



**SUMMER  
SPRINGBOARD**  
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# Computer Science Infosheet

New student admissions for  
Summer 2024 are open.



## Program Highlights

- Gain foundational experience with the Python programming language, exploring the fundamentals and covering a blend of theory and hands-on practice.
- Gain proficiency using different data types and be introduced to basic data manipulation techniques using Pandas and NumPy.
- Learn to create and manipulate collections and become adept at using loops for iterating over data.
- Gain insights into how Python can be used in various fields like web development, data science, automation, and more.



## 2024 Dates

### Berkeley (\$5,898)

- Session 2: June 23 - July 05
- Session 4: July 07 - July 19
- Session 6: July 21 - August 02

### Barnard/Columbia (\$5,698)

- Session 2: July 14 - July 26

### University of Michigan (\$5,498)

- Session 1: July 21 - August 2



## Academic Program Overview

This course offers an engaging introduction to coding through Python, suitable for both beginners and those with some programming background. Students will explore Python fundamentals, covering key topics like variables, data types, control structures, functions, and loops, with a blend of theory and hands-on practice. Students will undertake a series of projects, each designed to enhance problem-solving skills and coding proficiency. Those with previous experience in programming will find opportunities to challenge themselves further, while newcomers will gain a solid foundation in Python syntax and program design. The course culminates in a final project, enabling students to demonstrate their skills and add a significant piece to their programming portfolio. This course is structured to build confidence and competence in Python, paving the way for future programming endeavors.



## Excursions

Past speakers have included a developer from Microsoft. Previous excursions included a trip to GoogleSF, as well as visiting the Raspberry Pi offices in San Francisco where students had an opportunity to learn more about the Raspberry Pi platform and got an opportunity to do some hands-on coding.

## Instructors

### **Berkeley - Dr. Qi Zhao**

Dr. Qi Zhao holds a Ph.D. in Computer Science from UCLA where he worked in the Network Research Lab, Internet Research Lab, and won the Computer Science Departmental Fellowship.

### **Barnard/Columbia - Dr. Christelle Scharff**

Dr. Christelle Scharff is a Professor of Computer Science at Pace University. To learn more, click [here](#).

### **University of Michigan - Steve Bogaerts**

Steve Bogaerts is a computer science lecturer at the University of Michigan in Ann Arbor. He graduated summa cum laude with a double major in computer science and math from Rose-Hulman Institute of Technology. He earned an M.S. and Ph.D. in computer science at Indiana University, with a focus in artificial intelligence. With nearly 17 years of teaching experience in a wide range of undergraduate CS courses, Steve loves sharing CS with others.

## Tuition Information:

### **Residential Students:**

- Includes: all meals, lodging, excursions, academic course, weekend excursions
- Excludes: optional airport pickup and drop off service (available for an additional fee)
- Price: See prices under 2024 dates

### **Commuter Students:**

- Includes: lunch, academic course, excursions, programming from 9am to 6pm, Monday-Friday
- Excludes: lodging, breakfast, dinner, weekend excursions
  - Weekend excursions can be added on for \$125 per day
- Price: \$3,198

## Supplements:

- Application fee: \$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.



## Course Structure

There are nine 3-hour class sessions over the two-week course. During week one, students have class from 9am-12pm, Monday - Friday. During week two students have class from 9am-12pm Monday through Thursday. Wednesday afternoons are dedicated to additional academic time (excursions, speakers).



## Typical Schedule



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More info on [Unaccompanied Minor Service](#)

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