

**BIOL 1020-001
CSU Stanislaus
Course Syllabus**

Instructor: Cole Dutter

Phone: N/A

Office Hours: Monday, Wednesday 3:00-4:00 pm

Office: 251 Naraghi Hall

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Labs: Thursdays 2:00 - 4:50 PM, 223 Naraghi Hall

Text: *World of Biology 1020 Laboratory Workbook, 5th ed. by Stevens and Fleming. (2012).* Please bring this text to lab each week. Note also that the lecture textbook (from BIO 1010) will also be useful for labs.

Announcements: Check your email for updates.

Course Description: World of Biology is intended to provide students with laboratory experience in various biological contexts. We will explore topics covered in BIOL 1010 with the added luxury of actually performing some of the experiments discussed in lecture. Note that this class is graded separately from BIOL 1010.

Objectives: After completing this course you should be able to (1) demonstrate your ability to think like a biologist and (2) speak/write coherently about biology with biologists and non-biologists alike.

Class Participation: You should arrive to class on time and ready to learn. Assignments are due at the start of class. You will talk frequently in small groups, and sometimes present your ideas to the entire class. Be honest, hold yourself accountable for your actions, and hold me accountable for mine.

Evolution: "Respect for data, comfort in faith." Someone much wiser than I came up with this saying. If you can live by it then you'll be fine in this class. Evolution and natural selection are central tenets of biology and will be critical aspects of this course, openly discussed and referred to frequently.

Math: Every biologist uses math and statistics. In this course you will use some math as it applies to biology. This mostly includes making and interpreting graphs, and may also include calculating averages and variation around an average. I will help you and there will be chances to practice. NOTE: a calculator is good for this class, and knowing how to use MS Excel effectively is better.

Lab Policies: 1) Safety. 2) Teamwork. 3) Data.

Please arrive to class **on time** and ready to learn. You should expect to talk frequently in class and work productively both in groups and alone. Please demonstrate proper care and use of lab materials and supplies. Most importantly, please do not disrupt the learning environment, rights, and property of others. Of course, all cell phones/iPods/etc. should be **turned off** during class.

Like any lab course, this one requires your active participation each week. As per university regulations, students with excessive tardies or absences will be dropped from the course. Note that, since the lab set-up changes each week, it will not be possible to make up missed labs or quizzes. Unexcused absences will result in no points for the week. **Quizzes will begin promptly at 2 PM.** If you are late you will have less time (or none!) to complete the quiz, so please make every effort to arrive on time.

The final exam for this class is optional! It will be comprehensive and will be structured similar to lab quizzes.

In most labs you will work in small groups of 2-6 people, but each student is required to hand in their own work! These will be due at the beginning of the next lab meeting.

Cheating and Plagiarism: Don't do it! Your work should reflect your own effort and words. Any verified instance of cheating and/or plagiarism will be unpleasant for all involved.

Recording Lectures and Special Accommodations: Students with documented disabilities should seek special accommodations for all classes through the DRS office on campus. If DRS sends me a file on you that lists recording lectures as an acceptable accommodation, then you may record my lectures. Otherwise, you have to do it the old-fashioned way with pen and paper. If you record my lectures in any form (video, audio, still pictures, etc.) without accommodation from DRS, that constitutes intellectual property theft and will be a bad situation for all involved.

Grading: All materials will be graded and returned to you the following lab period. Grades are based on lab write-ups, quizzes, participation, and the optional final exam. No other points are available. Write-ups will be graded based on completing all questions, data collection and careful presentation of graphs/diagrams. **I will grade only five lab write-ups over the term; I will not tell you in advance which these will be,** so your best bet is to turn them all in on time. We will go over all lab write-ups in class and you will have an opportunity to see a key or at least check your answers for correctness. Late work will not be accepted except in dire emergencies; you must provide documentation of hardship. All submitted work must be original; no photocopies will be accepted.

Assignment	Points
10 quizzes x 10 pts. each (lowest score dropped)	90
5 write-ups x 20 pts. Each	100
7 write-ups submitted, not graded, 5pts. each	35
Final exam, optional, comprehensive	30
TOTAL	225 or 255

Tentative Lab Schedule:

Week	Date (Thursdays)	Activity
1	30 Jan	Attendance, Safety
2	6 Feb	Nature of Science
3	13 Feb	Cells & Microscopes
4	20 Feb	Transport
5	27 Feb	Metabolism
6	6 Mar	Mitosis
7	13 Mar	Genetics & Meiosis
8	20 Mar	Phylogenetic Trees
9	27 Mar	Evolution (outside, bring calculator)
10	3 April	Plants
11	10 April	Animal Adaptations
12	17 April	Population Parameters
13	24 April	Spring Break, NO CLASS!
14	1 May	Central CA Ecology
15	8 May	Last write-up due, optional Final Exam