



BIO100 THE LIVING WORLD

Syllabus

Spring 2021



COURSE
DESCRIPTION

LEARNING
OUTCOMES

REQUIRED
MATERIAL

GRADING

COURSE
STRUCTURE

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BANG

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<https://asu.zoom.us/j/4645852018>



[@asubiologist](https://www.instagram.com/asubiologist)

Lecture:

Mondays 4:50 PM - 6:05 PM

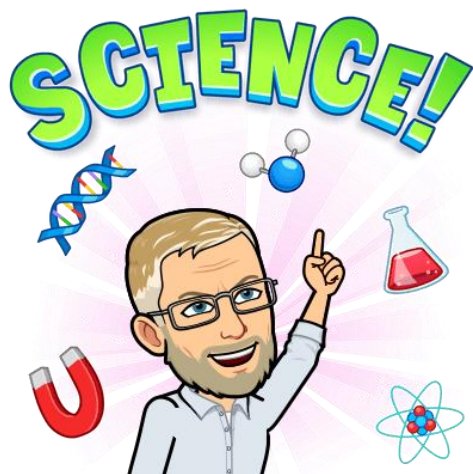
Recitations:

Tuesdays 10:30 AM - 11:45 AM or 12:00 PM - 1:15 PM or

Thursdays 10:30 AM - 11:45 AM or 12:00 PM - 1:15 PM

COURSE DESCRIPTION

This course is as much about learning to think scientifically and skeptically as it is about learning biology. The focus of the class is to understand biology and the implications for your own life and the world around you. This general biology course will be a learning experience that will serve you for the rest of your life as you make decisions about your health, which public policies to support, and the core values you embrace. Many of the course's labs are designed to build your skills in understanding data and their presentation, in framing and testing your own hypotheses, and in evaluating the claims of others based on the reasons and evidence they give. Lectures and labs draw on biology, history, philosophy, and current events to show how knowledge of the living world and the scientific approach can be used to make informed decisions on a range of topics.



LEARNING OUTCOMES

- A. To develop understanding of the nature of science and how to reason scientifically.
- B. To develop understanding of key biological concepts and theories.
- C. To develop the ability to apply scientific reasoning skills and biological knowledge to decision-making, question answering, and problem solving situations relevant to your life and to the society and world in which you live.
- D. During class via ASUSync, we expect there to be lively chat discussions and debates about the concepts we are studying. We also expect you to remain respectful of your classmates and instructors at all times. Any threatening, intimidating or harassing behavior may be punished by expulsion from the class.

REQUIRED MATERIAL

- A. All course related content will be available on our Canvas course site (at my.asu.edu). It is your responsibility to note announcements posted on the website (e.g., syllabus revisions, course announcements, assignments). You will need an ASURITE computer ID to access the website. Go to the Computing Commons to get one if you have not already done so. Please bear in mind that the website is *not* meant to serve as a substitute for human ASU Sync contact. If the need arises, please do not hesitate to meet with your professor or co-instructors via Zoom office hours or by appointment.

- B. You will use an online courseware from CogBooks in this course. You will receive instructions on how to access CogBooks during the first week of class.



- C. We will use iClickers for participation in lectures and recitations. You will create a free account and download an iClicker Reef App onto your smartphone, tablet or PC/MAC. Follow the instructions on Canvas to create an iClicker Reef account.



- D. Labs will be online using "Labster" Labs. To purchase your semester package, go to the Labster Lab link on Canvas.



- E. Students with disabilities that require course modifications must register with the Disability Resource Center (DRC) at the Matthews Center. Modifications will be made after registration and notification from the DRC office. It is the student's responsibility to initiate the registration process. All video lectures are subtitled.



GRADING

Grades will be based on your total points out of 1000 total possible points. NOTE: We do not use the +/- grading system in BIO 100 except for A+ only (970 points and above). The final letter grades for the course are based on the **TOTAL NUMBER OF POINTS** that you accumulate from the following assessments:

	Points
CogBooks Quiz questions	200
10 ACE assignments (5 points each)	50
In-class participation (Worksheets, clicker questions, etc.)	50
4 Exams (100 points each)	400
10 Labs, 30 points each	300
Total	1000

Bonus points. There might be bonus points.

COURSE STRUCTURE

A. CLASS via ASU Sync

1. CogBooks concept quiz questions

Each week you will be expected to have completed all of the required reading and videos in CogBooks. CogBooks concept quizzes are due on Sunday at 11:59 pm AZ. You have two attempts on each quiz, and the highest score counts.

2. Applied Concept Exercise (ACE) assignments (recitations)

ACE quizzes or assignments will be posted online following the ACE class (recitation) and will be due on Canvas at 5:00 pm the following day unless otherwise noted. ACE assignments will address specific topics presented both as an online weekly article, which will be posted on Canvas before recitation, and in-class work. Your performance as an individual and in groups will depend on these readings as well as on the topics discussed during the ACE class session (recitation). Note: Some ACE exercises will be completed as a group during class and must be turned in for grading the same day.

