

BIOL-2 Syllabus and Course Schedule

Syllabus for BIOL-2 (Microbiology)

Course Information:

- Semester & Year: Spring 2024
 - Course ID & Section #: BIOL-2 E5835
 - Instructor's name: Christopher Callahan
 - Day/Time: Lecture Online; Lab Tuesday and Thursday 10:00am - 1:10pm
 - Location: SC-104
 - Number of units: 4.0
-

Instructor Contact Information

- Office location: SC-216A
 - Office hours: After lab or by appointment
 - Phone number: 707-476-4257
 - Email address: christopher-callahan@redwoods.edu
-

Required Materials

- Textbook Title: OpenStax College Microbiology (Free)
 - Edition: 1e
 - Author: OpenStax College
 - ISBN: N/A
- Laboratory Manual: Microbiology: Laboratory Theory & Application
 - Edition: 3e Brief
 - Author: Leboffe, Morton Publishing
 - ISBN: 978-1617314773

Recommended Materials:

- Lab attire
 - lab coat, scrubs, or other protective clothes
- Personal Protective Equipment (PPE)
 - disposable gloves (latex or nitrile)

- eye protection
 - face mask
-

Catalog Description

A study of microorganisms including anatomy, physiology, genetics, and ecological importance. Emphasis will be on the role of microorganisms in disease and the mechanisms of microbe/host interactions. Laboratory work emphasizes the importance of aseptic techniques, methods of microbial control, and procedures for isolating, culturing microbes, and identifying microorganisms.

Course Student Learning Outcomes

1. Describe the anatomy, physiology and biochemistry of microorganisms and the consequential effects of various environmental factors upon them.
 2. Know the causative organism of the more common human diseases and the physiological effect of the drugs most commonly used in the fight against these diseases.
 3. Describe the principles and applications of genetic engineering and the role that microorganisms are playing in this process.
-

Evaluation & Grading Policy

Assignment		Points
Lecture Exams	3 exams @ 100 points each	300
Lab Practical Exam	1 exam @ 50 points each	50
Syllabus Quiz	must be completed by 8/28	5
Chapter Quiz	12 quizzes @ 10 points each	120
Discussions	3 @ 10 points each	30
Lab Activities	13 activities @ 15 pts each	195
Antibiotics Activity		25
Bergey's Activity		25
Parasite Cafe		25
Descriptive Chart		25
Unknown Report		100

	Total Points Attainable:	900
--	---------------------------------	------------

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

Prerequisite: BIOL-1 or BIOL 3

Pre- or Co-requisite: CHEM-1A or CHEM-2


Student Feedback Policy

All work will be graded within two weeks 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 an in-person meeting with me.

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, bipolar disorder, and ADHD
- 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
- A learning disability (e.g., dyslexia, reading comprehension), intellectual disability, autism, or acquired brain injury
- Vision, hearing, or mobility challenges

Available services include extended test time, quiet testing environments, tutoring, counseling and advising, alternate formats of materials (e.g., audio books, E-texts), assistive technology, on-campus transportation, and more. If you believe you might benefit from disability- or health-related services and accommodations, please contact [Disability Services and Programs](https://www.redwoods.edu/dsps) 

(<https://www.redwoods.edu/dsps>) for Students (DSPS)  (<https://www.redwoods.edu/dsps>). If you

are unsure whether you qualify, please contact DSPS for a consultation: dsps@redwoods.edu (<mailto:dsps@redwoods.edu>).

- Eureka: 707-476-4280, Student Services Building, 1st floor
- Del Norte: 707-465-2324, 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://webapps.redwoods.edu/tutorial/>)
- **Online Student Handbook** ➞ (<https://www.redwoods.edu/Portals/72/Documents/Students/CR-OnlineStudentHandbook.pdf>)
- **Online Tutoring Resources** ➞ (<https://nam12.safelinks.protection.outlook.com/?url=https%3A%2F%2Fredwoods.libguides.com%2FTutoring%2FOnline&data=05%7C01%7CAmber-Atkins%40Redwoods.edu%7Cbcfe068f8aca4941dde408daee9eaea9%7C8c90edff0a7243a795683eb28b3c8f82%7C0%7C0%7C638084662554822741%7CUnknown%7CTWFpbGZsb3d8eyJWlloiMC4wLjAwMDAiLCJQIjoiV2luMzliLCJBTiI6IjE1haWwiLCJXVCi6Mn0%3D%7C3000%7C%7C%7C&sdata=IPQnFsRsujkzGkSNI2eqR4ofcCFQuSN6PcfuoYRnp5s%3D&reserved=0>)

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 here** ➞ (<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.

