

# Syllabus for BIOL1 - *General Biology* - F2024

## Course Information

Semester & Year:	<b>Fall 2024</b>
Course ID:	<b>BIOL 1</b>
Lecture:	<b>T/Th 2:50-4:15pm, HUM 112</b>
Lab:	<b>F 8:20-11:30am OR F 11:40-2:50pm, SCI 108</b>
Course units:	<b>4.0</b>

## Instructor Contact Information

Instructors:	<b>K. Reiss, J. Patmore</b>
Dr. Reiss' Office:	<b>SCI 216B, SCI 108</b>
Office hours:	<b>TBA and by appointment</b>
Email address:	<a href="mailto:karen-reiss@redwoods.edu">karen-reiss@redwoods.edu</a> ; <a href="mailto:jaclyn-patmore@redwoods.edu">jaclyn-patmore@redwoods.edu</a>

## 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 **NOT FOR LIFE SCIENCE MAJORS** (e.g., biology, zoology, botany, wildlife, fisheries, etc.).
- This course is one of several GE options for **NON-SCIENCE MAJORS** which also include **BIOL 20** – Natural History, **BIOL 15** – Marine Biology and **ENVSC 10** – Intro to Environmental Science.
- This course is a prerequisite for all the **PRE-R.N. (REGISTERED-NURSING)** courses.

## 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 at low cost

Lab Handouts #1-14

must be downloaded from Canvas and printed

## Educational Accessibility & Support

College of the Redwoods is committed to providing reasonable accommodations for qualified students who could benefit from additional educational support and services. You may qualify if you have a physical, mental, sensory, or intellectual condition which causes you to struggle academically, including but not limited to:

- Mental health conditions such as depression, anxiety, PTSD, bipolar disorder, and ADHD
- Common ailments such as arthritis, asthma, diabetes, autoimmune disorders, and diseases
- Temporary impairments such as a broken bone, recovery from significant surgery, or a pregnancy-related disability
- A learning disability (e.g., dyslexia, reading comprehension), intellectual disability, autism, or acquired brain injury
- Vision, hearing, or mobility challenges

Available services include extended test time, quiet testing environments, tutoring, counseling and advising, alternate formats of materials (e.g., audio books, E-texts), assistive technology, on-campus transportation, and more. If you believe you might benefit from disability- or health-related services and accommodations, please contact [Disability Services and Programs for Students \(DSPS\)](#). If you are unsure whether you qualify, please contact DSPS for a consultation: [dsps@redwoods.edu](mailto:dsps@redwoods.edu), Eureka: 707-476-4280, Student Services Building, 1st floor

## Student Support Services

Good information and clear communication about your needs will help you be successful. Please let your instructor know about any specific challenges or technology limitations that might affect your participation in class. College of the Redwoods wants every student to be successful.

The following online resources are available to support your success as a student:

- [CR-Online](#) (Comprehensive information for online students)
- [Library Articles & Databases](#)
- [Canvas help and tutorials](#)
- [Online Student Handbook](#)
- [Online Tutoring Resources](#)

## Community College Student Health and Wellness

If you are in distress or are with someone at risk right now, call the National Suicide Prevention Lifeline at 1-800-273-TALK (8255) or TEXT 741-741

### Timely Care

When you're feeling under the weather physically or distressed mentally, you can find the help you're looking for in just a few quick taps. Students can schedule an appointment anytime via phone, video, and chat. [Visit TimelyCARE here](#)

### Mental Health Counseling

Students should text, email, or fax Shawna Bell directly for scheduling and/or services.

Contact info

Text: 707-496-2856

Email: [shawnabmft@gmail.com](mailto:shawnabmft@gmail.com)

Fax: 707-237-2318 (voicemail can be left via fax)

### Wellness Central

Resources, tools, and trainings regarding health, mental health, wellness, basic needs and more designed for California community college students, faculty and staff are available on the California Community Colleges [Wellness Central](#).

