



Spring 2025

College of the Redwoods



Course Information

Semester & Year: Spring 2025

Course ID and Section number: BIOL-1-V8305

Instructor's name: Linnea Anderson

Day and time of required meetings: Weekly Canvas Check-ins

Course units: 4



Instructor Contact Information

Online (Canvas URL): <https://redwoods.instructure.com/courses/19632>

Office hours: by request via Zoom – evenings and weekends

Email address: linnea-anderson@redwoods.edu

Communication notes: Canvas Inbox is preferred method of communication



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, or bipolar disorder
- 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
- Neurodevelopmental disorders such as a learning disability, intellectual disability, autism, acquired brain injury, or ADHD
- Vision, hearing, or mobility conditions

Available services include extended test time, quiet testing environments, academic assistance and tutoring through the [LIGHT Center](#) ➞

(<https://www.redwoods.edu/services/sass/light.php>), counseling and advising, alternate formats of course materials (e.g., audio books, braille, E-texts), assistive technology, learning disability assessments, approval for personal attendants, interpreters, priority registration, on-campus transportation, adaptive physical education and living skills courses, and more. If you believe you might benefit from disability- or health-related services and accommodations, please contact [Student Accessibility Support Services \(SASS\)](#) ➞

(<https://www.redwoods.edu/services/sass/index.php>). If you are unsure whether you qualify, please contact Student Accessibility Support Services (SASS) for a consultation:

sass@redwoods.edu (<mailto:sass@redwoods.edu>).

Eureka: 707-476-4280, Student Services building, first floor SS113

Del Norte: 707-465-2353, 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](#) (<https://www.redwoods.edu/online>) (Comprehensive information for online students)
- [Library Articles & Databases](#) (<https://redwoods.libguides.com/az.php>)
- [Canvas help and tutorials](#) ➞ (https://support.canvaslms.com/s/?c_role=student&c_accountId=001A000000KMmj5IAD)
(<https://www.redwoods.edu/Portals/72/Documents/Students/CR-OnlineStudentHandbook.pdf>)
- [Online Tutoring Resources](#) ➞ (<https://redwoods.libguides.com/Tutoring/Online>)

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](https://www.timelycare.com/redwoods)  (<https://www.timelycare.com/redwoods>).

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](https://cvc.edu/wellness)  (<https://cvc.edu/wellness>).

Counseling

[Counseling & Advising](https://www.redwoods.edu/services/counseling/index.php)  (<https://www.redwoods.edu/services/counseling/index.php>) can assist students in need of academic advising and professional counseling services.

Eureka Campus-Visit the Welcome Center in the lower level of the student services building Monday –Friday 9am – 4pm (during the semester, summer hours may vary).

Eureka Downtown Site- 525 D St Eureka Phone: 707-476-4500 Email: ace@redwoods.edu

Basic Needs Center ▲

The Basic Needs Center ➦ [_](https://www.redwoods.edu/services/bnc/index.php)(<https://www.redwoods.edu/services/bnc/index.php>) 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 also **[submit a request for services and information](https://cm.maxient.com/reportingform.php?Redwoods&layout_id=7)** ➦ [_](https://cm.maxient.com/reportingform.php?Redwoods&layout_id=7)(https://cm.maxient.com/reportingform.php?Redwoods&layout_id=7) online.

Contact info

Phone: 707-476-4153

Email: the-grove@redwoods.edu

Learning Resource Center ▲

Learning Resource Center includes the following resources for students:

- **Library Services** (<https://www.redwoods.edu/library>) to promote information literacy and provide organized information resources.
- **Multicultural & Equity Center.** ➦ [_](https://www.redwoods.edu/services/mec/index.php)(<https://www.redwoods.edu/services/mec/index.php>)
- **Academic Support Center.** ➦ [_](https://www.redwoods.edu/services/asc/index.php)(<https://www.redwoods.edu/services/asc/index.php>) – offers tutoring and test proctoring for CR students.
- **Student Tech Help.** ➦ [_](https://www.redwoods.edu/support.php)(<https://www.redwoods.edu/support.php>) – provides students with assistance around a variety of tech problems.

