

BIOL-8 Syllabus and Course Schedule

Syllabus for BIOL-8 (Human Biology)

Course Information:

- Semester & Year: Fall 2021
 - Course ID & Section #: Biol-8 V2519
 - Instructor's name: Christopher Callahan
 - Day/Time: Online
 - Location: Online
 - Number of units: 4.0
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Instructor Contact Information

- Office location: Online
 - Office hours: Tues 2pm on Zoom or by appointment
 - Phone number: 707-465-2379
 - Email address: christopher-callahan@redwoods.edu
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Required Materials

- Textbook Title: OpenStax College Biology
 - Edition: 2e
 - Author: OpenStax College
 - ISBN: N/A
 - Other requirements: Biology Lab Kit
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Catalog Description

A survey of human biology focusing on concepts in cell biology, genetics, anatomy, physiology, disease, and evolution as they relate to the human body. Students apply and evaluate these concepts in laboratory activities that include microscopy, experimentation, and dissection.

Note: This course satisfies life science general education requirements at CR and CSU. Students who have completed BIOL-1 should NOT take this course, unless they are planning on entering the LVN program. This course is required in the first semester of the LVN program. If you have completed BIOL-1, BIOL-6 and BIOL-7, please speak with a counselor or advisor before enrolling in this class.

Course Student Learning Outcomes

1. Use the scientific method to design experiments that include data collection and analysis.
 2. Describe the structural, metabolic and reproductive characteristics of diverse cell types related to human health, and explain how changes in cell function can be correlated with disease.
 3. Relate the structure and function of human organ systems to the maintenance of bodily homeostasis.
 4. Describe specific examples of the genetic basis of human anatomy, physiology, behavior and disease, and explain how genetic variation impacts human evolution.
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Evaluation & Grading Policy

Assignment		Points
Lecture Exams	3 exams @ 100 points each	300
Syllabus Quiz	must be completed by 8/24	5
Lab Safety Quiz	must be completed by 8/30	10
Signed Lab Waiver	must be completed by 8/30	5
Chapter Quiz	13 quizzes	130
Homework	11 assignments	131
Discussion Board	7 discussions	65
Lab Activities	14 activities	205
Research Project		50
	Total Points Attainable:	901

If you receive 95-100% of total points you will receive an A; 90 to 94% earns an A-; 87-89% earns a B+; 84-86% earns a B; 80-83% earns a B-; 75-79 earns a C+; 70-74 earns a C; 60-69% earns a D; and 59% or below earns an F. There is no 'curving' or extra credit opportunities for missed work.

Prerequisites/co-requisites/ Recommended Preparation

None

Student Feedback Policy

All work will be graded within one week of submission for evaluation. Grades will be posted on Canvas and will not be communicated through email. If you would like to discuss grades you'll have to set up a Zoom appointment with me.

Institutional Policies

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](http://www.redwoods.edu/dsps) [\(http://www.redwoods.edu/dsps\)](http://www.redwoods.edu/dsps) (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. In the case of face to face instruction, please present your written accommodation request to your instructor at least one week before the first test so that necessary arrangements can be made. Last-minute arrangements or post-test adjustments cannot usually be accommodated.

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.

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: 9/3/21*
- *Labor Day (all-college holiday): 9/6/21*
- *Census date: 9/7/21*
- *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-college holiday): 11/11/21*
- *Fall break (no classes): 11/22/21-11/26/21*
- *Thanksgiving (all-college holiday): 11/24/21-11/26/21*
- *Final examinations: 12/11/21-12/17/21*
- *Semester ends: 12/17/21*
- *Grades available for transcript release: approximately 1/7/22*

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 \(https://redwoods.instructure.com/courses/13647/pages/student-code-of-conduct-and-disciplinary-procedures?module_item_id=501435\)](https://redwoods.instructure.com/courses/13647/pages/student-code-of-conduct-and-disciplinary-procedures?module_item_id=501435)) 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 \(https://www.redwoods.edu/catalog\)](https://www.redwoods.edu/catalog) and on the [College of the Redwoods website \(https://www.boarddocs.com/ca/redwoods/Board.nsf/Public?open&id=policies\)](https://www.boarddocs.com/ca/redwoods/Board.nsf/Public?open&id=policies).

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 \(https://redwoods.instructure.com/courses/13647/pages/student-code-of-conduct-and-disciplinary-procedures?module_item_id=501435\)](https://redwoods.instructure.com/courses/13647/pages/student-code-of-conduct-and-disciplinary-procedures?module_item_id=501435)) 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 \(https://www.redwoods.edu/catalog\)](https://www.redwoods.edu/catalog) and on the [College of the Redwoods website \(https://www.boarddocs.com/ca/redwoods/Board.nsf/Public?open&id=policies\)](https://www.boarddocs.com/ca/redwoods/Board.nsf/Public?open&id=policies)

Policies for this Class

Class participation

Lecture and lab are intimately interrelated. The topics you learn about in lecture you see in lab, usually that very week. Most labs focus on a particular topic and contain three main types of activities: 1) study of microscope slides or 2) observation of gross anatomical models and dissection of preserved specimens, and 3) observation of human cadavers to learn anatomy and to demonstrate form and function. You are assigned specific exercises in your lab handouts to complete and are expected to answer all questions and make all observations and drawings on extra paper.

