

# PIC 16 - Python with Applications - Winter 2019 Syllabus

**Instructor:** Hangjie Ji  
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**TA:** Andrew Krieger [akrieger@ucla.edu](mailto:akrieger@ucla.edu)

**Class Times:** MWF 10 am - 10:50 am PIC lab

**Discussion:** TR 10 am - 10:50 am PIC lab

**Office Hours:**

Hangjie Ji: MF 10:50 am - 11:50 am in PIC Lab,  
W 9:00 am - 10:00 am in MS 7354,  
and by appointment in MS 7354

Andrew Krieger: TBD

**Resources:**

- Schedule and reading material: <https://math.ucla.edu/~hangjie/teaching/Winter2019PIC16>
- Website: <https://ccle.ucla.edu/course/view/19W-COMPTNG16-1>  
This website will be where I post all important documents needed for this course. Homework assignments will also be submitted here.
- Grades: <https://my.ucla.edu>
- Textbooks: None. Reading material will be provided.
- PIC Lab: MS 2000 MWF 9-6, TR 9-9, Sat Closed, Sun 1-5  
For updated hours, see [www.pic.ucla.edu/piclab/](http://www.pic.ucla.edu/piclab/)

**Final Exam:** 8 AM - 11 AM on **Tuesday, March 19**, in PIC Lab.

**Course Content:**

This course will cover the following topics

1. Basics
2. Regular Expressions
3. Visualizations
4. GUI
5. Data Analysis
6. Image Processing
7. Networking
8. Symbolic Math
9. Machine Learning

**Homework:**

There will be 8 homework assignments total. The lowest homework score will be dropped. Homework is posted on Fridays and is due on Friday one week later. The homework assignments will be uploaded to CCLE and the cutoff time is final. No late homework assignments will be accepted, and you must follow the guidelines for homework submission in order for your file to be accepted. You may not email your homework. Also, do not show your code to anyone else; you may discuss the ideas of the homework, but do not share code.

If you believe a problem on a homework or a quiz has been graded incorrectly, or that your score was not correctly recorded in the MyUCLA gradebook, you must bring this to the attention of the teaching staff within 5 business days of the homework grade release date. Grading requests not initiated within this period of time will not be considered. Please verify in a timely manner that your scores are correctly recorded on MyUCLA.

**Quizzes:**

There will be 6 - 7 quizzes on Thursdays in discussion sessions. Each quiz covers material from the previous week. The lowest quiz score will be dropped. **There will be no make-ups for missed quizzes.**

**Final Project and Final Test:**

Everyone will work on a final project at the end of the course. You are encouraged to collaborate on the project and each team may have up to three people. For the final project, you will choose a programming challenge from a set of options. You will have three weeks to complete the final project. You are graded on correctness of your code and a report that you write to accompany your code. There is also a final test. This test has questions specific to the final projects as well as general questions.

**Grading:**

Your final grade is determined as follows:

Homework	40%
Quizzes	10%
Final Project	20%
Final Exam	30%

**Academic Honesty:**

Cheating is not just copy-paste! Cheating involves copying parts of code or sharing your code with others; in general, do not share your code with anyone! If you need help, ask the TA or the professor.

**Special Needs:**

If you qualify as a special needs student please let me know as soon as possible so that we can make arrangements. We are able to make accommodations but we do need to know well in advance.