3. In-class participation

In-class participation falls into two different categories: (1) weekly topic questions and ACE class exercises, with a clicker point value of 0.5 for a correct answer and partial credit for incorrect answer and (2) in-class/ASU Sync worksheets to be done individually or in groups. The number of clicker questions will vary during each class. You must be present/Synced in class in order to get the worksheets.

An unknown number of questions will be asked this semester. You must have at least 75% of the clicker questions correct to receive full score for clicker participation. We do not accept written answers to clicker questions – the only way to obtain these points is to use your i – Clicker in class/Synced. Please be patient, it may take several days for clicker points to be recorded in the Gradebook. If you forget your clicker, your clicker malfunctions, you miss class, etc., you will miss the points. However, you only need 75% correct to get full score.



4. Exams

Exams will be administered online during the scheduled class date and AZ time using LockDown Browser and Respondus Monitor. This software will lock down the accessibility features of one's web browser during the exam. Respondus Monitor requires one's web cam to be enabled to record your screen and webcam to flag any "irregularities" for the instructor to review. Specific exam guidelines will be reviewed before the first exam.

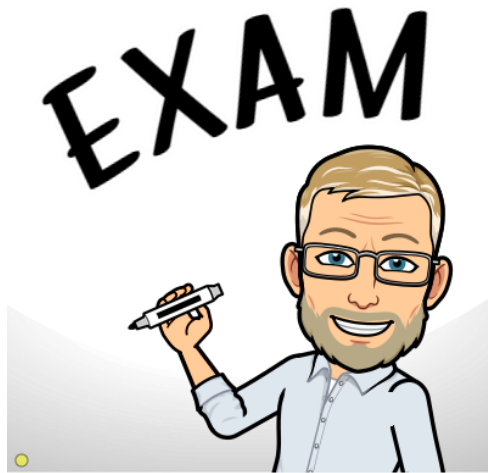
An optional cumulative Final exam will be offered at the end of the semester. Students that are failing the course after Exam 4 are encouraged to take this exam. This may replace your lowest exam score.

Keep in mind that make-up exams will not be given. Be on time.

Each exam will include questions related to the biology concepts and the labs allocated for that unit. Most exam items focus on the key conceptual issues and require reasoning and application, not just factual memorization.

If for some reason you miss an exam, contact Dr. B as soon as possible. Also, questions regarding missing exam scores should be directed to Dr. B.

Excused absences may be given for medical, religious, or sponsored university activities that make it impossible for you to attend an exam. Excused absences are not given for recreational travel, wedding attendance, or other such events. Documentation is required before the exam or promptly thereafter in case of medical emergencies. If you have an excused absence from an exam, your grade will be calculated based on average score on your other exams.



B. LABORATORY

The primary purpose of the labs is to help you understand pertinent biological concepts and develop scientific reasoning skills. More specifically, the labs will focus on the reasoning skills used to generate arguments and test

alternative hypotheses and theories using circumstantial, correlational, and experimental evidence.

The majority of the labs will be online. Further information about how to access the labs can be found in each week's lab folder on Canvas. The online labs are provided by Labster Labs. All lab questions must be directed to your Graduate TA or the lab coordinator.

We recommend that you purchase the access code to Labster Labs software directly from Labster Labs using the link provided on Canvas. The labs for this course will be completed entirely online after you register for your account. Please use Google Chrome as your Internet browser when completing the labs, as other browsers may sometimes experience technical issues.

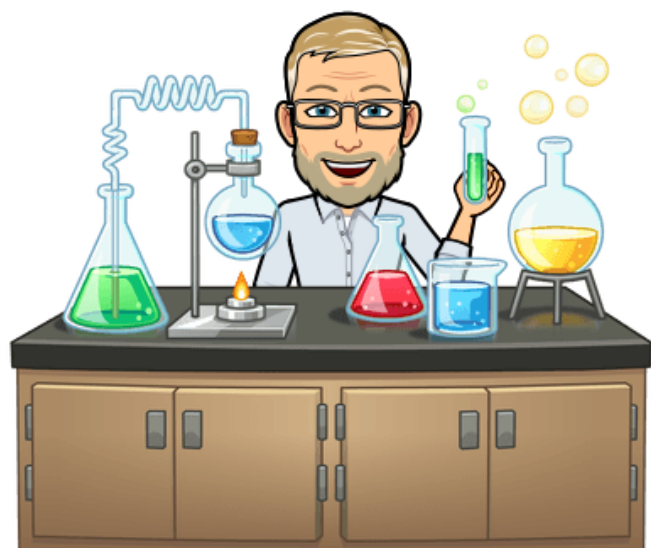
All lab assignments are due by 11:59 pm on Sundays AZ time (except when indicated). Most lab questions will be completed via the Canvas site although some will be completed via the Labster Labs systems. Please Note: Incorrect answers to the questions within the Labster Lab Simulations are penalized. If your first answer attempt to a question is incorrect you will have another attempt but not for full credit.

