

## After-School Science Program

Select middle school students will be invited to attend a 10-week after-school program in the Spring of 2018. This free program is designed to use Brooklyn Bridge Park as a living laboratory, where students can observe science in nature and collect samples to use in the new state-of-the-art laboratory at St. Francis College to examine specimen.

**This program will meet on Thursday afternoons from 4:00-6:00pm for 10 weeks, March 22<sup>nd</sup> – June 14<sup>th</sup>. Participating students must commit to attend all 10 sessions.**

This is a wonderful opportunity for students excited about science to work on college level as they explore the waters and wildlife of the Hudson River Estuary. Each week a St. Francis College biology professor and/or the Brooklyn Bridge Park Conservancy Education Coordinator will lead the program. Students will learn how to conduct fieldwork and how to work in a fully equipped laboratory as an introduction to Marine Biology and Ecology.

| <b>Dates (2018)</b>                                | <b>Activities (Schedule is subject to change)</b>   |
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| <b>3/22</b>  | Introduction to lab protocol and procedure in new state-of-the-art laboratory at St. Francis College <ul style="list-style-type: none"> <li>Practice using a variety of lab equipment and examine microscopic organisms</li> </ul> <p><b>(3/29 and 4/5: No class: SFC Easter Break/Spring Recess)</b></p>                   |
| <b>4/12</b>  | <b>“Science in 15 Minutes”</b> <ul style="list-style-type: none"> <li>College students will explain a topic in science through presentations in only 15 minutes. Middle school students will choose the winning presentation!</li> </ul>  |
| <b>4/19</b>  | <b>Do you have a “Green Thumb”?</b> <ul style="list-style-type: none"> <li>Plant flower and vegetable seeds for the SFC Greenhouse</li> <li>Examine spring water/ tap water</li> </ul>  |
| <b>4/26</b>  | <b>“Spring Ahead into Summer”</b> <ul style="list-style-type: none"> <li>College students give presentations on the research they are conducting with professors</li> </ul>   |
| <b>5/3</b>   | <b>Brain size at St. Francis College</b> <ul style="list-style-type: none"> <li>Learn how to measure the volume of the cranium of various species, record data, and make scientific comparisons.</li> </ul>   |
| <b>5/10</b>  | <b>Plankton analysis</b> <ul style="list-style-type: none"> <li>Collect plankton from Pier 5 of Brooklyn Bridge Park and view samples using microscopes at the St. Francis College lab</li> </ul>   |
| <b>5/17</b>  | <b>Sustainable Landscape:</b> How waterfront design impacts river health <ul style="list-style-type: none"> <li>Tour and hands-on activities with Brooklyn Bridge Park Conservancy of Pier 1</li> </ul>   |
| <b>5/24</b>  | <b>Awesome Oysters</b> at Pier 5 of Brooklyn Bridge Park  |
| <b>5/31 (6/7: No class: Chancellor conference)</b> | <b>Seining</b> at Brooklyn Bridge Park <b>**Students must have signed permission forms**</b> <ul style="list-style-type: none"> <li>Discover the underwater world of the East River using a 20-foot seine net to catch and identify fish and invertebrates by the BBP Conservancy Environmental Education Center</li> </ul> |
| <b>6/14</b>  | <b>Wrap Up Jeopardy</b> at St. Francis College  |