

EXECUTIVE SUMMARY

The Teaching Team

Faculty Sponsor

Risa Wechsler, Associate Professor of Physics and of Particle Physics and Astrophysics

Instructors

Conrad Stansbury, chstan@stanford.edu
Office Hours: WF 1–3 p.m. outside Y2E2 Coupa

Course Advisors

gehrlich@stanford.edu Gabe Ehrlich
Office Hours: by appointment

Qingyang “Young” Xu, youngxu@stanford.edu
Office Hours: by appointment

sunild93@stanford.edu Sunil Deolalikar
Office Hours: by appointment

To email all instructors: physics91si.instructors.2015@gmail.com

Learning and coding can both be frustrating. Feel free to come by our office hours so that we can help you resolve the issues that are frustrating to you. We are also happy to use office hours to go beyond the scope of the course, or just to chat about coding in Python and why we care about it.

Course Description

We’ll help you learn computing skills that you can use for research in the natural sciences, and to transition your computing skills from a classroom to a research environment. Topics include the Unix operating system, the Python programming language, and tools for data analysis, simulation, and optimization. We’ll discuss more advanced topics as time allows.

Class Location

Tue/Thu 4:15–6:05 in Lathrop 290.

Prerequisite

CS 106A or equivalent. We’ll teach Python as a second language, not a first language.

Expectations

This class is graded on a Satisfactory/No Pass basis. In order to guarantee a passing grade, you need to complete the final project satisfactorily (we’ll provide a rubric), on time, in its entirety; be present for every lesson; and submit substantial working code at the end of every lab. If you do not complete one or more of these requirements, let’s talk, but we can’t guarantee you’ll pass.

Our job is to make every class of the class transparent, rewarding and productive for you. Our plan for the class includes scaffolds to help you learn smoothly from assignments. Daily lab assignments and weekly final project milestones will be handed out in paper and/or online, and our expectations will be articulated verbally.

If ever our expectations are unclear, please ask! If ever you feel underprepared or overprepared to complete an assignment, please let us know!

Course Website: <http://physics91si.stanford.edu>

Throughout the course, we will maintain a website for your reference. This website will have final project reminders, PDFs of handouts from class, and additional resources for your perusal.

Course Schedule

Please see the last page of the syllabus for the course schedule. It is also available on the course website.

Announcements

Announcements will be emailed and posted on the course website.

Students with Documented Disabilities

Students who may need an academic accommodation based on the impact of a disability must initiate the request with the Office of Accessible Education (OAE). Professional staff will evaluate the request with required documentation, recommend reasonable accommodations, and prepare an Accommodation Letter for faculty dated in the current quarter in which the request is being made. Students should contact the OAE as soon as possible since timely notice is needed to coordinate accommodations. The OAE is located at 563 Salvatierra Walk (phone: 723-1066, URL: <http://studentaffairs.stanford.edu/oae>).