

Course Information

Semester & Year: **Spring 2023**

Course ID & Section #: **BIOL 1, E5669**

Instructor's name: **Karen Reiss**

Course units: **4.0**

Instructor Contact Information

SCI 216B

Office hours: **TBA and by appointment in person or via Zoom**

Email address: **karen-reiss@redwoods.edu**

Catalog Description

An introductory course in life science dealing with basic biological concepts including molecular and cell biology, metabolism, heredity, evolution, ecology, natural history, and biodiversity.

IMPORTANT:

- This course is GE for **non-science majors** and a prerequisite for all the **pre-nursing/health occupation** courses.
- There are **OTHER courses that can also satisfy your life science GE** which are less lab intensive and more field-oriented (e.g., BIOL 20 – Natural History, BIOL 15 – Marine Biology, ENVSC 10 – Intro to Environmental Science).
- This course is **NOT FOR LIFE SCIENCE MAJORS** (e.g., biology, zoology, botany, wildlife, fisheries, etc.).

Course Student Learning Outcomes

1. Apply the scientific method to critically evaluate observable phenomena.
2. Describe attributes of life and explain how cells fulfill these characteristics.
3. Relate the mechanisms of evolutionary change to the production of biological diversity.

Required Materials

OpenStax [Concepts of Biology](https://openstax.org/details/books/concepts-biology)

free for download; can get hardcopy for minimal cost from website

<https://openstax.org/details/books/concepts-biology>

Accessibility

College of the Redwoods is committed to making reasonable accommodations for qualified students with disabilities. If you have a disability or believe you might benefit from disability-related services and accommodations, please contact your instructor or [Disability Services and Programs for Students](#) (DSPS). Students may make requests for alternative media by contacting DSPS, in Eureka: 707-476-4280, student services building, 1st floor.

Evaluation & Grading Policy

Lab Assignments	<i>hand in every Tuesday in lecture</i>	15 x 20	300
Online Lecture Quizzes	<i>complete by T 10 :00AM</i>	15 x 10	150
Homeworks	<i>scattered throughout semester</i>	5 x 20	100
Preparation and Participation	<i>be there, aware, and care</i>	50	50
Midterm Exams	<i>not explicitly cumulative</i>	2 X 100	200
Final Exam	<i>50% comprehensive</i>	200	200

1000 total points possible

Grading Scale:

< 60%	60-69%	70-76%	77-79%	80-82%	83-86%	87-89%	90-92%	93-100%
F	D	C	C+	B-	B	B+	A-	A

Late Work Policy

Your completed labs are due Tuesday in lecture; your online quiz of the preceding week's material must also be done by then. NO LATE WORK WILL BE ACCEPTED unless you have made previous arrangements with me.

Exam Make-Up Policy

- **There will typically be a multi-day window during which online quizzes are available.** It is up to you to find a good time within this window that doesn't conflict with other aspects of your life.
- **You MUST have a serious and verifiable excuse to miss a lecture exam.** Ideally, you will contact me before the exam begins.
 - **Contact me** by leaving a message on email or phone voicemail.
 - **Serious excuses include** emergency room visits, quarantine due to contagious infectious disease, and deaths in the family.
 - **Verifiable means** you have a doctor's note, a police report, or some other form of evidence.

Academic Dishonesty *Truth matters! Cheating sucks!*

In the academic community, the high value placed on truth implies a corresponding intolerance of scholastic dishonesty. Academic dishonesty of any kind will result in an instant F on the quiz/exam/assignment and a memo to the Dean of Math and Science and to the Chief Student Services Officer that will become part of your permanent record. Disciplinary action will be taken if they already have your name on "the list" of past offenders. In other words, you get one warning. The Student Code of Conduct ([AP 5500](#)) is worth reading.

A couple of common pitfalls:

- Many students don't realize that complicity...allowing or encouraging cheating...is as bad as being the one doing the cheating.
- Many students don't understand that using a Wikipedia answer...even if you cite Wikipedia...is plagiarism.
- Many students don't realize that we professors KNOW that companies like Chegg will allow you to pay for access to answers to questions in popular textbooks like your lab manual. Not only is this cheating, but their answers typically suck!

It's far better to earn an F with integrity than pass the class through cheating!

