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<https://www.CapitalRoboticsClub.com>

*Beat this Pandemic Together*



# *Virtual Programming Course Series - 1st Course*

## *Python Basics*

Brought to you by  Robotics Team - VRC 99909A Rising Phoenix

- 2017 VEX Robotics World Championship - Excellence Award (the highest award)
- 2016 and 2019 VEX Robotics World Championship - Design Award
- 2018 VEX Robotics World Championship - Create Award
- 2016, 2018, and 2019 VEX IQ Robotics Virginia State Champion

Join us on the “*Team 999A Rising Phoenix*” YouTube Channel every Tuesday and Friday at 5:00 PM for free programming classes starting June 23rd! (Age 8 - 14)

### **Programming in Python Class Syllabus**

1. How Computer CPU works (from Atom - Circuit - Logic Gate - TTL - Adder to CPU)
2. Python Basics (Variable/types, Operators, Test & Loop, I/O, Function, OOP)
3. CodingBat (leading coding practice site used by best high schools to prepare students for advanced CS)

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## Programming Course Series

1. Python Basics
2. Practice Python with CodingBat.com
3. Java Foundations
4. Java Data Structures
5. RobotC Intro (Programming language for Vex IQ Robotics Competition)
6. C++ (PROS) intro (Programming language for VRC Robotics Competition)
7. Fusion 360 (CAD design) + Cura (Slicer) + 3D printing