## Counseling

[Counseling & Advising](#) can assist students in need of academic advising and professional counseling services. Visit the Welcome Center in the lower level of the student services building Monday –Friday 9am – 4pm (during the semester, summer hours may vary).

## Basic Needs Center

[The Basic Needs Center](#) provides for the health and safety of students by providing access to healthy food, financial resources, and referrals to safe and secure housing. Students can submit a request for services and information [here](#).

Contact info

Phone: 707-476-4153

Email: [the-grove@redwoods.edu](mailto:the-grove@redwoods.edu)

## Learning Resource Center

Learning Resource Center includes the following resources for students

- [Library Services](#) to promote information literacy and provide organized information resources.
- [Multicultural & Diversity Center](#)
- [Academic Support Center](#) – offers tutoring and test proctoring for CR students.
- [Student Tech Help](#) – provides students with assistance around a variety of tech problems.

## EOPS

[Extended Opportunity Programs & Services \(EOPS\)](#) provides services to eligible income disadvantaged students including: textbook awards, grants, career academic and personal counseling, transportation assistance, tutoring, laptop, calculator and textbook loans, priority registration, graduation cap and gown, workshops, and more!

## TRiO Student Success Program

The TRiO Student Support Services Program provides eligible students with a variety of services including academic advising, career assessments, assistance with transfer, and peer mentoring. Students can apply for the program in [Eureka](#) or in [Del Norte](#).

## Veterans Resource Center

The [Veteran's Resource Center](#) supports and facilitates academic success for Active Duty Military, Veterans and Dependents attending CR through relational advising, mentorship, transitional assistance, and coordination of military and Veteran-specific resources.

## CaWORKS

CaWORKs – California Work Opportunity & Responsibility to Kids (CaWORKs). Provides supportive services to student parents with children under the age of 18, who are receiving cash assistance (TANF **benefits**), to become self-sufficient. Services include: transportation assistance, basic student supplies, tutoring, priority registration, laptop and calculator loans, career, academic, and personal counseling, and more!

## Evaluation, Grading, and Classroom Policies

Lab Assignments	<i>due in the following week's lab</i>	14 x 20 (-1 lowest score)	260
Online Quizzes	<i>complete by Sunday midnight</i>	15 x 10 (-1 lowest scores)	140
Occasional HW	<i>due dates and points vary</i>		50
Participation	<i>be there, be aware, and care</i>	10 x 15	150
Midterm Exams	<i>not explicitly cumulative</i>	2 X 100	200
Final Exam	<i>50% comprehensive</i>	200	200

Approximately 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

**Attendance:** You are expected to attend all lectures and labs and will lose 3 points for each missed lecture and 4 points for a missed lab. Of course, life happens. Cars don't start, you get sick, etc., so communicate these events with your instructor ASAP and make a plan to makeup the lost work. If you do so promptly and earnestly you will not lose the points.

**Late Work:** Your completed labs are due in lab the week following the actual exercise. Your online quiz of the preceding week's material is due Sunday night at midnight. NO LATE WORK WILL BE ACCEPTED unless you have made prior arrangements with your instructor. Labs and quizzes combined are worth as much as your exams so timely attention to reviewing material and conscientiously completing your work will really pay off.

**Exam Make-Ups:** 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. Regarding AI, the policy of this class is that AI cannot be used at any point in the completion of class assignments unless you have been specifically instructed to do so in the written assignment instructions. Any or all of your assignment submissions may be screened by AI detection software, but the real penalty for AI misuse is that you will miss out on an opportunity to learn.