Extended Opportunity Programs & Services (EOPS) ▲

Extended Opportunity Programs & Services (EOPS) ➦ [_](https://www.redwoods.edu/services/eops/index.php)(<https://www.redwoods.edu/services/eops/index.php>) 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 Success Program provides eligible students with a variety of services including trips to 4-year universities, career assessments, and peer mentoring. Students can apply for the program in [Eureka](https://www.redwoods.edu/services/trio.php).  (<https://www.redwoods.edu/services/trio.php>) or in [Del Norte](https://www.redwoods.edu/services/trio.php).  (<https://www.redwoods.edu/services/trio.php>)

Veterans Resource Center

The [Veteran's Resource Center](https://www.redwoods.edu/services/vrc.php).  (<https://www.redwoods.edu/services/vrc.php>) 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](https://www.redwoods.edu/services/calworks/index.php)  (<https://www.redwoods.edu/services/calworks/index.php>) – 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. Notice of accommodations according to the Americans with Disabilities Act, should be made known 2 weeks prior to any exam. There are **NO make-up exams**.

2. Homework Quizzes (15%)

Weekly “homework” in the form of open note/book quizzes. These quizzes will cover lecture material and reading assignments from *Concepts of Biology* for the week. Late quizzes will be

accepted for 2 days past the due date for 50% credit.

3. Lab Reports (25%)

Weekly “kitchen” labs with experimental data, calculations, and questions. Most labs can be completed using materials commonly found in homes. Late labs will be accepted for 2 days past the due date for 75% credit. Must complete at least 11 of the 15 labs to earn greater than a C for the course.

4. Interactive Assignments (15%)

Weekly interactive assignment. This will include interactive websites or handouts to encourage creative thinking on the lecture topic for the week. Late Interactive Assignments will be accepted for 2 days past the due date for 50% credit.

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.



Fake Student Policy

Fraudulent enrollments are on the rise. To ensure that real students can get seats in the class, no shows will be dropped in the middle of the first week of classes. Also, if you are suspected of being a bot, you will be dropped from the class. If you have been dropped but are a real student, please contact your instructor right away to be reinstated in the class.



Spring 2025 Dates

Date	To Remember
January 17	Last day to register for classes (day before the first class meeting)
January 18	Classes begin
January 20	Martin Luther King's Birthday (All Campuses Closed)
January 24	Last day to add a class
January 31	Last Day to Drop & Receive a Refund
February 2	Last Day to Drop w/out a "W"
February 3	Census Date (20% of class)
February 14	Lincoln's Birthday (All Campuses Closed)
February 17	President's Day (All Campuses Closed)
March 6	Last Day to Petition to Graduate & Petition for Certificate
March 17-22	Spring Break (No Classes)
March 28	Last Day for Student/Faculty Withdrawal
March 31	Cesar Chavez Day (District Wide Closure)
May 10-16	Final Examinations
May 16	Last Day to File P/NP Option
May 16	Semester Ends
May 23	Grades Due

Date	To Remember
May 30	Grades Available for Transcript Release (approximate)

Important Spring 2025 Academic Dates



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](https://go.boarddocs.com/ca/redwoods/Board.nsf/goto?open&id=C9RVCG801790) [_ \(https://go.boarddocs.com/ca/redwoods/Board.nsf/goto?open&id=C9RVCG801790\)](https://go.boarddocs.com/ca/redwoods/Board.nsf/goto?open&id=C9RVCG801790)) 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](https://www.redwoods.edu/academics/catalog.php) [_ \(https://www.redwoods.edu/academics/catalog.php\)](https://www.redwoods.edu/academics/catalog.php) and on the [College of the Redwoods website](https://www.redwoods.edu/) [_ \(https://www.redwoods.edu/\)](https://www.redwoods.edu/).



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](#)  <https://go.boarddocs.com/ca/redwoods/Board.nsf/Public?open&id=policies>) 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](#)  <https://www.redwoods.edu/academics/catalog.php> and on the [College of the Redwoods website](#)  <https://www.redwoods.edu/>.



