, our staff mentors high school students in accordance with ACE's mission to inspire students to pursue careers in design and construction.

New HS Summer Internship Program: DDC hosts high school students who have demonstrated interests in STEAM careers. Students participate in workshops and special projects that complement their academic programs and career interests. Throughout the internship, students are supported as they set and accomplish goals, gain industry relevance and establish professional connections.

OUR PROGRAMS

COLLEGE AND PROFESSIONAL PROGRAMS

College Summer Internship Program: DDC offers placements to undergraduate and graduate students in specific fields to help them gain professional experience and mentorship as they pursue STEAM careers.

New Faculty Fellows Program: DDC partners with architecture and engineering faculty to enhance DDC's design and construction management practices and support research into the built environment.

Town & Gown: DDC facilitates partnerships between academics and practitioners on research projects aimed at making changes in practices and policies. Results are published in the annual review document, Building Ideas.

Procurement Administration Training: DDC and SCA are partnering with community colleges to create a training program specific to DDC and SCA's procurement process and construction administration.

Building Information Modeling (BIM) Training: DDC will implement a training program for Minority Women Business Entrepreneur contractors.



DDC Summer College Interns



Participants in the Young Engineers Program Showcase at MS 22 in the Bronx.



ACE Team 8 at DDC.