

New for  
SPRING 2020!  
All online  
classes

LEARN FROM HOME

# THE BEGINNER'S GUIDE TO FREE & LOW-COST TECH COURSES IN NYC

Where to log on to learn the skills  
you need to jump start a tech career

Women.nyc is a comprehensive initiative to make New York City the best place in the world for women to succeed.

By working with partners who share our mission, women.nyc has rolled out groundbreaking programs that have a real impact, including salary negotiation workshops, career training, funding for small businesses and startups, grants for female creators, legal advice from the city's most respected law firms, and more.

So why a guide to free and low-cost tech training from women.nyc? Because there's a shortage of women in high-paying fields like web development, data science and cybersecurity – and there's no better time to learn these skills than now.

Last fall, we published the first version of this guide. Our spring 2020 update features only online classes, so you can explore different technologies or take the leap and enroll in a program, all from home.

The great news is that our city is rich in free and low-cost ways to learn these in-demand skills, offered by a host of government agencies, universities, private companies and nonprofits. Think you can make it in tech? We do. Here are dozens of places to start.

Good luck!



**FAYE PENN**  
Executive Director  
women.nyc

 @FAYEPENN



**JASMINE BAKER**  
Deputy Director  
women.nyc

 @JASMINENBAKER

**To download this guide, go to [women.nyc/tech-guide](https://women.nyc/tech-guide).**

In these pages, you'll find everything from introductory sessions that lay out a field's career possibilities to in-depth bootcamps that connect you to job opportunities once you've built your toolkit.

While we've provided as much information on each course as possible, we did not vet each one. Make sure to contact each provider to understand if the class will best meet your needs.

Whether you're looking to explore a new field or take your current job in a new direction, understand that these courses are intended for beginners. Certain computer programs can be mastered in a matter of weeks, but you'll still need additional training to land that first job in your field. Regardless, these classes can get you started on your new career quickly and affordably.

# WHAT'S INSIDE

- 2 Introduction**
- 4 Using This Guide: In-demand Careers: An Overview**
- 5 Find the Right Tech Training for You**
- 6 For Coding Newbies**  
Introductory Basics
- 7 Web Development**  
Introductory Basics  
Career Track Bootcamps, Accelerators and Intensives
- 12 Cybersecurity**  
Introductory Basics  
Career Track Bootcamps, Accelerators and Intensives
- 16 Data Science & Analysis**  
Introductory Basics  
Career Track Bootcamps, Accelerators and Intensives

Even when the economy is in flux, tech skills are a solid bet. By taking the first steps toward breaking into the fast-growing fields of web development, cybersecurity and data science and analysis, you could position yourself to score a high-paid entry-level job or make a mid-career pivot. Here, some recent industry forecasts.

### WEB DEVELOPMENT

**National growth forecast:** 13% between 2018 and 2028

**What you'll do:** Shape a web site's design and appearance or write code to build digital tools and apps that can accomplish certain tasks.

**Skills needed:** Languages such as: HTML, CSS, JavaScript, Ruby and/or Python.

**Starting salary:** \$76,000 (per Glassdoor)

### CYBERSECURITY

**National growth forecast:** 32% between 2018 and 2028

**What you'll do:** Help companies cope with and prevent data hacks and breaches.

**Roles include:** security operations center analyst, cybersecurity support technician, network security specialist or penetration tester.

**Skills needed:** Knowledge of security standards and how to test for vulnerabilities in a system.

**Starting salary:** \$85,000

### DATA ANALYSIS & DATA SCIENCE

**National growth forecast:** 30% between 2018 to 2028

**What you'll do:** Help businesses grow or work more efficiently. A data scientist uses math, machine learning and programming to analyze patterns and predict the future, while a data analyst studies known statistics and data points to create new insights.

**Skills needed:** Programming languages, such as Python and R. Other skills: understanding of mathematics, statistics, Excel, database structures, modeling and SQL, a database management language. Data visualization and presentation.

**Starting salary:** Data analyst: \$60,714; data scientist: \$98,214 (per Glassdoor)

# FIND THE RIGHT TECH TRAINING FOR YOU

It can be hard to know which training type best suits you, but a few simple considerations can help you make the best choice.

