

Course Information

Semester & Year: Fall 2020

Course ID & Section #: BIOL-1-E9862

Instructor's name: Linnea Anderson

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

Number of proctored exams: 0

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

Required Materials

Textbook: Concepts of Biology

Author: OpenStax College (available FREE online) accessed at <http://cnx.org> or on Canvas

ISBN: ISBN-10: 1938168119

ISBN-13: 978-1-938168-11-6

Lab Kit: <https://www.carolina.com/catalog/detail.jsp?prodId=581013>

Lab Notebook: <https://mynotebook.labarchives.com/login>

Computer and Internet

Accessibility

Students will have access to online course materials that comply with the Americans with Disabilities Act of 1990 (ADA), Section 508 of the Rehabilitation Act of 1973, and College of the Redwoods policies. Students who discover access issues with this class should contact the instructor.

College of the Redwoods is also 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 based on their campus location:

- Eureka: 707-476-4280, student services building, 1st floor
- Del Norte: 707-465-2324, main building near library
- Klamath-Trinity: 530-625-4821 Ext 103

During COVID19, approved accommodations for distance education classes will be emailed to the instructor by DSPS.

Support for online learners during COVID-19

In response to COVID-19, College of the Redwoods moved the majority of its courses online to protect health and safety. As the faculty and students adjust to this change, clear communication about student needs will help everyone be successful. Please let me know about any specific challenges or technology limitations that might affect your participation in class. I want every student to thrive.

Evaluation & Grading Policy

1. Exams (40%)

There will be **two midterm exams** (50 pts each). Each midterm will cover half of the lecture 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. They will be 20 points each.

No late quizzes will be accepted.

3. Lab Reports (25%)

Each week you’ll complete a lab via an online lab notebook with experimental data, calculations, and questions. Reports will be graded out of 10 points. **NO late labs will be accepted.**

4. Interactive Assignments (10%)

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.

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 (open to all) to talk about lecture material. There will also be group discussions (groups will be preassigned) to talk about lab material.

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.

Classroom Policies

You will be required to check Canvas **regularly**. If there's inactivity on your Canvas, you may get booted from the class. You will be required to participate in discussions open to all students. I will **NOT** tolerate any hateful, discriminatory, or otherwise inappropriate language. We are in this together and everyone can use a helping hand. Please be kind and courteous.

I expect you to keep up on your weekly assignments and touch base regularly if you are having any difficulties. I'll be much more receptive to helping you if you give me adequate heads up on an issue.

Admissions deadlines & enrollment policies

Fall 2020 Dates

- *Classes begin: 8/22/20*
- *Last day to add a class: 8/28/20*
- *Last day to drop without a W and receive a refund: 9/4/20*
- *Labor Day (all-college holiday): 9/7/20*
- *Census date: 9/8/20 or 20% into class duration*
- *Last day to petition to file P/NP option: 9/18/20*
- *Last day to petition to graduate or apply for certificate: 10/29/20*
- *Last day for student-initiated W (no refund): 10/30/20*
- *Last day for faculty initiated W (no refund): 10/30/20*
- *Veteran's Day (all-college holiday): 11/11/20*
- *Fall break (no classes): 11/23/20-11/28/20*
- *Thanksgiving (all-college holiday): 11/25/20-11/27/20*
- *Final examinations: 12/12/20-12/18/20*
- *Semester ends: 12/18/20*
- *Grades available for transcript release: approximately 1/8/21*

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.

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](#).

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.

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. It does not change your legal name in our records. See the [Student Information Update form](#).

Canvas Information

If using Canvas, include navigation instructions, tech support information, what Canvas is used for, and your expectation for how regularly students should check Canvas for your class.

Log into Canvas at <https://redwoods.instructure.com>

Password is your 8 digit birth date

For tech help, email its@redwoods.edu or call 707-476-4160

Canvas Help for students: <https://www.redwoods.edu/online/Help-Student>

Canvas online orientation workshop: <https://www.redwoods.edu/online/Home/Student-Resources/Canvas-Resources>

Community College Student Health and Wellness

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 [Health & Wellness website](#).

[Wellness Central](#) is a free online health and wellness resource that is available 24/7 in your space at your pace.

Students seeking to request a counseling appointment for academic advising or general counseling can email counseling@redwoods.edu.

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 if you have any questions. For more information see the [Redwoods Public Safety Page](#).

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.