Counseling

Counseling & Advising [↗\(https://www.redwoods.edu/counseling/\)](https://www.redwoods.edu/counseling/) can assist students in need of academic advising and professional counseling services. Visit the Welcome Center in the lower level of the student services building Monday –Friday 9am – 4pm (during the semester, summer hours may vary).

Basic Needs Center

The Basic Needs Center [↗\(https://www.redwoods.edu/student-services/Home/Basic-Needs\)](https://www.redwoods.edu/student-services/Home/Basic-Needs) 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 submit a request for services and information [here](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)

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** [↗\(https://www.redwoods.edu/library\)](https://www.redwoods.edu/library) to promote information literacy and provide organized information resources.
- **Multicultural & Diversity Center** [↗\(https://www.redwoods.edu/student-services/Home/Multicultural-and-Diversity-Center\)](https://www.redwoods.edu/student-services/Home/Multicultural-and-Diversity-Center)
- **Academic Support Center** [↗\(https://nam12.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.redwoods.edu%2Fasc%2F&data=05%7C01%7CAmber-Atkins%40Redwoods.edu%7Cbcfe068f8aca4941dde408daee9eaea9%7C8c90edff0a7243a795683eb28b3c8f82%7C0%7C0%7C638084662554822741%7CUnknown%7CTWFpbGZsb3d8eyJWIjojMC4wLjAwM](https://nam12.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.redwoods.edu%2Fasc%2F&data=05%7C01%7CAmber-Atkins%40Redwoods.edu%7Cbcfe068f8aca4941dde408daee9eaea9%7C8c90edff0a7243a795683eb28b3c8f82%7C0%7C0%7C638084662554822741%7CUnknown%7CTWFpbGZsb3d8eyJWIjojMC4wLjAwM)

[DAiLCJQIjoiV2luMzliLCJBTil6lk1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=Riz9ZxeBW-EWFm69aT5OdlMsHyFsoonUcvZJLf5yQ1l%3D&reserved=0\)](https://nam12.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.redwoods.edu%2Fsts&data=05%7C01%7CAmber-Atkins%40Redwoods.edu%7Cbcfe068f8aca4941dde408daee9eaea9%7C8c90edff0a7243a795683eb28b3c8f82%7C0%7C0%7C638084662554822741%7CUnknown%7CTWFpbGZsb3d8eyJWljiMC4wLjAwMDAiLCJQIjoiV2luMzliLCJBTil6lk1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=Riz9ZxeBW-EWFm69aT5OdlMsHyFsoonUcvZJLf5yQ1l%3D&reserved=0)) – offers tutoring and test proctoring for CR students.

- **Student Tech Help** [\(https://nam12.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.redwoods.edu%2Fsts&data=05%7C01%7CAmber-Atkins%40Redwoods.edu%7Cbcfe068f8aca4941dde408daee9eaea9%7C8c90edff0a7243a795683eb28b3c8f82%7C0%7C0%7C638084662554822741%7CUnknown%7CTWFpbGZsb3d8eyJWljiMC4wLjAwMDAiLCJQIjoiV2luMzliLCJBTil6lk1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=%2FJ23kPg%2FGw0UgR98LB1fPf7Gik7JzRZUBESsb1Vzf%2BQ%3D&reserved=0\)](https://nam12.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.redwoods.edu%2Fsts&data=05%7C01%7CAmber-Atkins%40Redwoods.edu%7Cbcfe068f8aca4941dde408daee9eaea9%7C8c90edff0a7243a795683eb28b3c8f82%7C0%7C0%7C638084662554822741%7CUnknown%7CTWFpbGZsb3d8eyJWljiMC4wLjAwMDAiLCJQIjoiV2luMzliLCJBTil6lk1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=%2FJ23kPg%2FGw0UgR98LB1fPf7Gik7JzRZUBESsb1Vzf%2BQ%3D&reserved=0)) – provides students with assistance around a variety of tech problems.