## CONSIDER YOUR NEEDS

Tech careers aren't for everyone. If you don't have coding experience, get started slowly with some free online classes. You'll be introduced to the mechanics so you can better decide if you want to learn more. Once you are sure you want to pursue this career path, enroll in courses to sharpen your skills and then an in-depth bootcamp that jump starts a career in a new field, or boost your current career with a new suite of skills.

## CONSIDER YOUR GOALS

What would you like to get out of your training? Would you just like to know more about a certain technology or sector, or are you hoping to make a shift in your current job or even change careers? If you're hoping your training will lead to job opportunities, [careers site Dice suggests](#) you find out what percent of students graduate on time and how many are working in the field for which they trained. You can ask your school for these metrics or, as Dice points out, review data compiled by the Council for Integrity for Results Reporting.

As you research courses, get creative. Multiple sites (such as [Switchup](#) and [Course Report](#)) review classes and bootcamps. The New York Tech Talent Pipeline has a downloadable checklist, [Choosing a Tech Bootcamp: Things to Look For](#), to help you evaluate your options. And don't overlook connecting with people in person. If you can, reach out to alumni from programs you're considering. These simple conversations can help build your network while giving you the advice you need to plot your next career move.



# For Coding Newbies

## Introductory Basics

### DASH BY GENERAL ASSEMBLY

A series of short, interactive projects walks beginners through the basics of HTML, CSS and JavaScript to create a functioning site.

**Hours:** Self-directed

**Who's eligible:** Anyone

**Cost:** Free

**Duration:** N/A

**Info:** <https://dash.generalassemb.ly/projects>

### INTRODUCTION TO HTML/CSS

This beginner-level course takes you from a blank page to a functioning website, including writing valid HTML, adding links and images, applying CSS styles, and positioning elements.

**Hours:** Self-directed

**Who's eligible:** Anyone

**Cost:** Free

**Duration:** N/A

**Info:** <https://www.girldevelopit.com/materials/html-intro>

### SKILLCRUSH CODING CAMP

Get introduced to HTML, CSS, Javascript and Wordpress and learn about the career opportunities in tech. Participants are given access to Skillcrush's Coding Camp Slack community for additional support.

**Hours:** Self-directed

**Who's eligible:** Anyone

**Cost:** Free

**Duration:** N/A

**Info:** <https://learn.skillcrush.com/skillcrush-free-bootcamp/>



# Web Development

## Introductory Basics

### CSS, HTML

#### INTRODUCTION TO HTML

Master the basics of HTML5 in this course offered by Codecademy, a New York-based company specializing in interactive online tech courses.

**Hours:** Self-directed

**Who's eligible:** Anyone

**Cost:** Free

**Duration:** 7+ hours

**Info:** [www.codecademy.com/learn/learn-html](http://www.codecademy.com/learn/learn-html)

**Website:** <https://www.codecademy.com/learn>

#### INTRO TO HTML & CSS IN NYC

Learn how to hand code a webpage from scratch with this digital course from New York-based tech training company Noble Desktop covering the foundations of HTML and CSS.

**Hours:** Self-directed

**Who's eligible:** Anyone

**Cost:** \$150

**Duration:** 3 hours

**Info:** <https://www.nobledesktop.com/classes/html-intro#overview>

**Website:** <https://www.nobledesktop.com/>

#### LEARN CSS

Learn to set up file structures, edit text and colors, and create attractive layouts in this class, offered by Codecademy, a New York-based company specializing in interactive online tech courses.

**Hours:** Self-directed

**Who's eligible:** Anyone. Introduction to HTML is recommended as a prerequisite

**Cost:** Free

**Duration:** 15+ hours

**Info:** [www.codecademy.com/learn/learn-css](http://www.codecademy.com/learn/learn-css)

**Website:** <https://www.codecademy.com/learn>

## JAVA

### JAVA PROGRAMMING SERIES

Learn Java programming at your own pace with this package of instructor-led online courses from Lehman College. The series bundles two courses (Introduction to Java Programming and Intermediate Java Programming), teaching participants to write their own programs, how to save data using sequential data files and how to organize that information.

**Hours:** Self-directed

**Who's eligible:** Anyone

**Cost:** \$199

**Duration:** 12 weeks; six weeks for each of the 2 courses

**Info:** [www.ed2go.com/lehman/online-courses/learn-java-programming](http://www.ed2go.com/lehman/online-courses/learn-java-programming)

**For more upcoming dates:** [www.ed2go.com/lehman/](http://www.ed2go.com/lehman/)

## JAVASCRIPT AND RUBY

### CODING BOOTCAMP PREP

Learn to code with this full-stack, self-paced course that teaches two languages (Ruby and JavaScript) and job-hunting skills. The course, provided by the Flatiron School, also offers on-demand support and tools for connecting in real-time to students and instructors.

