

## Lab Syllabus

Anthro 5221 & Biol 5221  
Lab: F 1–3PM

August 14, 2017  
1110 Marriott Library

The lab is equipped with Macs, but you are welcome to bring your own laptop if you prefer. In any case we encourage you to install Python 2.x on your own personal computer, because you may want to work on the exercises outside of class.

**Due dates** Lab reports are due a week after the date of the lab. If there is no class on that due date, the report is due at the following class meeting.

**Required readings** All required readings are available on the course website. (1) *Just Enough Python* (JEPy); (2) *Lab Manual for Anth/Biol 5221*.

**Recommended readings** *Beginning Python: From Novice to Professional*, 1st Edn, by Magnus Lie Hetland, 2005. (You'll have to order this. We suggest the 1st edn. (2005).

In the schedule below, “NO LAB” indicates days that have lecture but no lab; “NO CLASS” indicates days with neither lecture nor lab.

<b>Date</b>	<b>Lab</b>	
Aug 25 F	Python: introduction	JEPy: Chs 0–1
Sep 01 F	Python: loops and lists	JEPy: Ch 2
08 F	Python: list magic and functions	JEPy: Ch 3
15 F	Simulating drift and mutation	Lab Ch 4
22 F	*** NO LAB	
29 F	Simulating gene genealogies	Lab Ch 5
Oct 06 F	Using simulation to test a statistical hypothesis	Lab Ch 6
13 F	*** NO CLASS	
20 F	Simulating selection and drift	Lab Ch 7
27 F	Using HapMap	Lab Ch 8
	HapMap: heterozygosity	Lab Ch 9
Nov 03 F	*** NO LAB	
10 F	Simulating selection and drift at two loci	Lab Ch 10
17 F	LD in the human genome	Lab Ch 12
24 F	*** NO CLASS	
Dec 01 F	LD near human lactase gene	Lab Ch 13