Lecture Exams: There are three lecture exams including the lecture final. Exams are not comprehensive and will only cover new material.

Weekly Chapter Quizzes: Each week you will take a quiz covering that week's lecture material. We will not have a quiz on the week we take a lecture exam.

Discussion Board: There are a total of 7 discussion board topics. You will be required to make an initial post by Friday at midnight of that week. You then will respond to at least two of your fellow classmates by the following Monday at midnight. There are no make ups if you miss the discussion board.

Student Presentation: You will work individually to research a topic on a genetic disorder or disease and present your findings to the class. Presentations will be given in the last week of regular class and topics covered may be on the final exam.

Homeworks: Homeworks are designed to prepare you for the lecture exams and will be assigned prior to each exam.

Attendance Policy

This is an online class and as such you have the freedom to choose when you engage with course content, however, there are strict deadlines on when assignments will be due. This is not a self-paced course and you will have assignments due each week. You must complete assignments on time. No late assignments will be accepted and no extra credit opportunities will be given.

Academic Integrity and Honor Pledge

As a College of the Redwoods student enrolled in an online class you are expected to conduct yourself with integrity. Please review the [Academic Integrity](https://redwoods.instructure.com/courses/13647/pages/academic-integrity?module_item_id=501436) (https://redwoods.instructure.com/courses/13647/pages/academic-integrity?module_item_id=501436) page and then complete the [Syllabus Quiz](https://redwoods.instructure.com/courses/13647/quizzes/63530?module_item_id=501438) (https://redwoods.instructure.com/courses/13647/quizzes/63530?module_item_id=501438) by Tuesday, January 19th at midnight.

Information for this Class

Recommended textbooks & other materials

All textbooks will be provided to you for free. You will receive a lab kit for free, however you will be responsible to purchase various other miscellaneous kitchen supplies to complete lab activities (e.g., milk, vinegar, etc). Please refer to the [Online Orientation Letter](https://redwoods.instructure.com/courses/13647/pages/biol-8-online-orientation-letter) (<https://redwoods.instructure.com/courses/13647/pages/biol-8-online-orientation-letter>) for more details

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/admissions/Forms) (<https://www.redwoods.edu/admissions/Forms>) 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](https://www.redwoods.edu/Portals/28/A.R.Forms.Docs/Miscellaneous/Student%20Information%20Update.pdf) (<https://www.redwoods.edu/Portals/28/A.R.Forms.Docs/Miscellaneous/Student%20Information%20Update.pdf>).

Canvas Information

Please see [Online Orientation Letter \(https://redwoods.instructure.com/courses/13647/pages/biol-8-online-orientation-letter\)](https://redwoods.instructure.com/courses/13647/pages/biol-8-online-orientation-letter) for more information

- Log into Canvas at <https://redwoods.instructure.com> (<https://redwoods.instructure.com/>)
 - Password is your 8 digit birth date
 - For tech help, email its@redwoods.edu (<mailto:its@redwoods.edu>) or call 707-476-4160
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Technology skills, requirements, and support

Please see [Online Orientation Letter \(https://redwoods.instructure.com/courses/13647/pages/biol-8-online-orientation-letter\)](https://redwoods.instructure.com/courses/13647/pages/biol-8-online-orientation-letter) for more information

- Tech equipment and skills are required for student success, and of equal importance as required textbooks and materials.
 - Students can obtain a free [Office 365 license](https://www.redwoods.edu/Services/Office365) (<https://www.redwoods.edu/Services/Office365>) (includes Word, Excel, PowerPoint and more) with a valid CR email.
 - Before contacting Technical Support please visit the [Online Support Page](http://www.redwoods.edu/online/Help) (<http://www.redwoods.edu/online/Help>).
 - For password issues with Canvas, Web Advisor or your mycr.redwoods.edu email, contact its@redwoods.edu (<mailto:its@redwoods.edu>) or call 707-476-4160 or 800-641-0400 ext. 4160 between 8:00 A.M. and 4:00 P.M., Monday through Friday.
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Student Support Services