**Hours:** Self-directed

**Who's eligible:** Anyone. The class can act as an introduction for beginners or a prep-course for those eyeing a competitive coding bootcamp

**Cost:** Free

**Duration:** 75 hours

**Info:** [www.flatironschool.com/free-courses/coding-bootcamp-prep](http://www.flatironschool.com/free-courses/coding-bootcamp-prep)

**Website:** [www.flatironschool.com](http://www.flatironschool.com)

**Email:** [info@flatironschool.com](mailto:info@flatironschool.com)

**Phone:** 888-958-0569

### FRONT END DEVELOPER SUITE

Lehman College bundles together three online courses to teach students how to use CSS3, HTML5 and JavaScript to

build responsive websites optimized for smartphones, tablets and desktops.

**Hours:** Self-directed

**Who's eligible:** Anyone. Some experience in HTML recommended

**Cost:** \$299

**Duration:** 12 weeks

**Info:** [www.ed2go.com/lehmance/online-courses/front-end-developer-suite](http://www.ed2go.com/lehmance/online-courses/front-end-developer-suite)

**For more upcoming dates:** [www.ed2go.com/lehmance/](http://www.ed2go.com/lehmance/)

### INTRODUCTION TO JAVASCRIPT

Learn the basics and gain an understanding of the differences between client-side and server-side JavaScript. The course is one of several pre-recorded webinars offered by Noble Desktop, a New York-based tech training company.

**Hours:** Self-directed

**Who's eligible:** Anyone

**Cost:** Free

**Duration:** 2 hours

**Info:** [www.nobledesktop.com/seminars/intro-to-javascript](http://www.nobledesktop.com/seminars/intro-to-javascript)

**Website:** [www.nobledesktop.com](http://www.nobledesktop.com)

**Email:** [hello@nobledesktop.com](mailto:hello@nobledesktop.com)

### INTRODUCTION TO JAVASCRIPT

This course lays the foundation for using JavaScript in any environment. It's offered by Codecademy, a New York-based company specializing in interactive online tech courses.

**Hours:** Self-directed

**Who's eligible:** Anyone

**Cost:** Free

**Duration:** 35+ hours

**Info:** [www.codecademy.com/learn/introduction-to-javascript](http://www.codecademy.com/learn/introduction-to-javascript)

**Website:** [www.codecademy.com](http://www.codecademy.com)

### INTRO TO JAVASCRIPT

Master JavaScript basics and get introduced to functions, structures (such as arrays and objects) and jQuery.

**Hours:** Self-directed

**Who's eligible:** Anyone

**Cost:** Free

**Duration:** 50+ hours

**Info:** [www.flatironschool.com/free-courses/learn-javascript](http://www.flatironschool.com/free-courses/learn-javascript)

**Website:** [www.flatironschool.com](http://www.flatironschool.com)

**Email:** [info@flatironschool.com](mailto:info@flatironschool.com)

**Phone:** 888-958-0569

## INTRODUCTION TO JAVASCRIPT

This class covers JavaScript and basic programming concepts like variables, data types, and functions, if/then statements, arrays and loops. Students should be familiar with HTML and CSS.

**Hours:** Self-directed

**Who's eligible:** Anyone

**Cost:** Free

**Duration:** 8 hours

**Info:** <https://www.girldevelopit.com/materials/intro-js>

**Website:** [www.girldevelopit.com](http://www.girldevelopit.com)

## INTRO TO RUBY ONLINE

Explore the basics of Ruby with this immersive online course that helps you build your own online game. The course, provided by New York-based Flatiron School, offers on-demand support, an open-source curriculum and real-time collaboration.

**Hours:** Self-directed

**Who's eligible:** Anyone

**Cost:** Free

**Duration:** 30+ hours

**Info:** [www.flatironschool.com/free-courses/learn-ruby](http://www.flatironschool.com/free-courses/learn-ruby)

**Website:** [www.flatironschool.com](http://www.flatironschool.com)

**Email:** [info@flatironschool.com](mailto:info@flatironschool.com)

**Phone:** 888-958-0569

## PYTHON

### INTRODUCTION – PYTHON

Learn Python programming fundamentals, including reading and writing functions as well as data types, such as numbers, strings, lists, and dictionaries. This course is offered through Baruch College Continuing and Professional Studies.