Please check the schedule on Canvas for specific due dates. All due dates and times are Arizona time.

Labs are required, and if you miss the deadline for turning in assignments for more than two labs, you will automatically receive a course failure grade of "E" for the entire course.

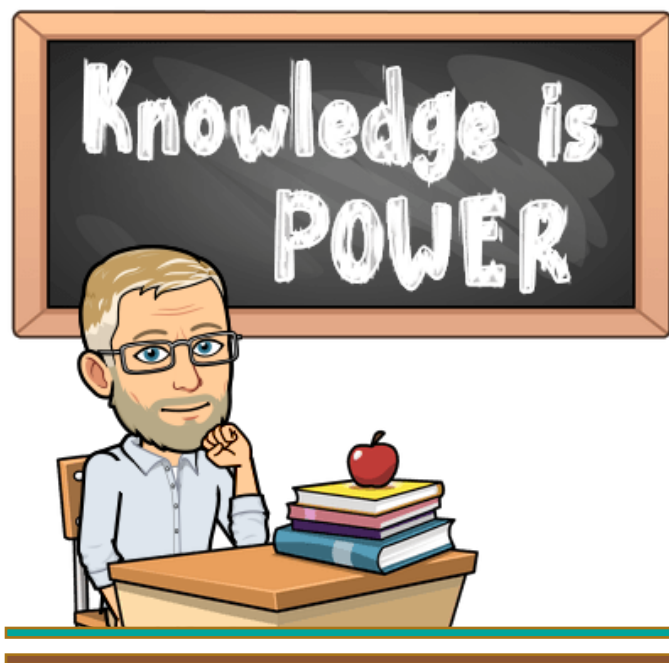
Missing a lab or submitting late lab work is NOT excused due to computer issues/internet issues on personal computers or personal Internet services. Save your Lab Work Book often as you work. We highly recommend you use a hard-

wired PC when answering the lab questions on the Canvas site. For questions about how to create your lab accounts, complete the labs, or solve technical issues, please take a look at the student instruction manual/FAQ links provided on the Lab Software page on Canvas since many of the most common questions are answered there. If you are still unable to find an answer to your question, contact your Lab TA.



CLASS MEETINGS

- A. Attendance is mandatory in all ASU Sync sessions (lectures and recitations). If you miss four or more classes you will lose 25 points or all your extra credit points, whichever is greater. Remember, there are no make-ups of missed “clicker” quizzes or extra credit assignments given during ACEs.
- B. Some classes we will have review sessions where we will review CogBooks quiz results from the previous week and discuss the lab for that week. In-class clicker questions about the assigned material for that week will be done during class (check the schedule on Canvas).
- C. During the ACE sessions you will work in small break out Zoom rooms to discuss the application of the weekly concepts to current topics. Group and individual assignments during the class along with clicker responses will be graded each week.
 - a. During the ACE classes, you often will be asked to respond to questions using the iClicker app on your phone/tablet/computer. It is your responsibility to keep your iClicker App up to date (e.g., device charged).
 - b. If iClicker problems arise, please immediately contact clickers@asu.edu.
- D. After the second exam you will be reassigned to a different break out room group.
- E. It is the student’s responsibility to check grades (including iClicker scores) in Canvas. There will be a one-week grace period to discuss discrepancy of grades. After the 1-week grace period all grades will be final.
- F. See Canvas for class schedule and details of lecture, lab, recitations, exams and reading assignments.



ACADEMIC INTEGRITY

- A. It happens occasionally that students think they can bypass the rules to achieve better academic scores. This is obviously totally unacceptable. Academic dishonesty on any assignment will be awarded a grade of zero and reported. The ASU Student Academic Integrity Policy manual defines Plagiarism as “using another's words, ideas, materials or work without properly acknowledging and documenting the source. Students are responsible for knowing the rules governing the use of another's work or materials and for acknowledging and documenting the source appropriately.” You can find more information on academic integrity [here](#).
- B. You are strongly encouraged to work in groups safely following social distancing when studying. Some assignments will be graded as a group. However, some assignments and reports will be independent work.
- C. Students who submit identical or reworded papers/assignments will receive a grade of zero for the assignment and will be

deducted 50 points from their final grade (first offense).

