



**SUMMER  
SPRINGBOARD**

Look Inward. Go Upward.

# MIDDLE SCHOOL SOFTWARE ENGINEERING INFOSHEET

**Commuter Only Students**

**New student admissions for  
Summer 2026 are open.**

**Middle School Course**

This is a one-week program where you'll focus on one course for the entire duration.



## Academic Program Overview

Summer Springboard's Software Engineering course at NYU gives middle school students an exciting, hands-on introduction to coding and software development. Acting as city innovators, students will design and build systems that contribute to the city of the future.

Throughout the course, they'll use Python programming to create real-world solutions aimed at making cities smarter, cleaner and more efficient. Working in teams, students will take on challenges like optimizing traffic light simulators, building energy management systems or designing water and waste monitors. By connecting math, coding and engineering principles, students will develop creative solutions to some of the biggest issues facing urban environments today.



## Excursions

This program includes exciting excursions designed to enhance students' learning. One potential visit is to the National Museum of Mathematics (MoMath), where students will explore how math powers the systems that keep cities running. Through hands-on exhibits, they'll dive into concepts like optimization algorithms and data visualization in an interactive setting.

In addition to MoMath, students will experience New York's dynamic tech and innovation scene. Past programs have featured a behind-the-scenes tour of Microsoft, where students explored cutting-edge technology, and immersive spy simulations at Spyscape that blend problem-solving with real-world adventure.

## Program Highlights

- Collaborate in teams to design and build a smart city project using Python programming
- Solve real-world problems by applying creativity and engineering principles to develop functional systems
- Test, debug and refine interactive prototypes throughout the week
- Present your Smart City project in a professional showcase
- Demonstrate coding logic, engineering decisions and problem-solving strategies behind your design

## 2026 Dates

### NYU

- Session 1: June 22 - June 26
- Session 2: June 29 - July 3
- Session 3: July 6 - July 10
- Session 4: July 13 - July 17
- Session 5: July 20 - July 24

## Instructors

### NYU - Dr. Christelle Scharff

Dr. Christelle Scharff is a Professor of Computer Science at Pace University. She has a Ph.D. in Symbolic Artificial Intelligence (Theorem Proving and Automated Deduction) from INRIA, the French National Institute for Research in Digital Science and Technology. Her current research focuses on global software engineering, mobile for social change and machine learning.

## Tuition Information:

Apply by November 30 to lock in the lowest prices of the year. Tuition increases on December 1.

### **Commuter Students:**

- **Includes:** lunch, academic course, excursions and programming from 8:30 am to 5:00 pm on Monday and 9:00 am to 5:00 pm on Tuesday to Friday
- **Excludes:** lodging, breakfast, dinner and evening activities
- **Price:**
  - \$1798

## Supplements:

- Application fee: Starting at \$99 (mandatory, non-refundable)
- Tuition Protection Plan: Allows for cancellation for any reason up until the day of the program. Click [here](#) for more info.

[More info on Airport Transfer](#)

[More info on Unaccompanied Minor Service](#)

[Apply Now!](#)



## Course Structure

There are five 3-hour class sessions over the one-week course. During the week, students have class from 8:30am - 12pm Monday and 9am-12pm, Tuesday - Friday (program check-out is 5:00 p.m. on Friday). Wednesday afternoon will be dedicated to additional academic time with possible excursions and/or guest speakers.

The Middle School programs operate separately from Summer Springboard high school programs with separate staff, accommodations, classes and a more structured environment. For students completing grades 6-8.



## Typical Schedule

9AM	Academic Course / Student Arrival	
12PM	Lunch	
1:30PM	Academic Excursion	
3:30PM	Academic Skill Lab	
5PM	Students Depart	

Please note: NYU Middle School sessions begin on the Monday of each session at 8:30 AM.

Summer Springboard programs are not run by our campus partners (with the exception of Cal Poly, University of Washington Foster School of Business, and NYSID which are run in partnership with SSB). Universities and their affiliated departments and partners do not control and are not responsible or liable in any manner for any part of the Summer Springboard program.