**Location:** Remote/Online until further notice, usually in-person at Baruch College, 55 Lexington Ave, Manhattan

**Hours:** Tuesdays, 6:15 p.m. to 9:15 p.m.

**Who's eligible:** Anyone

**Cost:** \$545

**Duration:** 5 sessions

**Deadline:** Check site for future dates

**Info:** <https://registration.baruchcaps.com/baruch/course/course.aspx?C=3880>

**Website:** [www.baruchcaps.com](http://www.baruchcaps.com)

**Phone:** 646-491-6687

### LEARN PYTHON 2

This Codecademy course is a great intro

to both fundamental programming concepts and the Python programming language.

**Hours:** Self-directed

**Who's eligible:** anyone, a little basic coding experience is recommended

**Cost:** Free

**Duration:** 25 hours

**Info:** <https://www.codecademy.com/learn/learn-python>

**Website:** <https://www.codecademy.com>

### GOOGLE'S PYTHON CLASS

Google for Education offers a free Python class that includes written materials, lecture videos and lots of code exercises to practice.

**Hours:** Self-directed

**Who's eligible:** anyone, a little basic coding experience is recommended

**Cost:** Free

**Duration:** 2 - 3 hours

**Info:** <https://developers.google.com/edu/python>

**Website:** <https://developers.google.com/edu>

# Career Track Bootcamps, Accelerators and Intensives

## NYC WEB DEVELOPMENT

### FELLOWSHIP

The NYC Tech Talent Pipeline's Web Development Fellowship, a full-time, 17-week immersive training program, is designed to prepare New Yorkers with no previous professional web development experience for careers in Web Development at salaries of \$65,000 or more. Offered in partnership with Fullstack Academy, this project-based program, worth \$17,000, is offered free of cost to eligible applicants.

**Location:** Remote/Online until further notice, usually at Fullstack Academy, 5 Hanover Square 11th floor, Manhattan

**Who's eligible:** 18 years and older.

Participants must earn less than \$50,000 a year, be a New York City resident and be authorized to work in the U.S. Unemployed New Yorkers are eligible. Participants must not have prior professional (paid) experience in web

development or be currently working as a developer

**Cost:** Free, including materials; laptops and Metrocards are provided for students in need

**Duration:** 17 weeks

**Deadline:** 2020 applications have closed; check back for the next cohort

**Info:** [www.fullstackacademy.com/nyc-fellowship](http://www.fullstackacademy.com/nyc-fellowship)

**Email:** [nycfellowship@fullstackacademy.com](mailto:nycfellowship@fullstackacademy.com)

### ACCESS LABS INITIATIVE

This coding bootcamp, a partnership between WeWork and the Flatiron School, offers an immersive software engineering curriculum in which you'll learn in-demand languages such as HTML5 and CSS, JavaScript, SQL and Ruby. According to the Flatiron School, graduates of this program now work at top tech companies including Google, IBM and Microsoft.

**Who's eligible:** 18 or older. Must earn \$35,000 a year or less

**Cost:** \$0 upfront. Once employed, graduates pay a tuition of \$17,000 in

monthly increments of 10 percent of their income

**Duration:** 15 weeks

**Deadline:** Rolling. New cohorts start every 3 weeks. Each cohort comprises around 20 students.

**Info:** [www.accesslabs.org](http://www.accesslabs.org)

**Email:** [info@flatironschool.com](mailto:info@flatironschool.com)

**Phone:** 888-958-0569

### PURSUIT FELLOWSHIPS

Accepted fellows can choose from two tracks, iOS mobile development or full-stack web skills. Each track offers two phases: Pursuit Core, in which students learn fundamentals in computer science, coding, and testing by working collaboratively and building real-world projects; and the longer Pursuit Advance, which offers graduates career support. According to Pursuit, a social-impact organization based in Long Island City, current graduates work at Pinterest, Spotify, LinkedIn, Uber and a host of other companies.

**Location:** Remote/Online until further notice, usually at 47-10 Austell Place, 2nd Fl, Long Island City

**Who's eligible:** NYC residents 18 or older with demonstrated need, with an annual salary of no more than \$45,000. Women, underrepresented minorities, and people without college degrees are encouraged to apply.

