



Syllabus for BIOL-1_____ (class)

Course Information

Semester & Year: FALL 2021

Course ID & Section #: BIOL-1-E2227

Instructor's name: RALPH REINER

[if synchronous] Day/Time of required meetings:

[if in-person] Location: LAB: Th 01:15 pm – 04:25 pm

[if needed] Number of proctored exams:

Course units: 4 units

Instructor Contact Information

Office location or *Online: Rm SC-108

Office hours: 12-1

Phone number: (707) 499-8619

Email address: ralph-reiner@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.

Course Student Learning Outcomes *(from course outline of record)*

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 change to the production of biological diversity

Prerequisites/co-requisites/ recommended preparation

[If applicable]

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 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

If you are taking online classes DSPS will email approved accommodations for distance education classes to your instructor. In the case of face-to-face instruction, please present your written accommodation request to your instructor at least one week before the needed accommodation so that necessary

arrangements can be made. Last minute arrangements or post-test adjustments usually cannot be accommodated.

LECTURE SCHEDULE

Bio 1 Text: Concepts of Biology: OpenStax College (free online Text)

Fall 2021 <http://cnx.org/content/col11487/latest/>

Ralph Reiner

Tentative Lecture Schedule

<u>Date</u>			<u>Lecture</u>	<u>Chapter</u>
Mon	Aug	23	What is Life; Viruses and Coronavirus	1
		25	Life and the Chemistry of Life	2
Mon		30	Chemistry of Life	
	Sept	1	Chemistry of Life; Biological Molecules	2
Tues		7	Cellular Organization	2, 3
		9	Cellular Organization	3
Mon		13	Cell Dynamics	4
		15	Cell Dynamics; Energy and Metabolism	4
Mon		20	Cellular Respiration	4
		22	Cellular Respiration	4
Mon		27	Photosynthesis	5
		29	1st Lecture Exam (through 9/22)	
Mon	Oct	4	DNA Structure	9
		6	Mitosis and the Cell Cycle	6
Mon		11	Mitosis and the Cell Cycle	6
		13	Meiosis and Sexual Reproduction	7
Mon		18	Transcription and Translation	9
	20		Mendelian Genetics	8
Mon		25	Mendelian Genetics	8

		27	Chromosomes and Genes	9
Mon	Nov	1	Chromosomes and Genes	9
		3	2nd Lecture Exam (through 10/27)	
Mon		8	Human Genetics	10
		10	Darwin and Evolution	11
Mon		15	Evolution and Natural Selection	11
		17	Life on Earth and Human Evolution	12
Fall Break and Thanksgiving Holiday				
Mon		29	Diversity of Life: Viruses, Bacteria	13
	Dec	1	Diversity of Life: Archaea, Protists	13
Mon		6	Diversity of Life: Fungi and Plants	14
		8	Diversity of Life: Animals	15

Final Exam: Wednesday Dec 15, 2021

LAB SCHEDULE

Bio 1 Text: Introduction to Biology Laboratory Manual

Fall 2021

R. Reiner Tentative Lab Schedule

Date		Lab Topic
Th	Aug 26	Lab # 1: Data Analysis and Presentation
Th	Sept 2	Lab # 2: Chemistry of Life
Th	9	Q-1 Lab # 3: Microscope and Cells

Th		16		Lab # 4: Cell Dynamics: Diffusion and Osmosis
Th		23	Q-2	Lab # 6: Cellular Respiration (and Fermentation)
Th		30		Lab # 11: DNA Structure and Function
Th	Oct	7		1st Lab Exam
Th		14	Q-3	Lab # 7: Cell Division: Mitosis
Th		21		Lab # 8: Cell Division: Meiosis
Th		28	Q-4	Lab # 9: Genetics
Th	Nov	4		Lab # 10: Human Inheritance
Th		11		Holiday
Th		18	Q-5	Lab # 14: Viruses, Bacteria, and Epidemiology
Fall Break and Thanksgiving Holiday				
Th	Dec	2	Q-6	Lab # 13: Evolution and Natural Selection
Th		9		2nd Lab Exam

GENERAL INFORMATION

Biology 1

General Biology

Ralph Reiner

This course is an introduction to Biology dealing with basic biological concepts including molecular and cell biology, metabolism, heredity, evolution, ecology, natural history, and biodiversity.

Structure of the Course:

Four semester hours of credit consisting of three (+) hours of lectures per week and one three-hour laboratory per week.

Textbooks:

Concepts of Biology: OpenStax College: free online text (specific chapters available in the Modules of Canvas)

<http://cnx.org/content/col11487/latest/>

Biology 1 Lab Manual by Jeff Hogue, (available free online in the Modules of Canvas)

Evaluations and Grading:

2 lecture midterm exams worth 100 points each = 200 points total

1 lecture final exam worth 100 points total

2 lab exams worth 75 points each = 150 points total

lab reports (10 points each) (lowest score dropped) worth 100 (percentage) points total

6 total quizzes (10 points each with the lowest score dropped) = 50 points total

The course grade will be determined by the percentage of the total points earned compared to the total points possible.

A = 93-100%; A- = 90-92%; B+ = 88-89%; B = 83-87%; B- = 80-82%;

C+ = 78-79%; C = 70-77%; D = 60-69%; F <60%

Lecture exams will be based on the information discussed in lecture and the reading and will consist mostly of essays plus some short answers, multiple choice, matching, and true and false questions.

Quizzes will be based on the lab information from the previous labs plus some lecture material and will be given at the beginning of the lab class.

