

Master Teachers 2016 IACS Python Workshop  
Schedule

September 10<sup>th</sup>

9:00 – 10:00	Introduction and Review
10:00 – 11:00	Selected Practice Problems from HW
11:00 – 12:00	Example Lesson (Functions)
12:00 – 1:00	Lunch (provided)
1:00 – 2:00	Twython and the Twitter API
2:00 – 3:00	Designing and Answering Research Questions
3:00 – 4:00	Examples and Visualization

September 17<sup>th</sup>

9:00 – 10:00	Review, General Q&A
10:00 – 11:00	Turtles Introduction
11:00 – 12:00	Molecular Dynamics 1
12:00 – 1:00	Lunch (provided)
1:00 – 2:00	Molecular Dynamics 2
2:00 – 3:00	Molecular Dynamics 3
3:00 – 4:00	Molecular Dynamics 4

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List of Topics

- Basics of Jupyter
- Arithmetic in Python
- Data Types
- Variables
- Conditional statements
- While loops
- Lists
- Dictionaries
- Functions
- For loops
- Python File Input/Output (IO)