

**San José State University
Computer Science Department
CS/BIOL 123A Bioinformatics I, Sec 01 & 02, Spring 2021**

Course and Contact Information

Instructor: Leonard Wesley

Office Location: MH 212

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Office Hours: Tuesdays 7:00AM – 9:00AM,
Zoom URL For Spring 2021:
<https://sjsu.zoom.us/j/83075592462?pwd=LzV6VEwxUitLNkJoRnJ0RHZLSUZpQT09>

Class Days/Time: Section 01: Tuesdays and Thursdays 3:00PM – 4:15PM
Section 02: Tuesdays and Thursdays 4:30PM – 5:45PM

Classroom: Zoom Lecture URL: See the “Zoom Link Information”
module in your assigned course section on Canvas.

student actually allocates to the course. The nine (9) hours per week estimate is based

In-Class Exercises

There will be four in-class exercises where groups of two to four will be formed to work on an assigned exercise. In-class participation is **mandatory**, and an attendance sign-up sheet will be passed around to verify participation. The assigned exercises are intended

Tentative course calendar of assignment due dates & exam dates:

(Please note that course calendar below, and its content is “subject to change with fair notice”)

Week and Class Mtg #	Tue	Thur	Module # & Name	TOPIC	Assignment See Canvas For Module & Weekly Assignment Details and Due Dates
Week 1	N/A	1/28	#1 Biology Basics	1/28 Intro To Course: -Topics, learning objectives, course logistics, Instructor background - Syllabus	Learning Module #1
Week 2	2/2	2/4	#1 Biology Basics	2/2: - Intro to molecular cell biology, DNA, RNA, and the central dogma. - DNA Replication, Transcription, and Translation 2/4: - DNA Replication, Transcription, Translation, Proteins	Learning Module #1 February 8 th Last Day To Drop Classes
Week 3	2/9	2/11	#2 Bioinformatics DBs	2/9: - NCBI Gene, Protein, and Nucleotide DBs 2/11: - NCBI Gene, Protein, and Nucleotide DBs	Learning Module #2

Week 9	3/23	3/25	#4 Phylogeny	3/23: - Molecular phylogenetic trees 3/25: - Molecular phylogenetic trees	Learning Module #4
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Week 14	5/4	5/6	#5 NGS	5/4: - CRISPR-CAS9 cont. 5/6: - CRISPR-CAS9 cont.	Learning Module #5
Week 15	5/11	5/13	#5 NGS	5/11: - CRISPR-CAS9 cont. 5/13: - Finish CRISPR-CAS9 - Project Q&A	Learning Module #5

Final Project Report and Code Due To Canvas

During quizzes and exams, computer cameras MUST BE ON and the student visible at all times during the quiz or exam. Failure to have a working camera during exams will result in a minimum 50% reduction of the quiz or exam score.

When On Campus:

is a dual purpose room. It can be a re

Grading Percentage Breakdown (NOTE: Ranges might change if point totals change)

Grading Percentage Breakdown		
Percent of Total Points	Points	Letter Grade
	≥	
	≥	
	≥	
	≥	
	≥	
	≥	
	≥	
	≥	
	≥	
	≥	
	≥	
	≥	
	≥	
	<	

HOW TO CALCULATE/ESTIMATE YOUR GRADE:

If students would like to calculate their

Late Assignment Submission

Late assignments will receive a 25% point deduction of a graded assignment for each 24hr period the submission is late. For example, if an assignment is worth 10 points, and the grade for the assignment is 8/10, and the assignment is submitted one day late, then the point deduction equals 2.5, and the final grade for the assignment is $\text{MAX}(0, 8 - 2.5) = \text{MAX}(0, 5.5) = 5.5$.

Making Up Missed Assignments

An opportunity to makeup missed exams, homework, in-class exercises, programming assignments, and so forth will be provided if and only if verifiable documentation of a compelling reason (e.g., illness, accident, death in the immediate family, work related) for missing the assignment is provided within one week from the student's ability to return to class. It is the student's responsibility to (1) contact the instructor if an assignment has or will be missed; (2) obtain verification from the instructor that the student will be allowed to make up the assignment, subject to acceptable and verified documentation; and (3) make arrangements with the instructor to submit all assignments on time.