**Cost:** \$0 upfront. Once employed at a tech job earning more than \$60,000, participants pay 12 percent of their income for 3 years

**Duration:** Four years total; 10 or 12 month intensive training course, followed by three years of one-on-one career and professional support.

**Deadline:** Check website

**Info:** [www.pursuit.org](http://www.pursuit.org)

## TECHHIRE OPEN CODE—WEB DEVELOPMENT

Learn programming fundamentals, product development, and web development. This program includes job search assistance and career counseling. It is one of two job-training tracks offered by LaGuardia Community College's TechHIRE Open Code.

**Who's eligible:** Participants must be

authorized to work in the U.S. full-time; not be currently attending college; be unemployed or underemployed (not working full-time); be 17-29 years old; have a high school diploma or the equivalent and meet all federal selective service requirements.

**Note:** LaGuardia TechHire OpenCode is part of a national study to test if offering individuals skills training and extra support services helps students complete training and find employment in middle-high skill jobs. Students must consent to participate in this study to be enrolled in the program.

**Cost:** Free

**Duration:** 6 to 9 months, depending on track

**Deadline:** Applications are accepted on an ongoing basis. Up to four cohorts will be held in 2020

**Info:** [www.laguardia.edu/techhire-opencode/](http://www.laguardia.edu/techhire-opencode/)



# Cybersecurity

## Introductory Basics

### **HACKING 101: INTRO TO CYBERSECURITY**

This free online course from The Flatiron School was developed by SecureSet, ranked as one of the best cybersecurity bootcamps according to SwitchUp. This course covers the basics of cybersecurity, including how virtualization works and why it's important, over eight video lessons and a practice lab.

**Hours:** Self-directed

**Who's eligible:** Anyone

**Cost:** Free

**Duration:** N/A

**Info:** <https://flatironschool.com/free-courses/intro-to-cybersecurity>

## Career Track Bootcamps, Accelerators and Intensives

### **CYBER NYC BOOTCAMP, OPERATED BY FULLSTACK ACADEMY**

The Cyber Bootcamp is a 17- or 26-week training program that launches participants into careers in cybersecurity that pay around \$85K a year. There's no higher education requirement—just a high-school diploma and the “grit” required to succeed in the program. The bootcamp combines technical cybersecurity skills training and hands-on experience in simulated cyberattacks with professional development like resume help, networking guidance, and an exclusive in-house job fair for students.

**Location:** Remote/Online until further

notice, usually in-person at Fullstack Academy, Floor 25, 5 Hanover Square, Manhattan

**Hours:** 35+ hours a week for full-time day program. 10+ hours per week for part-time evening program

**Who's Eligible:** Participants must be authorized to work in the U.S. full-time, and have a high school diploma or equivalent, basic computer skills (including keyboarding and working with files and folders) and a demonstrated interest in technology

**Cost:** \$17,910 full time, \$15,980 part time

**Duration:** 17 weeks full time, 26 weeks part time

**Deadline:** Rolling application, next cohorts begin April 7 (part-time), June 29 (full-time)

**Info:** <https://cyber.fullstackacademy.com/>

## CYBER NYC BOOTCAMP BRIDGE, OPERATED BY LAGUARDIA COMMUNITY COLLEGE

The Bridge program helps participants get into and succeed in Cyber NYC's Fullstack Cyber Bootcamp. The Bridge focuses on job-readiness for cybersecurity careers and will recruit and prepare students with nontraditional educational backgrounds for career success, as well as providing job placement and professional development services to these students.

The Bridge program is free, and participants receive full scholarship and wraparound services for the Fullstack Cyber Bootcamp as a part of the program. Location: Remote/Online until further notice, usually in-person at LaGuardia Community College, 31-10 Thomson Ave., Long Island City

**Hours:** 35+ hours a week for full-time day program. 10+ hours per week part-time evening program

**Who's Eligible:** Participants must individually make under \$50,000 annually/\$26.04 per hour, must be authorized to work in the U.S. full-time,

and have a high school diploma or equivalent, basic computer skills (including keyboarding and working with files and folders) and a demonstrated interest in technology

**Cost:** Free

**Duration:** 6 weeks full time + 17 weeks full time Cyber Bootcamp, or 12 weeks part time + 26 weeks part time Cyber Bootcamp

