

Contact Information

Instructor: Jessica Huynh-Westfall

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To contact me, please, contact me through Canvas mail, not my SJSU email.

Office Hours

Friday 1:00PM-2:45PM, DH282

Course Description and Requisites

Hands-on Python programming skills for data analysis. Skills include finding a solution for a given problem and casting it as an algorithm, translating an algorithm to executable code, and debugging and testing code. Applications focus on computational techniques to understand, analyze, and visualize data.

Prerequisite(s): CS22A with a grade of "C-" or better, or consent of the instructor; Allowed Majors: Data Science, Biology (all) or Chemistry (all).

Letter Graded

Classroom Protocols

Students are expected to adhere to the Student Conduct Code found at <https://www.sjsu.edu/studentconduct/policies.php> (<https://www.sjsu.edu/studentconduct/policies.php>). Additionally, students should regularly attend lectures, treat instructors and peers with respect, and refrain from the use of cell phones during any classroom activities.

Students are requested to use the Canvas message function to contact the instructor. Private messages sent to the instructor's email address gets lost due to the large volume of emails received. The instructor does not write messages after normal business hours, on weekends or holidays.

Reviewing code for the homework and technical trouble-shooting should be done during the office hours.

Never send your entire code for an assignment to the instructor. The instructor will not fix all the bugs in your code.

Regular class attendance is expected. Students are responsible for all material presented in all classes.

Grades assigned are final, unless there was an error in the grading. If a student wants to request a regrade of a homework or test, please follow instructions on the "Regrade request" page on Canvas. A request for a regrade is not a technique to drum up a few more points. If the course instructor thinks a component was scored too generously the first time, it may be lowered in a regrade. Thus, regrading may result in a lower grade.

Your commitment as a student to learning is evidenced by your enrollment at San Jose State University. The University Academic Integrity Policy S07-2 at <http://www.sjsu.edu/senate/docs/S07-2.pdf> (<http://www.sjsu.edu/senate/docs/S07-2.pdf>) requires you to be honest in all your academic course work. Faculty members are required to report all infractions to the office of Student Conduct and Ethical Development. The Student Conduct and Ethical Development website is available at www.sjsu.edu/academic-integrity

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...s data t... basic techniques such as function calls, loops, and
... several basic data structures such as lists, arrays, and dictionaries,
... structures
... sized problem down into smaller parts and solve each sub-problem
... debug programs.
... ent objects and associated methods.

... Learn about porting...

Course

- Terminal or Command prompt
- [Google Colab \(https://colab.research.google.com/\)](https://colab.research.google.com/) with Chrome or any supported web browser

Course Requirements and Assignments

Three exams will be conducted during the regular class hours. A tentative schedule can be found on Canvas.

The exams are comprehensive and will contain multiple choice questions, true/false and short answer questions, and oral coding exams. One page (8.5"x11") of handwritten notes allowed.

No make-up exams will be given if a student misses the midterm exam submission deadline (except for a legitimate excuse or other personal emergencies and student can provide documented evidence).

There will be in-class and take-home assignments. The purpose of assignments is to develop students' understanding of the material and the skills in problem-solving. Assignments include code exercises, oral presentations, and projects. Please check the tentative schedule below.

All assignment solutions that you submit must be completely your own work (i.e., your solution cannot be copied from another source, such as other students, the internet, etc.). While it is fine to discuss the worksheet/assignment solutions with other students, solutions submitted on Canvas should reflect your own efforts. Oral examination might be requested. All homework should be submitted on Canvas and GitHub, not by e-mail.

Final project and presentation will be used to assess student's understanding of the course materials at the end of the semester instead of a final exam. Each team will have a unique problem to solve for the final project.

Final exam will be given on Thursday, May 15 from 8:30 AM-10:30 AM. If there is a time conflict, please inform the instructor at least two weeks in advance for rescheduling.

Grading Information

Exam 1	20%

