

## Course Information

Semester & Year: Spring 2024

Course ID & Section #: BIOL-1-V5833

Instructor's name: Linnea Anderson

Day/Time of required meetings: weekly Canvas check-ins

Number of proctored exams: 0 (2 Unproctored)

Course units: 4

## Instructor Contact Information

Office hours: by request (Zoom)

Phone number: 707-382-0481

Email address: linnea-anderson@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. *Note: This course is designed for non-science majors and nursing/health occupation students. Not open to students who have completed or who are currently enrolled in BIOL-3.*

## Course Student Learning Outcomes

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

## Prerequisites/co-requisites/ recommended preparation

**Advisory:** ENGL102 - Developing Reading and Writing or ENGL150 - Precollegiate Reading and Writing

## 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: [dspd@redwoods.edu](mailto:dspd@redwoods.edu).

- Eureka: 707-476-4280, Student Services Building, 1st floor
- Del Norte: 707-465-2324, Main Building, near the library
- Klamath-Trinity: 707-476-4280

## 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](#)

To learn more about the resources available to you, click on a title bar below, or click the down arrow to expand them all.

Klamath-Trinity students can contact the CR KT Office for specific information about student support services at 530-625-4821

## 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: [shawna@redwoods.edu](mailto:shawna@redwoods.edu)

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 \(EOPS\)](#)[Links to an external site.](#) 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.

## CalWORKS

CalWORKs – California Work Opportunity & Responsibility to Kids (CalWORKs). 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 Policy

### 1. Exams (35%)

There will be **two midterm exams**. Each midterm will cover half of the course material. If you need accommodations according to the Americans with Disabilities Act, please let me know 2 weeks prior to any exam. There are **NO** make-up exams of any kind, unless you have a verifiable and unavoidable circumstance.

### 2. Homework Quizzes (15%)

Weekly “homework” in the form of open note/book quizzes will be given weekly via **Canvas**. These quizzes will cover lecture material and reading assignments from *Concepts of Biology* for the week. **No late quizzes will be accepted.**

### 3. Lab Reports (25%)

Each week you’ll complete a lab with experimental data, calculations, and questions. **NO late labs will be accepted.**

### 4. Interactive Assignments (15%)

Each week you’ll be tasked to complete an interactive assignment. This will include interactive websites, handouts, and/or hands-on tasks. These will get you creatively thinking of the lecture topic for the week. **No late Assignments accepted.**

### 5. Discussions (10%)

As an online course, you’ll be required to check in regularly to discuss the material. You will be required to participate in discussions weekly via Canvas. There will be a discussion to talk about lecture material with opportunities to earn points for just asking questions. **Missed discussions cannot be made up.**

The purpose of grading is to get an idea of how well you are mastering the material in this course. They help you pinpoint troublesome topics that might trip you up in future courses. There are a billion grades in the gradebook, which means you have a billion opportunities to earn points and improve your grade. Everything in the gradebook is driven by your performance on the assessments in the course...and nothing else. In other words, it doesn’t matter how much I love you...the grades you **EARN** on assignments will translate into the grade you **EARN** in the class.

**I will use the following scale to determine the letter grade you earn in my class:**

A = 100.0 – 93.00%	B+ = 89.99 – 87.0%	C+ = 79.99 – 77.0%	D = 69.99 – 60.0%
A- = 92.99 – 90.0%	B = 86.99 – 83.0%	C = 76.99 – 70.0%	F = < 59.99%
	B- = 82.99 – 80.0%		

I do NOT bump grades higher than the exact percentage you earn. This means that there is no rounding up. Since grade-boundaries are by definition, arbitrary, there is no good rationale for letting the boundaries slide; there will always be a cut-off and there will always be someone who is close, but not quite there. Be grateful for the **BILLION** opportunities you have to earn points as outlined in this syllabus. The grade reported in Canvas is the grade you will earn in the course.

## Spring 2024 Dates

January 12	Last day to register for classes (day before the first class meeting)
January 13	Classes begin
January 15	Martin Luther King, Jr.'s Birthday Holiday (District-wide closure)
January 19	Last day to add a class
January 26	Last day to drop without a "W" and receive a refund
January 29	Census Date (20% of class)
February 16	Lincoln's Birthday Holiday (District-wide closure)
February 19	President's Day Holiday (District-wide closure)
March 7	Last day to petition to graduate
March 29	Last day for student initiated withdrawal (62.5% of class)
March 29	Last day for faculty initiated withdrawal (62.5% of class)
March 11-16	Spring break (no classes)
May 4-10	Final Examinations
May 10	Last day to file for P/NP Option
May 10	Semester Ends
May 17	Grades due
May 24	Grades available

## Academic dishonesty

In the academic community, the high value placed on truth implies a corresponding intolerance of scholastic dishonesty. In cases involving academic dishonesty, determination of the grade and of the student's status in the course is left primarily to the discretion of the faculty member. In such cases, where the instructor determines that a student has demonstrated academic dishonesty, the student may receive a failing grade for the assignment and/or exam and 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](#).

## AI Use Class Policy

Recent advancements in generative artificial intelligence (AI) have made large language models such as ChatGPT and Google's Bard widely available. However, overuse of these tools in this class can undermine your learning and curtail the development of your critical and creative thinking skills. In addition, AI outputs are often unreliable and frequently subject to bias. For these reasons, the policy of this class is that AI cannot be used at any point in the completion of class assignments, including discussion posts. Any or all of your assignment submissions and discussion posts 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.