Important Admissions and Records Dates S2023

- *Last day to add a class: 01/20/23*
- *Last day to drop without a W and receive a refund: 01/27/23*
- *Census date: 01/30/23 or 20% into class duration*
- *Last day to petition to file P/NP option: 02/10/23*
- *Last day to petition to graduate or apply for certificate: 03/02/23*
- *Last day for student-initiated W (no refund): 03/31/23*
- *Last day for faculty-initiated W (no refund): 03/31/23*
- *Grades available for transcript release: approximately 05/26/23*

Students who have experienced extenuating circumstances can complete & submit the **Excused Withdrawal Petition** to request an Excused Withdrawal (EW) grade instead of the current Withdrawal (W) or non-passing (D, F & NP) grades. The EW Petition is available from the Admissions and Records Forms Webpage. Supporting documentation is required.

Disruptive Behavior

Student behavior or speech that disrupts the instructional setting will not be tolerated. Disruptive conduct may include, but is not limited to: unwarranted interruptions; failure to adhere to instructor's directions; vulgar or obscene language; slurs or other forms of intimidation; and physically or verbally abusive behavior. In such cases where the instructor determines that a student has disrupted the educational process, a disruptive student may be temporarily removed from class. In addition, the student may be reported to the Chief Student Services Officer or designee. The Student Code of Conduct ([AP 5500](#)) is available on the College of the Redwoods website. Additional information about the rights and responsibilities of students, Board policies, and administrative procedures is located in the [College Catalog](#) and on the [College of the Redwoods website](#).

Inclusive Language in the Classroom

College of the Redwoods aspires to create a learning environment in which all people feel comfortable in contributing their perspectives to classroom discussions. It therefore encourages instructors and students to use language that is inclusive and respectful.

Canvas Information

Canvas is the Learning Management System used to support classes at CR. Even face-to-face classes use Canvas to organize course materials, make resources available, and communicate with students,. It is imperative that you can access and comfortably navigate Canvas.

- Log into Canvas at [My CR Portal](#)
- For help logging in to Canvas, visit [My CR Portal](#).
- For help with Canvas once you're logged in, click on the Help icon on the left menu.
- For tech help, email its@redwoods.edu or call 707-476-4160
- Canvas online orientation workshop: [Canvas Student Orientation Course \(instructure.com\)](#)

Setting Your Preferred Name in Canvas

Students can have an alternate first name and pronouns appear in Canvas. Contact [Admissions & Records](#) to request a change to your preferred first name and pronoun. Your Preferred Name will only be listed in Canvas. It does not change your legal name in our records. See the [Student Information Update form](#).

Schedule

General Biology S2023

This schedule is tentative and subject to change.

Week	Lecture (T/Th 10:05 SCI 210)	Lab (Th 12:30 SCI 108)	Reading
1	What Is Life? What is Science?	Lab 1: Data Analysis and Presentation	1
2	Chemistry of Life Biomolecules	Lab 2: Chemistry of Life	2
3	The Cell Cell Membranes	Lab 3: Scopes and Cells	3
4	What Is Energy? Energy in Ecological Systems	Lab 4: Diffusion and Osmosis	4.1 20
5	Energy in Cells: Cellular Respiration Energy in Cells: Photosynthesis	Lab 5: Cellular Respiration	4 5
6	Exam 1 DNA Structure and Replication	Lab 6: Mitosis	9 through 9.2
7	DNA Transcription and Translation Mitosis	Lab 7: Meiosis	9.3 to 9.5 6
8	Meiosis Mendelian Genetics and Beyond Mendel	Lab 8: Mendelian Genetics	7 8
9	What Does Evolution Look Like? What Causes Evolution?	Lab 9: Human Inheritance	11.1, 11.3 11.2, 11.5
10	Microevolution: Sources of Genetic Variation Biotechnology	Lab 10: DNA	10
11	Exam 2 Macroevolution: Origins & Diversification	Lab 11: Diversity of Life	11.4, 12
12	Macroevolution: Extinction Microbes	Lab 12: Evolution and Natural Selection	13 through 13.3
13	Fungi Plants	Lab 13: Classification and Tree Thinking	13.4 14
14	Animals Humans in Context	Lab 14: Biodiversity Science	15 16
15	Population Ecology Community Ecology	Lab 15: Ecology of the CR Campus	19 21
Finals Week	Final Exam 50% last 4 weeks; 50 % comprehensive!!		