**Deadline:** Rolling application, next cohort begins early June

**Info:** <https://cyber.fullstackacademy.com/cyber-nyc-laguardia>

## GRACE HOPPER PROGRAM (GHP)

This engineering program immerses cis women, trans women, and non-binary individuals into the in-demand language of JavaScript, preparing them for careers as full-stack software engineers. The program, administered by Fullstack Academy, teaches front-end and back-end development, plus computer science fundamentals through lectures, hands-on workshops, and portfolio projects. GHP's network of instructors, speakers, students and grads provide a one-of-a-kind support

group for participants after the program ends. Since its inception in 2016, GHP has trained more than 500 software engineers and its graduates have been hired at top companies such as Google, Facebook, LinkedIn and more.

**Skill level:** Intermediate. Applicants need to be familiar with concepts like variables, loops, conditionals, functions, recursion, and general problem solving. Admission involves a rigorous assessment and interview process (which mimics the interview process for a tech job).

**Location:** Remote/Online until further notice, usually in-person at Fullstack Academy, 5 Hanover Square, Floor 25, Manhattan

**Hours:** Weekdays, 10 a.m. to 6 p.m.

**Who's eligible:** Cis women, trans women, non-binary individuals

**Cost:** \$3,000 deposit, which is subtracted from \$19,910 total tuition costs. The remaining \$16,910 is deferred to be paid back in nine monthly installments after a graduate secures a full-time, in-field position

**Duration:** 17 weeks, comprising remote and in-person phases. Remote phase, 4 weeks, 25+ hours per week; In-person phase, on

campus, 13 weeks, 45+ hours per week

**Deadline:** Rolling. Seven cohorts offered each year. Check website for 2020 dates

**Info:** [www.gracehopper.com/apply](http://www.gracehopper.com/apply)

**Website:** [www.gracehopper.com](http://www.gracehopper.com)

**Email:** [info@gracehopper.com](mailto:info@gracehopper.com)

**Phone:** 646-828-7156

## PER SCHOLAS TRAINING IN CYBERSECURITY

Participants learn job-related skills (Introductions to Unix/Linux, preparation for Cisco CCNA Cyber Ops certification)

as well as receive professional development training in this hands-on program from IT non-profit Per Scholas.

**Location:** Remote/Online until further notice, usually in-person at 804 E. 138th St., 2nd Floor, Bronx; 630 Flushing Ave., 6th Floor, Brooklyn

**Hours:** Weekdays, 9 a.m. to 4 p.m.

**Who's eligible:** 18 or older and authorized to work in the U.S. Applicants may qualify if they are unemployed or underemployed, and/or receive public benefits, such as subsidized housing or income support

**Cost:** Free (hardware and materials also provided)

**Duration:** 17 weeks

**Deadline:** Admissions are rolling. Six cohorts each year (24 students in each cohort) Application process includes an entrance exam (the Test of Basic Adult Education) and an interview

**Info:** <https://perscholas.org/apply/cybersecurity#overview>

**Email:** [psadmissions@perscholas.org](mailto:psadmissions@perscholas.org)

**Phone:** 718-991-8400

## TECH FUNDAMENTALS

This training course combines hands-on instruction with career prep. It is provided by NPower, a national non-profit that trains veterans and young adults for technology careers.

**Location:** Remote/Online until further notice, usually in-person at one of its two NYC campuses – 50 Greene Ave., Brooklyn; or 315 East 105th St, Suite 104, Harlem

**Who's eligible:** 18 to 25-year-olds.

Participants must be legally authorized to work in the U.S.

**Cost:** Free

**Duration:** 23 weeks total: 16 weeks, hands-on training; 7 weeks, paid internship

**Deadline:** Rolling admissions. Next start date: July 2020 (Virtual interviews have commenced)

**Info:** <https://www.npower.org/apply/tech-fundamentals/>

**Email:** [info@npower.org](mailto:info@npower.org)

**Phone:** 212-564-7010

## COMING THIS FALL

### CYBER NYC CCNY CYBERSECURITY

#### MASTER'S DEGREE PROGRAM

Cyber NYC's CCNY Cybersecurity Master's Program is actively enrolling students for the fall semester. This program is a unique interdisciplinary collaboration between the Departments of Computer Science and Electrical Engineering and merges solid theoretical foundations with electives and experiential learning opportunities developed by expert industry partners. In 2017, CCNY was named one of the nation's most ethnically diverse institutions, and the program is helping to build a more diverse and inclusive cyber workforce.