## 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

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 have the ability to have an alternate first name and pronouns to 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. This 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.

## Del Norte Campus Emergency Procedures

Please review the [Crescent City campus emergency map](#) for campus evacuation sites, including the closest site to this classroom (posted by the exit of each room). For more information, see the [Redwoods Public Safety](#).

## Klamath-Trinity Campus Emergency Procedures

Please review the responsibilities of, and procedures used by, the College of the Redwoods, Klamath-Trinity Instructional Site (KTIS) to communicate to faculty, staff, students and the general public during an emergency. It is the responsibility of College of the Redwoods, Klamath-Trinity Instructional Site (KTIS) to protect life and property from the effects of emergency situations within its own jurisdiction.

In the event of an emergency, communication shall be the responsibility of the district employees on scene:

1. Dial 911, to notify local agency support such as law enforcement or fire services.
2. If safe to do so, notify key administrators, departments, and personnel.
3. If safe to do so, personnel shall relay threat information, warnings, to ensure the school community is notified.
4. Contact 530-625-4821 to notify of situation.
5. Contact Hoopa Tribal Education Administration office 530-625-4413
6. Notify Public Safety 707-476-4111.

In the even of an emergency, the responsible district employee on the scene will:

1. Follow established procedures for the specific emergency as outlined in the College of the Redwoods Emergency Procedure Booklet.
2. Lock all doors and turn off lights if in lockdown due to an active shooter or similar emergency.
3. Close all window curtains.
4. Get all inside to safe location Kitchen area is best internal location.
5. If a police officer or higher official arrives, they will assume command.
6. Wait until notice of all is clear before unlocking doors.
7. If safe to do so, move to the nearest evacuation point outside building (Pooky's Park), directly behind the Hoopa Tribal Education Building.
8. Do not leave site, unless it has been deemed safe by the person in command. Student Support Services (required for online classes)

## Spring Schedule (Subject to Change)

Week	Date	Lecture Topic	Textbook Chapter <i>OpenStax Concepts of Biology</i>	Lab
1	Jan 15th to	Introduction to Science	Ch 1: Introduction to Biology (1.2)	Lab 1: Doing Science
	Jan 21st	Introduction to Biology	Ch 1: Introduction to Biology (1.1)	
2	Jan 22nd to	Chemistry of Life	Ch 2: Chemistry of Life (2.1-2.2)	Lab 2: Chemistry of Life
	Jan 28th	Biological Molecules	Ch 2: Chemistry of Life (2.3)	
3	Jan 29th to	Cell Structure and Function	Ch 3: Cell Structure and Function (3.1-3.3)	Lab 3: Scopes and Cells
	Feb 4th	Membrane Transport	Ch 3: Cell Structure and Function (3.4-3.6)	
4	Feb 5th to	Energy/Enzymes	Ch 4: How Cells Obtain Energy (4.1)	Lab 4: Diffusion and Osmosis
	Feb 11th	Cellular Respiration	Ch 4: How Cells Obtain Energy (4.2-4.5)	
5	Feb 12th to	Photosynthesis	Ch 5: Photosynthesis	Lab 5: Enzymes
	Feb 18th	Cell Cycle/Mitosis	Ch 6: Reproduction at the Cellular Level	
6	Feb 19th to	DNA Structure/Replication	Ch 9: Molecular Biology (9.1-9.2)	Lab 6: Fermentation
	Feb 25th	Transcription/Translation	Ch 9: Molecular Biology (9.3-9.5)	
7	Feb 26th to Mar 3rd	Review	Review Chapters 1-6, 9	Lab 7: DNA
8	Mar 4th to Mar 10th	<b>Exam 1</b>	<b>Exam 1</b>	Lab 8: Mitosis
<b>March 11th-17th</b>		<b>Spring Break - No Classes</b>		
9	Mar 18th to Mar 24th	Meiosis/Sexual Reproduction	Ch 7: The Cellular Basis of Inheritance and Ch 18	Lab 9: Meiosis & Heredity
10	Mar 25th to	Mendelian Genetics	Ch 8: Patterns of Inheritance (8.1)	Lab 10: Build a Terrarium
	Mar 31st	Laws of Inheritance	Ch 8: Patterns of Inheritance (8.2)	
11	Apr 1st to	Mechanisms of Evolution	Ch 11: Evolution and Its Processes (11.1-11.2)	Lab 11: Human Heredity
	Apr 7th	Evidence of Evolution	Ch 11: Evolution and Its Processes (11.3-11.5)	
12	Apr 8th to	Diversity of Life	Ch 12: Diversity of Life	Lab 12: Classification & Tree Thinking
	Apr 14th	Diversity of Microbes	Ch 13: Diversity of Microbes, Fungi and Protists	
13	Apr 15th to	Diversity of Protists and Fungi	Ch 13: Diversity of Microbes, Fungi and Protists	Lab 13: Natural Selection
	Apr 21st	Diversity Plants	Ch 14: Diversity of Plants	
14	Apr 22nd to	Diversity of Animals	Ch 15: Diversity of Animals	Lab 14: Biodiversity Field Trip
	Apr 28th	Ecology	Ch 19 and 20: Population/Community Ecology	
15	Apr 29th to May 5th	Review	Review (Chapters 7-8, 11-15, 17, 19-20)	Lab 15: Analyze your Terrarium
Finals Week	May 6th to May 8th	<b>Exam 2</b>	<b>Exam 2</b>	<b>No Lab - Finals Week</b>