The lab exams will be based on information learned in the lab and will consist of “thought questions” relating to laboratory work, plotting of data and discussion of results (“what is the significance of the results”), and other related questions.

Labs: Lab reports will be completed for each lab and need to be turned in at the beginning of the next lab. The lab reports will contain recorded data, plotted data, questions to be answered, drawings and observations, etc, made during the lab. Each lab report is worth 10 points. **Lab reports turned in late will result in the loss of 1 point for each week the report is late. Very late lab reports will not be accepted at the end of the semester.**

All lecture and lab exams must be taken for credit in the course. Any missing lab reports or quizzes will be counted as a zero score. Contact the instructor in advance if there is a problem. (Cell phone: **(707) 499-8619**. If the instructor doesn’t answer, be sure to leave your full name and number – spoken **slowly** – so the instructor can contact you.) **An unapproved missed exam or quiz will result in a zero for the missed work.**

Email: school: ralph-reiner@redwoods.edu home: rreiner99@gmail.com

Academic Integrity: All students are expected to turn in their own work. Any obvious copying of another person’s work will be given a zero for that assignment.

Office Hours:

I will have two office hours each week. One office hour will be on Th 12-1:00 pm and the other office hour will be announced. However, I can be reached other times as well. You may email me through Canvas or directly through CR (ralph-reiner@redwoods.edu), you may text me **(707-499-8619)**, or you may call me (same number as the text number). If you want to FaceTime or Skype, let me know and we can arrange that.

If you have a disability or believe you might benefit from disability related services and may need accommodations, please see me or contact Disabled Students Programs and Services.

Contact DSPS for requests for alternative media.

Emergency Procedures

Please review the campus evacuation sites, including the closest site to this classroom (posted by the exit of each room) and access www.redwoods.edu/safety.asp for information on campus Emergency Procedures.

During an evacuation:

- Be aware of all marked exits from your area and building. Know the routes from your work area to the nearest exits.
- 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 Incident Commander or campus authorities. (Be aware that CR's lower parking lot and 101 frontage road are within the Tsunami Zone).

RAVE - College of the Redwoods has implemented an emergency alert system. Everyone is entered already to receive a message at their CR email address. In the event of an emergency on campus, you can also elect to receive an alert through your personal email, and/or phones at your home, office, and cell. This emergency alert system will be available to all students, staff, and other interested parties.

Registration is necessary in order to receive emergency alerts. Please go to <https://www.GetRave.com/login/Redwoods> and use the "Register" button on the top right portion of the registration page to create an account. During the registration process you can elect to add additional information, such as office phone, home phone, cell phone, and personal email. Please use your CR email address as your primary Registration Email. Your CR email address ends with "redwoods.edu."

Student Support

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.

Evaluation & Grading Policy

[Should include info such as final grade calculations, rubrics, late assignment policy, and other grading practices]

Admissions deadlines & enrollment policies

Fall 2021 Dates

- *Classes begin: 8/21/21*

- *Last day to add a class: 8/27/21*
- *Last day to drop without a W and receive a refund: 9/03/21*
- *Labor Day Holiday (all campuses closed): 09/06/21*
- *Census date: 9/07/21 or 20% into class duration*
- *Last day to petition to graduate or apply for certificate: 10/28/21*
- *Last day for student-initiated W (no refund): 10/29/21*
- *Last day for faculty-initiated W (no refund): 10/29/21*
- *Veteran's Day (all campuses closed): 11/11/21*
- *Fall Break (no classes): 11/22/21 – 11/26/21*
- *Thanksgiving Holiday (all campuses closed): 11/24/21 – 11/26/21*
- *Final examinations: 12/11/21 – 12/17/21*
- *Last day to petition to file P/NP option: 12/17/21*
- *Semester ends: 12/17/21*
- *Grades available for transcript release: approximately 01/07/22*

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. This 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://webapps.redwoods.edu/tutorial/>

Canvas online orientation workshop: [Canvas Student Orientation Course \(instructure.com\)](#)

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.

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 Page](#).

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 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, 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.

1. In the event of an emergency, communication shall be the responsibility of the district employees on scene.
 - a. Dial 911, to notify local agency support such as law enforcement or fire services.
 - b. If safe to do so, notify key administrators, departments, and personnel.
 - c. If safe to do so, personnel shall relay threat information, warnings, to ensure the school community is notified.
 - d. Contact 530-625-4821 to notify of situation.
 - e. Contact Hoopa Tribal Education Administration office 530-625-4413
 - f. Notify Public Safety 707-476-4111.
2. In the event of an emergency, the responsible district employee on scene will:
 - a. Follow established procedures for the specific emergency as outlined in the College of the Redwoods Emergency Procedure Booklet.
 - b. Lock all doors and turn off lights if in lockdown due to an active shooter or similar emergency.

- c. Close all window curtains.
- d. Get all inside to safe location Kitchen area is best internal location.
- e. If a police officer or higher official arrives, they will assume command.
- f. Wait until notice of all is clear before unlocking doors.
- g. If safe to do so, move to the nearest evacuation point outside building (Pooky's Park), directly behind the Hoopa Tribal Education Building.
- h. Do not leave site, unless it has been deemed safe by the person in command. Student Support Services (required for online classes)

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 services to eligible income disadvantaged students including: textbook award, career academic and personal counseling, school supplies, transportation assistance, tutoring, laptop, calculator and textbook loans, priority registration, graduation cap and gown, workshops, and more!
- 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