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.



DEIA+A Commitment Statement

Each of us is responsible for creating and maintaining inclusive environments. Inclusive environments require us to work to identify, examine, and limit the ways our implicit social biases impact our actions. Learning can happen when diversity and individual differences are understood, respected, appreciated & recognized as a source of strength, benefit and resource. Incidents of bias, discrimination, and microaggressions do occur, whether intentional or unintentional. These things contribute to creating unwelcoming environments for individuals and groups at our college. CR encourages anyone who experiences or observes environments at our college that become unfair or hostile on the basis of peoples' identities to speak out for justice and support. Speaking out can take place within the moment of the incident or after the incident has passed. Anyone can share these experiences with a trusted CR faculty/staff/administrator, or by using the following CR resources: [Unlawful Discrimination Complaint Form](#)  <https://www.redwoods.edu/Students/Student-Complaint-Process.html#UDC>); [Non-Academic Complaint](#)  <https://www.redwoods.edu/Students/Student-Complaint-Process.html#NAC>); [Title IX](#) 

(<https://www.redwoods.edu/student-services/Home/Title-IX.html>); [Grade Change](#) ➞
(<https://www.redwoods.edu/Students/Student-Complaint-Process.html#GCC>)



Canvas

Canvas Information

Log into Canvas at [My CR Portal](#) ➞ (<https://myapps.microsoft.com/Redwoods.edu/>)

➞ (<https://myapps.microsoft.com/Redwoods.edu/>) For help with Canvas visit the [Canvas Help Page](#) ➞ (https://support.canvaslms.com/s/?c_role=student&c_accountId=001A000000KMmj5IAD)

If you cannot log into Canvas or access the CR Portal please submit a [help ticket](#) ➞ (<https://help.redwoods.edu/support/home>).

Canvas online orientation workshop: [Canvas Student Orientation Course \(instructure.com\)](#)
(<https://redwoods.instructure.com/courses/6781>)

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](#) ➞ (<https://www.redwoods.edu/services/admissions/index.php>) 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](#) ➞ (<https://archive.redwoods.edu/Portals/28/A.R.Forms.Docs/Miscellaneous/Student%20Information%20Updateb9bc.pdf?ver=2022-03-30-165900-813>).



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](#) ➞

(<https://webadvisor.redwoods.edu>) 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 Page](https://www.redwoods.edu/publicsafety)  (<https://www.redwoods.edu/publicsafety>).

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](https://archive.redwoods.edu/Portals/70/pdfs/DN%20CampusMap_010819-2.pdf)  (https://archive.redwoods.edu/Portals/70/pdfs/DN%20CampusMap_010819-2.pdf) for campus evacuation sites, including the closest site to this classroom (posted by the exit of each room). For more information, see the [Redwoods Campus Safety Page](https://www.redwoods.edu/about/security/index.php)  (<https://www.redwoods.edu/about/security/index.php>).

Eureka Campus Emergency Procedures

Please review the [campus emergency map](https://www.redwoods.edu/locations/EurekaEmergencyMap_S24.pdf)  (https://www.redwoods.edu/locations/EurekaEmergencyMap_S24.pdf) for evacuation sites, including the closest site to this classroom (posted by the exit of each room). For more information on Public Safety go to the [CR Police Department Public Safety](https://www.redwoods.edu/about/security/index.php)  (<https://www.redwoods.edu/about/security/index.php>). It is the responsibility of College of the Redwoods to protect life and property from the effects of emergencies within its own jurisdiction.

In the event of an emergency:

1. Evaluate the impact the emergency has on your activity/operation and take appropriate action
2. Dial 911, to notify local agency support such as law enforcement or fire services.
3. Notify Public Safety 707-476-4111 and inform them of the situation, with as much relevant information as possible.
4. Public Safety shall relay threat information, warnings, and alerts through the Everbridge emergency alert system, Public address system, and when possible, updates on the college website, to ensure the school community is notified.
5. Follow established procedures for the specific emergency as outlined in the College of the Redwoods Emergency Procedure Booklet, (evacuation to a safe zone, shelter in place, lockdown, assist others if possible, cooperate with First Responders, etc.).
6. If safe to do so, notify key administrators, departments, and personnel.
7. Do not leave campus, unless it is necessary to preserve life and / or has been deemed safe by the person in command.

