

Spring 2025

Banner Title

College of the Redwoods

Banner Image



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Course Information

Editor Only Note:

After editing and saving, you can create a PDF of your syllabus page by right clicking on your syllabus page and selecting print. in the Destination drop-down menu, select 'Save as PDF.' Submit this to your department secretary.

NOTE: Be sure to click the down arrow above the Student Support Services and Emergency Procedures accordions to expand them all to ensure all text is captured in the PDF you submit.]

Fill out the basic information below; delete any information that is not relevant for your class.

If you experience any difficulties, contact arlene-wynn@redwoods.edu (<mailto:Lorraine-Casazza@redwoods.edu>) for support. You can also contact Arlene via telephone during Campus business hours at 707-476-4109.

Semester & Year: Spring 2025

Course ID & Section #: BIOL-7-E8318 (058318)

Instructor's name: Ralph Reiner

Day/Time of required meetings: Lectures: Mon Wed 1:15 pm - 2:40 pm; Lab Wed 10:05 am - 1:10 pm

Location: Lecture: SC 206; Lab: SC 104

Course units: 4

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Instructor Contact Information

Office location: SC 104

Office hours: Mon 10 am - noon; Wed: by appointment

Phone number: (Science Division Office: 707476-4211); Cell: 707-499-8619

Email address: ralph-reiner@redwoods.edu

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Catalog Description

Editor Only Note:

Add description from College Catalog; check course description in eLumen (login to view current/Active Course Outline of Record). Message division support person for help if needed.

An organ system approach to the study of Human Physiology. Special emphasis is given to molecular and cellular mechanisms responsible for homeostasis. Labs include experiments on human subjects as well as computerized simulations of complex physiological processes. Note: This course is required for application to the nursing program.

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Course Student Learning Outcomes

Editor Only Note:

List CLOs from course outline of record

1. Illustrate how the integration and regulation of organ systems affects the maintenance of homeostasis in the human body.
2. Relate the key functions of major organ systems with the cellular and molecular mechanisms that enable these functions.
3. Analyze examples of disease processes and relate them to aberrations of normal physiological functions.
4. Utilize the process of science to design and carry out physiological experiments, analyze resulting data, and relate results to physiological principles.

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Prerequisites / Co-requisites / Recommended Preparation

Editor Only Note:

Include if applicable

Pre-reqs: Biol 1 (or Biol 3), Biol 6, Chem 2 (or Chem 1a)

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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) (<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) (<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

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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 \(https://www.redwoods.edu/online\)](https://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 \(https://support.canvaslms.com/s/?c_role=student&c_accountId=001A000000KMmj5IAD\)](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 \(https://redwoods.libguides.com/Tutoring/Online\)](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

Expander Plus/Minus

Panel

Community College Student Health and Wellness

Heading

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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: shawnaabmft@gmail.com (<mailto:shawnaabmft@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/).

Panel

Counseling

Heading

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[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

Panel

Basic Needs Center

Heading

Content

[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) online.

Contact info
Phone: 707-476-4153
Email: the-grove@redwoods.edu

Panel

Learning Resource Center

Heading

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Learning Resource Center includes the following resources for students:

- [Library Services \(https://www.redwoods.edu/library\)](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.

Panel

Extended Opportunity Programs & Services (EOPS)

Heading

Content

[Extended Opportunity Programs & Services \(EOPS\)](https://www.redwoods.edu/services/eops/index.php)

[\(https://www.redwoods.edu/services/eops/index.php\)](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!

Panel

TRiO Student Success Program

Heading

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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)

Panel

Veterans Resource Center

Heading

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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.

Panel

CalWORKS

Heading

Content

[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!

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Other Verbiage you can include if you want:

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Evaluation & Grading Policy

Editor Only Note:

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



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
May 30	Grades Available for Transcript Release (approximate)

Important Spring 2025 Academic Dates

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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>)) 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/>).

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AI Use Class Policy

Editor Only Note:

There is no official CR policy on AI use. It is up to the instructor how they would like to address AI use in their courses. Below are three sample policies for you to consider, adapt, or delete. Add to your syllabus by cutting and pasting it above this Editor Only Note.

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.

Recent advancements in generative artificial intelligence (AI) have made large language models such as ChatGPT and Google's Bard widely available. Sometimes, using these tools appropriately can help us overcome barriers and allow us to focus on deeper learning. However, overuse of these tools can undermine the development of our critical and creative thinking skills. In addition, AI outputs are often unreliable and frequently subject to bias. For these reasons, it is sometimes appropriate and sometimes inappropriate to use generative AI in the completion of assignments or in discussion posts. For this class, **please see the specific assignment instructions for guidance on how and when generative AI tools may be used appropriately as we're working on and learning from a particular assignment**. Also, please keep in mind that **you** are responsible for anything you submit; please carefully review all AI-generated outputs, screening them for accuracy, bias, appropriateness, and fidelity to your perspective.

Generative AI tools, such as ChatGPT and Google's Bard, are likely to be widely used in the workplace moving forward. It's important for you to understand how to use them ethically and effectively. For that reason, in this class, you will sometimes be invited to use such a tool in the completion of an assignment. **In this class, using generative AI tools is not cheating if the outputs are screened by you for accuracy, bias, appropriateness, and fidelity to your perspective.**

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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/>).

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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.

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DEIA+A Commitment Statement

Editor Only Note:

MDC Recommended Syllabus Language: Commitment to DEIA work here at CR

Using the "I" voice:

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. I believe 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. I encourage 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)

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

Using the "We" voice:

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)

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



Canvas

Editor Only Note:

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.

Canvas Information

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

[\(https://myapps.microsoft.com/Redwoods.edu/\)](https://myapps.microsoft.com/Redwoods.edu/) For help with Canvas visit the [Canvas Help Page \(https://support.canvaslms.com/s/?c__role=student&c__accountId=001A000000KMmj5IAD\)](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 \(https://help.redwoods.edu/support/home\)](https://help.redwoods.edu/support/home).

Canvas online orientation workshop: [Canvas Student Orientation Course \(instructure.com\) \(https://redwoods.instructure.com/courses/6781\)](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 \(https://www.redwoods.edu/services/admissions/index.php\)](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 \(https://archive.redwoods.edu/Portals/28/A.R.Forms.Docs/Miscellaneous/Student%20Information%20Updateb9bc.pdf?ver=2022-03-30-165900-813\)](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) (<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.

Expander Plus/Minus

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Del Norte Campus Emergency Procedures

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Eureka Campus Emergency Procedures

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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.

Panel

Klamath-Trinity Campus Emergency Procedures

Heading

Content

1.