EOPS

Extended Opportunity Programs & Services (EOPS). [\(https://nam12.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.redwoods.edu%2Feops&data=05%7C01%7CAmber-Atkins%40Redwoods.edu%7C2ce7a088cd704461ad6d08dbf7468e57%7C8c90edff0a7243a795683eb28b3c8f82%7C0%7C0%7C638375654659447953%7CUnknown%7CTWFpbGZsb3d8eyJWljiMC4wLjAwMDAiLCJQIjoiV2luMzliLCJBTil6lk1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=4ZgZAvPIPkZKsZpUf2og%2BAldVlralzWQwOpvkWmJ8Hw%3D&reserved=0\)](https://nam12.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.redwoods.edu%2Feops&data=05%7C01%7CAmber-Atkins%40Redwoods.edu%7C2ce7a088cd704461ad6d08dbf7468e57%7C8c90edff0a7243a795683eb28b3c8f82%7C0%7C0%7C638375654659447953%7CUnknown%7CTWFpbGZsb3d8eyJWljiMC4wLjAwMDAiLCJQIjoiV2luMzliLCJBTil6lk1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=4ZgZAvPIPkZKsZpUf2og%2BAldVlralzWQwOpvkWmJ8Hw%3D&reserved=0))

[\(https://nam12.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.redwoods.edu%2Feops&data=05%7C01%7CAmber-Atkins%40Redwoods.edu%7C2ce7a088cd704461ad6d08dbf7468e57%7C8c90edff0a7243a795683eb28b3c8f82%7C0%7C0%7C638375654659447953%7CUnknown%7CTWFpbGZsb3d8eyJWljiMC4wLjAwMDAiLCJQIjoiV2luMzliLCJBTil6lk1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=4ZgZAvPIPkZKsZpUf2og%2BAldVlralzWQwOpvkWmJ8Hw%3D&reserved=0\)](https://nam12.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.redwoods.edu%2Feops&data=05%7C01%7CAmber-Atkins%40Redwoods.edu%7C2ce7a088cd704461ad6d08dbf7468e57%7C8c90edff0a7243a795683eb28b3c8f82%7C0%7C0%7C638375654659447953%7CUnknown%7CTWFpbGZsb3d8eyJWljiMC4wLjAwMDAiLCJQIjoiV2luMzliLCJBTil6lk1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=4ZgZAvPIPkZKsZpUf2og%2BAldVlralzWQwOpvkWmJ8Hw%3D&reserved=0)) 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 Support Services Program provides eligible students with a variety of services including academic advising, career assessments, assistance with transfer, and peer mentoring.

Students can apply for the program in **Eureka** [\(https://nam12.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.redwoods.edu%2Ftrio%2Feureka&data=05%7C01%7CAmber-Atkins%40Redwoods.edu%7Ccce79e43cea6a49ebd79308dbf80a65bd%7C8c90edff0a7243a795683eb28b3c8f82%7C0%7C0%7C638376495773454304%7CUnknown%7CTWFpbGZsb3d8eyJWljiMC4wLjAwMDAiLCJQIjoiV2luMzliLCJBTil6lk1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=W9ZMWZ5n12tljMCwaCBonTi1P89g28a3khXNYYLrqEs%3D&reserved=0\)](https://nam12.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.redwoods.edu%2Ftrio%2Feureka&data=05%7C01%7CAmber-Atkins%40Redwoods.edu%7Ccce79e43cea6a49ebd79308dbf80a65bd%7C8c90edff0a7243a795683eb28b3c8f82%7C0%7C0%7C638376495773454304%7CUnknown%7CTWFpbGZsb3d8eyJWljiMC4wLjAwMDAiLCJQIjoiV2luMzliLCJBTil6lk1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=W9ZMWZ5n12tljMCwaCBonTi1P89g28a3khXNYYLrqEs%3D&reserved=0)) or in **Del Norte** [\(https://nam12.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.redwoods.edu%2Fdelnorte%2FTRiO&data=05%7C01%7CAmber-Atkins%40Redwoods.edu%7Ccce79e43cea6a49ebd79308dbf80a65bd%7C8c90edff0a7243a795683eb28b3c8f82%7C0%7C0%7C638376495773454304%7CUnknown%7CTWFpbGZsb3d8eyJWljiMC4wLjAwMDAiLCJQIjoiV2luMzliLCJBTil6lk1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=7DA4%2BYmUqJ4z%2FdPM0TqWmaanydSee8IXEzY29k3fB2M%3D&reserved=0\)](https://nam12.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.redwoods.edu%2Fdelnorte%2FTRiO&data=05%7C01%7CAmber-Atkins%40Redwoods.edu%7Ccce79e43cea6a49ebd79308dbf80a65bd%7C8c90edff0a7243a795683eb28b3c8f82%7C0%7C0%7C638376495773454304%7CUnknown%7CTWFpbGZsb3d8eyJWljiMC4wLjAwMDAiLCJQIjoiV2luMzliLCJBTil6lk1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=7DA4%2BYmUqJ4z%2FdPM0TqWmaanydSee8IXEzY29k3fB2M%3D&reserved=0)).