Klamath-Trinity Campus Emergency Procedures



Please review the responsibilities of, and procedures used by, the College of the Redwoods, KlamathTrinity 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 2025 Schedule

Week	Date			Lecture Topic	Textbook Chapter	Lab
					OpenStax Concepts of Biology	
1	Jan	20th	to	Introduction to Science	Ch 1: Introduction to Biology (1.2)	Lab 1: Doing Science
	Jan	26th		Introduction to Biology	Ch 1: Introduction to Biology (1.1)	
2	Jan	27th	to	Chemistry of Life	Ch 2: Chemistry of Life (2.1-2.2)	Lab 2: Chemistry of Life
	Feb	2nd		Biological Molecules	Ch 2: Chemistry of Life (2.3)	
3	Feb	3rd	to	Cell Structure and Function	Ch 3: Cell Structure and Function (3.1-3.3)	Lab 3: Scopes and Cells
	Feb	9th		Membrane Transport	Ch 3: Cell Structure and Function (3.4-3.6)	
4	Feb	10th	to	Energy/Enzymes	Ch 4: How Cells Obtain Energy (4.1)	Lab 4: Diffusion and Osmosis
	Feb	16th		Cellular Respiration	Ch 4: How Cells Obtain Energy (4.2-4.5)	

5	Feb	17th	to	Photosynthesis	Ch 5: Photosynthesis	Lab 5: Enzymes
	Feb	23rd		Cell Cycle/Mitosis	Ch 6: Reproduction at the Cellular Level	
6	Feb	24th	to	DNA Structure/Replication	Ch 9: Molecular Biology (9.1-9.2)	Lab 6: Fermentation
	Mar	2nd		Transcription/Translation	Ch 9: Molecular Biology (9.3-9.5)	
7	Mar	3rd	to	Review	Review Chapters 1-6, 9	Lab 7: DNA
	Mar	9th				
8	Mar	10th	to	Exam 1	Exam 1 - To be completed by March 12th	Lab 8: Mitosis
	Mar	16th				
March 17th-23rd				Spring Break - No Classes		
9	Mar	24th	to	Meiosis/Sexual Reproduction	Ch 7: The Cellular Basis of Inheritance and Ch 18	Lab 9: Meiosis & Heredity
	Mar	30th				
10	Mar	31st	to	Mendelian Genetics	Ch 8: Patterns of Inheritance (8.1)	Lab 10: Build a Terrarium
	Apr	6th		Laws of Inheritance	Ch 8: Patterns of Inheritance (8.2)	
11	Apr	7th	to	Mechanisms of Evolution	Ch 11: Evolution and Its Processes (11.1-11.2)	Lab 11: Human Heredity
	Apr	13th		Evidence of Evolution	Ch 11: Evolution and Its Processes (11.3-11.5)	
12	Apr	14th	to	Diversity of Life	Ch 12: Diversity of Life	Lab 12: Classification & Tree Thinking
	Apr	20th		Diversity of Microbes	Ch 13: Diversity of Microbes, Fungi and Protists	
13	Apr	21st	to	Diversity of Protists and Fungi	Ch 13: Diversity of Microbes, Fungi and Protists	Lab 13: Natural Selection
	Apr	27th		Diversity Plants	Ch 14: Diversity of Plants	
14	Apr	28th	to	Diversity of Animals	Ch 15: Diversity of Animals	Lab 14: Biodiversity Field Trip
	May	4th		Ecology	Ch 19 and 20: Population/Community Ecology	
15	May	5th	to	Review	Review (Chapters 7-8, 11-15, 17, 19-20)	Lab 15: Analyze your Terrarium
	May	11th				
Finals Week	May	12th	to	Exam 2	Exam 2	No Lab - Finals Week
	May	14th				