Eureka Campus Emergency Procedures

Please review the [campus emergency map](#) 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 [Redwoods Public Safety Page](#) It is the responsibility of College of the Redwoods to protect life and property from the effects of emergency situations 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.

Student Support Services

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](#)

[Counseling](#) offers assistance to students in need of professional counseling services such as crisis counseling.

Learning Resource Center includes the following resources for students

- [Academic Support Center](#) for instructional support, tutoring, learning resources, and proctored exams. Includes the Math Lab & Drop-in Writing Center
- [Library Services](#) to promote information literacy and provide organized information resources.
- [Multicultural & Diversity Center](#)

Special programs are also available for eligible students include

- [Extended Opportunity Programs & Services \(EOPS\)](#) provides financial assistance, support and encouragement for eligible income disadvantaged students at all CR locations.
- 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](#) or in [Del Norte](#)
- 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.
- Klamath-Trinity students can contact the CR KT Office for specific information about student support services at 530-625-4821

Fall Schedule (subject to change)

Week	Date	Lecture Topic	Textbook Chapter <i>OpenStax Concepts of Biology</i>	Lab
1	Aug 24th to	Introduction to Science	Ch 1: Introduction to Biology (1.2)	Lab 1: Doing Science
	Aug 30th	Introduction to Biology	Ch 1: Introduction to Biology (1.1)	
2	Aug 31st to	Chemistry of Life	Ch 2: Chemistry of Life (2.1-2.2)	Lab 2: Chemistry of Life
	Sept 6th	Biological Molecules	Ch 2: Chemistry of Life (2.3)	
3	Sept 7th to	Cell Structure and Function	Ch 3: Cell Structure and Function (3.1-3.3)	Lab 3: Scopes and Cells
	Sept 13th	Membrane Transport	Ch 3: Cell Structure and Function (3.4-3.6)	
4	Sept 14th to	Energy/Enzymes	Ch 4: How Cells Obtain Energy (4.1)	Lab 4: Osmosis and Diffusion
	Sept 20th	Cellular Respiration	Ch 4: How Cells Obtain Energy (4.2-4.5)	
5	Sept 21st to	Photosynthesis	Ch 5: Photosynthesis	Lab 5: Energy and Metabolism
	Sept 27th	DNA Structure/Replication	Ch 9: Molecular Biology (9.1-9.2)	
6	Sept 28th to	Transcription/Translation	Ch 9: Molecular Biology (9.3-9.5)	Lab 6: Cellular Respiration
	Oct 4th	Cell Cycle/Mitosis	Ch 6: Reproduction at the Cellular Level	
7	Oct 5th to	Review	Review Chapters 1-6, 9	Lab 7: Photosynthesis
	Oct 11th			
8	Oct 12th to	Exam 1	Exam 1	No Lab
	Oct 18th			
9	Oct 19th to	Meiosis/Sexual Reproduction	Ch 7: The Cellular Basis of Inheritance and Ch 18	Lab 8: DNA Structure and Function
	Oct 25th	Mendelian Genetics	Ch 8: Patterns of Inheritance (8.1)	
10	Oct 26th to	Laws of Inheritance	Ch 8: Patterns of Inheritance (8.2)	Lab 9: Mitosis
	Nov 1st	Mechanisms of Evolution	Ch 11: Evolution and Its Processes (11.1-11.2)	
11	Nov 2nd to	Evidence of Evolution	Ch 11: Evolution and Its Processes (11.3-11.5)	Lab 10: Meiosis
	Nov 8th	Diversity of Life	Ch 12: Diversity of Life	
12	Nov 9th to	Diversity of Microbes	Ch 13: Diversity of Microbes, Fungi and Protists	Lab 11: Mendelian Genetics
	Nov 15th	Immunology	Ch 17: The Immune System and Disease	
13	Nov 16th to	Diversity of Protists and Fungi	Ch 13: Diversity of Microbes, Fungi and Protists	Lab 12: Human Inheritance
	Nov 22nd	Diversity Plants	Ch 14: Diversity of Plants	
Fall Break - No Classes				
14	Nov 30th to	Diversity of Animals	Ch 15: Diversity of Animals	Lab 13: Natural Selection
	Dec 6th	Ecology	Ch 19 and 20: Population/Community Ecology	
15	Dec 7th to	Review	Review (Chapters 7-8, 11-15, 17, 19-20)	Lab 14: Tree of Thinking
	Dec 13th			
Finals Week	Dec 14th to Dec 18th	Exam 2	Exam 2	No Lab - Finals Week