Students can apply for the program in **Eureka** [\(https://nam12.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.redwoods.edu%2Ftrio%2Feureka&data=05%7C01%7CAmber-Atkins%40Redwoods.edu%7Ccce79e43cea6a49ebd79308dbf80a65bd%7C8c90edff0a7243a795683eb28b3c8f82%7C0%7C0%7C638376495773454304%7CUnknown%7CTWFpbGZsb3d8eyJWljiMC4wLjAwMDAiLCJQIjoiV2luMzliLCJBTil6lk1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=W9ZMWZ5n12tljMCwaCBonTi1P89g28a3khXNYYLrqEs%3D&reserved=0\)](https://nam12.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.redwoods.edu%2Ftrio%2Feureka&data=05%7C01%7CAmber-Atkins%40Redwoods.edu%7Ccce79e43cea6a49ebd79308dbf80a65bd%7C8c90edff0a7243a795683eb28b3c8f82%7C0%7C0%7C638376495773454304%7CUnknown%7CTWFpbGZsb3d8eyJWljiMC4wLjAwMDAiLCJQIjoiV2luMzliLCJBTil6lk1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=W9ZMWZ5n12tljMCwaCBonTi1P89g28a3khXNYYLrqEs%3D&reserved=0)) or in **Del Norte** [\(https://nam12.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.redwoods.edu%2Fdelnorte%2FTRiO&data=05%7C01%7CAmber-Atkins%40Redwoods.edu%7Ccce79e43cea6a49ebd79308dbf80a65bd%7C8c90edff0a7243a795683eb28b3c8f82%7C0%7C0%7C638376495773454304%7CUnknown%7CTWFpbGZsb3d8eyJWljiMC4wLjAwMDAiLCJQIjoiV2luMzliLCJBTil6lk1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=7DA4%2BYmUqJ4z%2FdPM0TqWmaanydSee8IXEzY29k3fB2M%3D&reserved=0\)](https://nam12.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.redwoods.edu%2Fdelnorte%2FTRiO&data=05%7C01%7CAmber-Atkins%40Redwoods.edu%7Ccce79e43cea6a49ebd79308dbf80a65bd%7C8c90edff0a7243a795683eb28b3c8f82%7C0%7C0%7C638376495773454304%7CUnknown%7CTWFpbGZsb3d8eyJWljiMC4wLjAwMDAiLCJQIjoiV2luMzliLCJBTil6lk1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=7DA4%2BYmUqJ4z%2FdPM0TqWmaanydSee8IXEzY29k3fB2M%3D&reserved=0)).

Veterans Resource Center

The [Veteran's Resource Center](https://www.redwoods.edu/student-services/Home/Vets)  (<https://www.redwoods.edu/student-services/Home/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.

CalWORKS

CalWORKs – 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!

