

BIOL 1020-002-003 Syllabus
Campos, Fall 2015

**CSU Stanislaus BIOLOGY 1020-002-003: “World of Biology
Laboratory”
Course Syllabus**



**Labs: Tuesday 11:00-1:50 PM, 223 Naraghi Hall of Science
Tuesday 2:00-4:50 PM, 223 Naraghi Hall of Science**

Instructor: Erica Campos

Office: 254 Naraghi Hall of Science

Office Phone: (209) 664-6548 **phone only answered during office hours*

Office Hours: Monday 11am-12pm, Friday 12pm-1pm or by appointment

**schedule appointment at least 24 hours prior*

e-mail: ecampos1@csustan.edu **best way to contact me is by e-mail*

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Required text: “World of Biology 1020 Laboratory Workbook” 6th edition by Stevens and Fleming (2014).

** Purchase from campus bookstore (no photocopies), and **bring to every lab***

Access on the BIOL1020 class BlackBoard site, www.blackboard.csustan.edu (your login name and password is the same as your CSU Stan account).

If you do not have access to a personal computer, the CSU Stan computer labs are available. The one closest from our classroom is down the hall in N201.

Additional resources;

- The BIOL 1010 text, “Campbell Essential Biology” (4th edition or newer) by Eric J. Simon, Jane B. Reece, and Jean L. Dickey (2010 or newer)
 - * *“Mastering Biology Online” available with purchase of text*
- CSU Stanislaus tutoring center (112 Library Building). Services provided free of charge to CSU Stan students on a first come first serve basis
- Youtube.edu, search for biology topics
 - à Crash Course Biology
 - à ASAP Science
 - à Kahn Academy
 - à Eyes of Nye

Announcements: Check your CSU Stan email, and on the class BlackBoard site.

Catalog Description: (1 Unit) Basic laboratory and/or field studies in various biological areas. (Topics to be specified in Class Schedule) Satisfies laboratory requirement in natural sciences. Different topics can be taken for credit under this number, but may be taken only once for GE credit. Satisfies G. E. area B2. Prerequisites: BIOL 1010 or equivalent enrollment. (Laboratory: 2 hours) (Fall, Spring)

concurrent enrollment. (Laboratory, 3 hours) (Fall, Spring).

Course Description: The course is intended to provide students with laboratory experience in various biological contexts, mostly related to concepts covered in BIOL 1010. Note that while this lab does parallel BIOL 1010 closely, it is taken and graded separately from BIOL 1010.

Course Objectives: After completing this course you should be able to;

- (1) Demonstrate your ability to think like a biologist.
- (2) Speak/write coherently about biology with biologists and non-biologists alike.
- (3) Use biological knowledge to make informed decisions in your life.

How to be a successful student in this class:

Before lab:

- Complete homework assignment(s), proof-read for errors, staple multiple pages
- Read through your lab workbook and take notes on upcoming lab
- *HINT! quiz questions are based off of lab workbook content*
- Use additional resources to get a good understanding of the upcoming topic
- Check for any announcements

Bring to lab:

- **Your 1 page (front side) notes to use for the quiz** and during class
- Assignment(s) due
- Lab notebook
- Phone calculator or standard calculator

During lab:

- Show up on time
- Turn in assignments due at the beginning of class (e-mailed assignments are not accepted), and check for hand-outs
- Ask questions and share your comments, ideas and opinions
- Take notes
- Do not disrupt the rights, property, or learning environment of others. Act in the interest of others and help create and maintain an environment that is comfortable and conducive to learning

After lab:

- Clean up your area, or other obvious messes
- If you see someone else who has fallen behind or is confused, help them!

Math: We will be using simple statistics such as calculating averages and variances, as well as making and interpreting graphs.

**A calculator and skills in using Microsoft Excel will help you. If you have not used Excel for calculating and analyzing data, including plotting graphs, search for tutorial youtube videos to get a better understanding*

Safety: Please demonstrate proper care for and use of lab materials and supplies. A safe lab is a productive lab. Please report any injuries, spills, broken equipment, or any other safety concerns to the instructor immediately. If you see something (or hear, smell, feel...) say something! *Trust your gut instinct!*

à *NO food or drink (not even water!) in the lab because of the possibility of contamination with lab materials. You can store your food and water outside in the hallway.*

à *Because labs are contaminated places, it is smart to clean your workspace, and to wash your hands (and elbows) before you leave. Consider that animal dissections are frequently performed on lab benches!*

à *Wear closed-toed shoes and protective clothing – we will be working with glass, fire, sharp instruments, and chemicals. Do not wear your favorite designer wears, consider that we will be working with stains.*

à *When working away from your desk, push your chair in (with arm rests raised up) to*

prevent tripping hazards and cluttered aisles

à Store your belongings under your desk, not on top of table (contamination hazard), or on the floor (tripping hazard)

à When working with an open flame, secure long hair by tying it in a pony tail

à If there is broken glass, do not try and clean it up all by yourself. Alert the instructor and the rest of the class to avoid the area where glass shards may be.