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

- [CR-Online](http://www.redwoods.edu/online) (<http://www.redwoods.edu/online>) (Comprehensive information for online students)
- [Library Articles & Databases](https://redwoods.libguides.com/az.php) (<https://redwoods.libguides.com/az.php>)
- [Canvas help and tutorials](http://www.redwoods.edu/online/Canvas) (<http://www.redwoods.edu/online/Canvas>)
- [Online Student Handbook](http://www.redwoods.edu/Portals/72/Documents/Students/CR-OnlineStudentHandbook.pdf) (<http://www.redwoods.edu/Portals/72/Documents/Students/CR-OnlineStudentHandbook.pdf>)

[Counseling and Advising](http://www.redwoods.edu/counseling/) (<http://www.redwoods.edu/counseling/>) offers academic support and includes academic advising and educational planning

Learning Resource Center includes the following resources for students:

- [Academic Support Center](http://www.redwoods.edu/asc) (<http://www.redwoods.edu/asc>) for instructional support, tutoring, and learning resources.

- **Library Services** [_\(https://www.redwoods.edu/library\)_](https://www.redwoods.edu/library) to promote information literacy and provide organized information resources.
- Multicultural & Diversity Center
- Math Lab & Drop-in Writing Center

Special programs are also available for eligible students include

- **Extended Opportunity Programs & Services (EOPS)** [_\(http://www.redwoods.edu/eops\)_](http://www.redwoods.edu/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** [_\(https://www.redwoods.edu/trio/eureka\)_](https://www.redwoods.edu/trio/eureka) or in **Del Norte** [_\(https://www.redwoods.edu/delnorte/TRiO\)_](https://www.redwoods.edu/delnorte/TRiO)
 - The **Veteran's Resource Center** [_\(https://www.redwoods.edu/vets\)_](https://www.redwoods.edu/vets) 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
 - The **Honors Program** [_\(https://www.redwoods.edu/Honors/\)_](https://www.redwoods.edu/Honors/) helps students succeed in transferring to a competitive four-year school.
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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** [_\(https://www.cccstudentmentalhealth.org/health-wellness-for-students/\)_](https://www.cccstudentmentalhealth.org/health-wellness-for-students/).
 - **Wellness Central** [_\(https://ccconlineed.instructure.com/courses/1895?cf_id=2248\)_](https://ccconlineed.instructure.com/courses/1895?cf_id=2248) 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 [_\(mailto:counseling@redwoods.edu\)_](mailto:counseling@redwoods.edu).
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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>

(<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](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.

Course Schedule

Each week new learning topics will be available in the course modules. Topics are arranged by lecture exam (4 or 5 topics per exam). Each week will begin on Tuesday and end the following Monday at midnight. This schedule is subject to change with fair notice.

Week	Begin Date Tuesday	End Date Monday	Topic
1	August 24, 2021	August 30, 2021	Topic 1: Intro to Biology Chapter 1 Lab 1: Microscopy
2	August 31, 2021	September 6, 2021	Topic 2: Viruses and Pandemics Chapter 21 Lab 2: Viruses and Pandemics
3	September 7, 2021	September 13, 2021	Topic 3: Scientific Method Chapter 1

			Lab 3: Scientific Method
4	September 14, 2021	September 20, 2021	Topic 4: Chemistry of Life Chapter 2 Lab 4: Chemistry
5	September 21, 2021	September 27, 2021	Topic 5: Macromolecules Chapter 3 Lab 5: Macromolecules Lecture Exam I
6	September 28, 2021	October 4, 2021	Topic 6: Cell Structure and Function Chapters 4 & 5 Lab 6: Diffusion/Osmosis
7	October 5, 2021	October 11, 2021	Topic 7: Cell Division Chapter 10 Lab 7: Cell Division and Cancer
8	October 12, 2021	October 18, 2021	Topic 8: Meiosis and Sexual Reproduction Chapter 11 No Lab for this topic
9	October 19, 2021	October 25, 2021	Topic 9: Mendelian Genetics Chapter 12 Lab 8: Mendelian Genetics

10	October 26, 2021	November 1, 2021	Topic 10: Human Genetics Chapter 13 Lab 9: Human Genetics Lecture Exam II
11	November 2, 2021	November 8, 2021	Topic 11: DNA Structure & Function Chapter 14 Lab 10: DNA Extraction
12	November 9, 2021	November 15, 2021	Topic 12: Histology Chapter 33 Lab 11: Histology
13	November 16, 2021	November 22, 2021	Topic 13: Mammal Anatomy I - Anatomical Geography and Digestive System Chapter 34 Lab 12: Digestive System
14	November 23, 2021	November 29, 2021	Thanksgiving Break
15	November 30, 2021	December 6, 2021	Topic 14: Mammal Anatomy II - Circulatory System Chapter 40 Lab 13: Circulatory System
16	December 7, 2021	December 13, 2021	Topic 15: Mammal

			Anatomy III - Nervous System Chapter 35 Lab 14: Nervous System
17	December 14, 2021	December 17, 2021	<i>Virtual Conference</i> <i>Final Lecture Exam</i>