**Hours:** TBD

**Who's eligible:** Participants must have completed a bachelor's degree by the start of the program, with a minimum 3.0 GPA. Should have working knowledge of calculus, a programming language, algorithms/data structure and computer organization and microprocessors

**Cost:** Under \$20,000; this is a CUNY master's degree program, so financial aid and scholarships can be applied. Refer to CCNY's program page for more tuition info.

**Duration:** 1.5 years

**Deadline:** Applications now open on a rolling basis, priority application deadline of May 29, 2020

**Next start date:** Fall 2020 semester

**Info:** <https://cybersecurity.ccny.cuny.edu/Index.html>

**Email:** [jakeley@ccny.cuny.edu](mailto:jakeley@ccny.cuny.edu)

**Phone:** 212-650-7171



# Data Science & Analysis

## Introductory Basics

### **DATA ANALYTICS WITH EXCEL**

#### **POWERPIVOT**

Learn to use Excel to analyze and manipulate data imported from a range of databases with online course offered through Baruch College's division of Continuing and Professional Studies.

**Hours:** Saturdays, 9:30 AM-3:30 PM

**Who's eligible:** Anyone. Basic Excel knowledge is necessary

**Cost:** \$399

**Duration:** 3 sessions

**Deadline:** Check website for future dates; next course starts July 25, 2020

**Info:** <https://registration.baruchcaps.com/baruch/course/course.aspx?C=3988>

**Website:** [www.baruchcaps.com/](http://www.baruchcaps.com/)

**Phone:** 646-491-6687

### **GET STARTED IN DATA SCIENCE**

Gain an understanding of the skillsets data scientists need and Python's role in this field. This online seminar is offered by Noble Desktop, a New York-based tech training company.

**Hours:** Self-directed

**Who's eligible:** Anyone

**Cost:** Free

**Duration:** One session

**Deadline:** Live session on April 8, 2020 from 5-6:15pm. Contact for future dates

**Info:** [www.nobledesktop.com/seminars/get-started-in-data-science](http://www.nobledesktop.com/seminars/get-started-in-data-science)

**Website:** [www.nobledesktop.com](http://www.nobledesktop.com)

**Email:** [hello@nobledesktop.com](mailto:hello@nobledesktop.com)

**Phone:** 212-226-4149

## Career Track Bootcamps, Accelerators and Intensives

### DATA SCIENCE BOOTCAMP PREP

Get introduced to the data science industry with this online course that covers Python and machine learning as well as fundamental data types. The course, provided by the Flatiron School, also offers on-demand support and tools for connecting in real-time to students and instructors.

**Hours:** Self-directed

**Who's eligible:** Anyone with intermediate skills

**Cost:** Free

**Duration:** 75 hours

**Deadline:** N/A

**Info:** [www.flatironschool.com/free-courses/data-science-bootcamp-prep](http://www.flatironschool.com/free-courses/data-science-bootcamp-prep)

**Website:** [www.flatironschool.com](http://www.flatironschool.com)

**Email:** [info@flatironschool.com](mailto:info@flatironschool.com)

**Phone:** 888-958-0569

### PER SCHOLAS DATA

#### ENGINEERING

In this course from IT non-profit Per Scholas, participants will learn how to extract, scrub and manipulate real-time and warehouse data through hands-on classroom activities, case studies and more. Ultimately, students learn how to properly define a problem, design tests that yield valid solutions and prepare large sets of data for effective and efficient use by analysts. Career counseling and connections to employment are included.

**Hours:** Monday - Friday, 9:00am – 5:00pm

**Who's eligible:** Anyone with intermediate skills, a bachelor's degree and U.S. work authorization

**Cost:** Free

**Duration:** 12 weeks

**Deadline:** Applications for our next cohort are open now; apply today for next year's classes

**Info:** <https://www.platformbyps.org/nyc/de>

**Website:** <https://perscholas.org/apply>

**Email:** [psadmissions@perscholas.org](mailto:psadmissions@perscholas.org)

**Phone:** 718-991-8400

*Written by* **LINDA LACINA**

*Edited by* **LISA ARBETTER**

**& JASMINE BAKER**

*Illustrations by* **ERIN ROMMEL**

*Design by* **RINA STONE**