- D. If you use published material as a source, you must clearly cite that source. Plagiarism (using another's words as your own) and cheating are not tolerated. Violators will receive an “XE” for the course and a referral to the university judiciaries. Do not do it.
- E. If you have any questions about how to cite sources, please double check with the Learning Resource Center or Writing Centers.
- F. Responding to questions with the iClicker of an absent student constitutes cheating.
- G. Students may **NOT** sell notes or other course materials taken during the conduct of the course. Doing so will result in similar penalties as other forms of academic dishonesty.

BE NICE



DIVERSITY and INCLUSION STATEMENT

Dr. Bang, the TAs, and staff are committed to encouraging diversity, inclusivity, and equity, and we urge our students to practice the same habits. Since this course is a collaborative learning environment featuring a diverse group of people, we encourage all of you to engage

thoughtfully and professionally, be generous in listening to each other, and cherish the diversity of thoughts and ideas. We hope to create a learning environment where all feel welcomed, respected, supported, valued, and therefore, able to participate fully. Please feel free to let your course instructors know if any circumstances arise that affect your ability to participate.

HARASSMENT AND PREVENTION OF SEXUAL VIOLENCE

We do not tolerate any form of harassment or violence on campus or elsewhere. An abundance of resources for medical, counseling, reporting, safety, and other supporting instances are available here <https://sexualviolenceprevention.asu.edu/resources>. You can also contact your instructor with questions on where to get help.

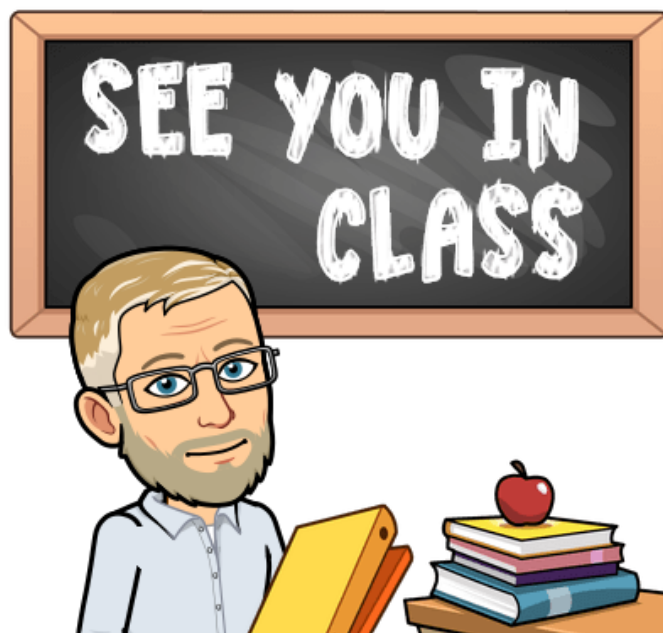
Title IX is a federal law that provides that no person be excluded on the basis of sex from participation in, be denied benefits of, or be subjected to discrimination under any education program or activity. Both Title IX and university policy make clear that sexual violence and harassment based on sex is prohibited. An individual who believes they have been subjected to sexual violence or harassed on the basis of sex can seek support, including counseling and academic support, from the university. If you or someone you know has been harassed on the basis of sex or sexually assaulted, you can find information and resources at <https://sexualviolenceprevention.asu.edu/faqs>.

As a mandated reporter, I am obligated to report any information I become aware of regarding alleged acts of sexual discrimination, including sexual violence and dating violence.

HOW TO EARN AN "A"

Here are some specific suggestions on how to become an active and reflective learner:

- Attend all ASU Sync classes and write key points of the class in your BIO 100 journal, it will help you when studying for the exam.
- Start working on your assignments ahead of time, check schedule for deadlines.
- When possible, ask questions and participate in discussions.
- Figure out the instructor's purpose for each assignment. If uncertain, ask the instructor.
- While reading and studying, sort out the important from the unimportant information.
- Generate and answer questions as you read your text and notes, and try to predict what questions are likely to be on exams.
- Make connections among the lectures, the labs, and the text.
- Review returned assignments to discover and correct mistakes.
- React to, evaluate, and attempt to apply what you have learned to other courses and to everyday life.
- Form a study group with other students to share experiences, ideas, and questions following safe social distancing guidelines.
- Get enough sleep, especially the night before an exam.



SYLLABUS DISCLAIMER

The syllabus is a statement of intent and serves as an implicit agreement between the instructor and the student. Every effort will be made to avoid changing the course schedule but the possibility exists that unforeseen events will make syllabus changes necessary. Remember to check your ASU email and the course site often.

STUDENT PRIVACY AND DATA PROTECTION

ASU has a number of security plans in place to protect student data. However, online course security is always a concern. Password management is your responsibility, and we strongly advise you to review the [policies and resources](#) to keep your passwords and student data secure.

- Do not share your password with anyone
 - Change your password often, and consider using a passphrase
 - Only email a professor with your ASU email. Personal emails may not be responded to by the TAs or professors.
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