Teamwork: Like any lab course, this one requires your active participation each week, frequently with your lab partner(s), and with the class as a whole. Your lab partners depend on you (and you depend on them) for working through each lab. This includes proper set up of experiments, data collection, and thoughtful interpretation of results. When working in groups it is encouraged to share ideas, but **each student is required to do their own work (make their own interpretations), and turn in their own work.** You do not always have to have the same lab partner, but you cannot habitually work by yourself.

Cell Phones and other internet enabled devices: Cell phones, tablets, laptops, etc. are allowed to be used during class time, but **ONLY** for educational purposes such as using your calculator app, re-watching a flip-class video, accessing notes, or searching the web to help answer a question from the lab. ***Cell phone and other Internet enabled device use is not permitted during assessments such as quizzes.***

Special Accommodations: This course is Americans with Disabilities Act (ADA) accessible. Closed captioning is available on the flip class video series. Students with documented disabilities should seek special accommodations for all classes through the Disability Resource Services (DRS) office on campus (2nd floor MSR building). If DRS notifies the instructor that you require ADA accommodations, then the instructor will provide those accommodations (such as video/audio recording, hiring a note-taker, extended test time etc.).

** If you record this lab in any form (video/audio/photo etc.) without permission or without accommodation from DRS, that constitutes intellectual property theft*

Student Athletes: Your coach should contact the instructor if you are going to miss lab for games/matches ASAP. I will accommodate your schedule by allowing alternate lab dates if possible, otherwise I will provide an alternative assignment to excuse missed points.

If you know you are going to miss a lab and want to make it up, notify the instructor AT LEAST 2 weeks prior so that accommodations can be made.

Absences: *It is extremely unlikely to make up missed labs. Unexcused absences always result in zero points. Absences may be excused under dire circumstances/emergencies if a hard-copy (no-email), signed documentation of hardship is provided (such as a sick note from campus health center).*

Cheating and Plagiarism: Your work should reflect your own ideas, efforts, and words. *Cheating in any form is inappropriate conduct and will be dealt with swiftly and severely according to Sections 41301-41304 of Title 5 of the "California Code of Regulations" which includes expulsion, suspension or probation.*

More information regarding what constitutes plagiarism can be found at;
www.library.csustan.edu/gorenstein/helpguides/plagiarism.htm

**HINT! "sharing" your graphs is considered cheating! Make your own graph, even if you have the same data as everyone else*

Important Date:

September 21st – Last day to add or drop the course *and* Last day to change your grading option with my signature. I strictly adhere to the grading option Academic Records has on file for you when I submit final grades. I will not change grades once final grades have been submitted.

Grading: All homework, quizzes, and extra credit assignments will be graded and returned to you the following lab period, or ASAP. You must fill out everything (possible

in ALL chapters of your lab book be neat, and be thorough. You can keep your lab book

in ALL chapters of your lab book, be neat, and be thorough. You can keep your lab book during the semester because you will need to study from it, but the instructor will be grading you during class on the completion of your lab book.

Your lowest quiz score will be dropped. This means if you cannot make it to class on time to take your quiz, have an unexcused absence, etc., that score of 0 will not count against you. If you are present at every lab and take every quiz, you are welcome to take every quiz and receive 10 points extra credit for not using your “freebie.”

Late work will not be accepted except in dire circumstances/emergencies, and then you must provide documentation of hardship. All submitted work must be original and turned in during lab; photocopies or scans (e-mail) are not acceptable.

Assignments and Points Available:

A = 90 or above B = 80-89 C = 70-79 D = 60-69 F= 59 or below

No +/- will be applied to your final grade!

Required Assignment	Points
Cells, Microscopes, and Measurements quiz	10
Cells, Microscopes, and Measurements lab questions	10
Scientific Method quiz	10
Daphnia scientific paper	30
Cell Transport quiz	10
Cell Transport lab questions	10
Daphnia paper peer-review	20
Cell Metabolism quiz	10
Cell Metabolism lab questions and graphs	10
Mitosis quiz	10
Mitosis lab questions	10
Meiosis and Genetics quiz	10
Meiosis and Genetics lab questions	10
Phylogenetic Tree quiz	10
Phylogenetic Tree lab questions and trilobite tree figure	10
Evolution quiz	10
Evolution lab questions and graphs	10
Plant Adaptation quiz	10
Plant adaptations lab questions	10
Animal adaptations quiz	10
Animal adaptations lab questions	10
Population and growth curves quiz	10
Population and growth curves lab questions and graphs	10
Ecology quiz	10
Ecology lab questions (including video questions) and graphs	10
Attendance and participation	30
Lab workbook completion	50
<i>Optional Final Exam</i>	30
TOTAL POINTS	350
<i>WITH OPTIONAL FINAL EXAM</i>	380