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 or ChatGPT-type answer...even if cited...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 Administrative Dates Fall 2024

Date	To Remember
August 23	Last day to register for classes (day before the first class meeting)
August 24	Classes begin
August 30	Last day to add a class
September 2	Labor Day Holiday (district wide closure)
September 6	Last Day to Drop & Receive a Refund
September 8	Last Day to Drop w/out a "W"
September 9	Census Date (20% of class)
October 31	Last Day to Petition to Graduate & Petition for Certificate
November 1	Last Day for Student/Faculty Withdrawal
November 11	Veteran's Day Holiday (District Wide Closure)
November 25-26	Fall Break (No Classes)
November 27-29	Thanksgiving Holiday (District Wide Closure)
December 14-20	Final Examinations
December 20	Last Day to File P/NP Option
December 20	Semester Ends
December 27	Grades Due
January 3	Grades Available for Transcript Release

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](mailto: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](#).

## Emergency Procedures / Everbridge

College of the Redwoods has implemented an emergency alert system called Everbridge. In the event of an emergency on campus you will receive an alert through your personal email and/or phones. Registration is not necessary in order to receive emergency alerts. Check to make sure your contact information is up-to-date by logging into [WebAdvisor](#) and selecting 'Students' then 'Academic Profile' then 'Current Information Update.'

Please contact Public Safety at 707-476-4112 or [security@redwoods.edu](mailto:security@redwoods.edu) if you have any questions. For more information see the [Redwoods Public Safety](#).

In an emergency that requires an evacuation of the building anywhere in the District:

- Be aware of all marked exits from your area and building
- Once outside, move to the nearest evacuation point outside your building
- Keep streets and walkways clear for emergency vehicles and personnel

Do not leave campus, unless it has been deemed safe by the campus authorities.

To learn more about campus-specific Emergency Procedures, click on a title bar below, or click the down arrow to expand them all.

## Schedule

# General Biology F2024

This schedule is tentative and subject to change.

Week Monday Date	Lecture (T/Th 2:50-4:15pm, HUM 112)	Lab (F 8:20-11:30am OR F 11:40-2:50pm, SCI 108)	Reading
<b>1</b> Aug 26	What Is Life and Where Did It Come From? What is Science?	Lab 1: Measurement & Data Analysis	1, Appendix C
<b>2</b> Sept 2	Chemistry of Life Biomolecules	Lab 2: Chemistry of Life	2, Appendix A
<b>3</b> Sept 9	The Cell Cell Membranes	Lab 3: Scopes and Cells	3
<b>4</b> Sept 16	What Is Energy? Energy in Cells: Cellular Respiration	Lab 4: Diffusion and Osmosis	4
<b>5</b> Sept 23	Energy in Cells: Photosynthesis <b>REVIEW</b>	Lab 5: Cellular Respiration	5
<b>6</b> Sept 30	<b>Exam 1</b> DNA Structure and Replication	Lab 6: DNA	9.1-9.2
<b>7</b> Oct 7	DNA Transcription and Translation Mitosis and Meiosis	Lab 7: Mitosis and Meiosis	9.3-9.5 6,7
<b>8</b> Oct 14	Mendelian Genetics Non-Mendelian Genetics	Lab 8: Mendelian Genetics	8
<b>9</b> Oct 21	What Evolution Looks Like Mechanisms of Evolution	Lab 9: Natural Selection	11.1, 11.3 11.2
<b>10</b> Oct 28	How Allele Frequencies Change <b>REVIEW</b>	Lab 10: Non-Mendelian Genetics	11.2
<b>11</b> Nov 4	<b>Exam 2</b> Systematics	Lab 11: Systematics	12
<b>12</b> Nov 11	History of Life on Earth Microbes	Lab 12: Microbes and Epidemiology	Appendix B, 13.1-13.3,
<b>13</b> Nov 18	Fungi Plants	Lab 13: Eukaryote Diversity	13.4 14
<b>Thanksgiving – November 25-29</b>			
<b>14</b> Dec 2	Animal Bodies Animal Diversity - Invertebrates	Lab 14: Animal Bodies	16 15.1-15.5
<b>15</b> Dec 9	Animal Diversity - Vertebrates Ecology	Field Trip!!	15.6 19
<b>Finals Week</b> Dec 16-20	<b>Final Exam</b> 50% last 5 weeks lecture; 50 % comprehensive		