Admissions deadlines & enrollment policies

Spring 2024 Dates

- *Classes begin: 01/13/24*
- *Martin Luther King's Birthday (all campuses closed): 01/15/24*
- *Last day to add a class: 01/19/24*
- *Last day to drop without a W and receive a refund: 01/26/24*
- *Census date: 01/29/24 or 20% into class duration*
- *Lincoln's Birthday (all campuses closed): 02/16/24*
- *President's Day (all campuses closed): 02/19/24*
- *Last day to petition to graduate or apply for certificate: 03/01/24*
- *Spring Break (no classes): 03/11/24 – 03/16/24*
- *Last day for student-initiated W (no refund): 03/30/24*
- *Last day for faculty-initiated W (no refund): 03/30/24*
- *Cesar Chavez Holiday (all campuses closed): 04/01/24*
- *Final examinations: 05/06/24 – 05/12/24*
- *Last day to petition to file P/NP option: 05/10/24*
- *Semester ends: 05/10/24*
- *Commencement: 05/12/24*
- *Grades Due: 05/17/24*
- *Grades available for transcript release: approximately 05/24/24*

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/17783/pages/student-code-of-conduct-and-disciplinary-procedures?module_item_id=883005)) 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>).

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 \(https://redwoods.instructure.com/courses/17783/pages/student-code-of-conduct-and-disciplinary-procedures?module_item_id=883005\)](https://redwoods.instructure.com/courses/17783/pages/student-code-of-conduct-and-disciplinary-procedures?module_item_id=883005)) 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. Attendance at all lab meetings is mandatory and required.

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

Lab Exams: There is one lab exam in the final lab period of the semester.

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.

Unknown Report: You will be given an unknown bacterial species that you will systematically identify to species based on the lab skills learned this semester. You will submit your findings at the end of the semester in a report. More details will be given in lab.

Discussions: There will be three online discussions to participate in.

Misc Assignments: There are misc assignments given throughout the semester.

Attendance Policy

This is a hybrid class. All lecture material will be conducted online 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. Lab activities meet in-person on Tuesday/Thursday 10:00am-1:10pm in room SC-104. You are expected and required to attend all in-person labs. 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. In the event of Covid exposures, lab content will be shifted to online until it is safe to return to the classroom.

Excessive absences without a verified and valid excuse will result in a lower grade up to the discretion of the instructor. Missed lab assignments can not be made up and there are no

alternative/extra credit assignments/opportunities. Students with legitimate absences will need to work with the instructor for an alternative assignment.

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/17783/pages/academic-integrity?module_item_id=883006)

page and then complete the [Syllabus Quiz](#)

(https://redwoods.instructure.com/courses/17783/quizzes/102920?module_item_id=883008) by Monday, January 22nd at midnight.

Information for this Class

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>) 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>).



Canvas Information

Please see [Online Orientation Letter](#) (https://redwoods.instructure.com/courses/17783/pages/biol-2-orientation-letter?module_item_id=883003) 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
-


Technology skills, requirements, and support

Please see [Online Orientation Letter](#) (https://redwoods.instructure.com/courses/17783/pages/biol-2-orientation-letter?module_item_id=883003) 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.
-

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/about-us/Home/CR-Police-Department)  (<https://www.redwoods.edu/about-us/Home/CR-Police-Department>).

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 [CR Police Department- Public Safety](https://www.redwoods.edu/about-us/Home/CR-Police-Department)  (<https://www.redwoods.edu/about-us/Home/CR-Police-Department>). 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.
-

Course Schedule





Each week new learning topics will be available in the course modules. Topics are arranged by lecture exam (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	Online Lecture	Online Lecture	Online Lecture Topic (OpenStax Textbook)	
	Begin Date	End Date		
	Tuesday	Monday		

1	January 16, 2024	January 22, 2024	Topic 1: Intro to Microbiology & Cell Theory <ul style="list-style-type: none"> • Chapter 1: An Invisible World ➞ (https://openstax.org/books/microbiology/pages/1-introduction) • Chapter 3: The Cell ➞ (https://openstax.org/books/microbiology/pages/3-introduction) 	Online Orientation and Lab: Intro to Micro Lab <ul style="list-style-type: none"> • EX 1-3: Media Preparation
2	January 23, 2024	January 29, 2024	Topic 2: Diversity of Life <ul style="list-style-type: none"> • Chapter 4: Prokaryotes ➞ (https://openstax.org/books/microbiology/pages/4-introduction) • Chapter 5: Eukaryotes ➞ (https://openstax.org/books/microbiology/pages/5-introduction) 	Lab: Micro Techniques <ul style="list-style-type: none"> • EX 1-4: Aseptic Technique • EX 1-5: Colony Isolation
3	January 30, 2024	February 5, 2024	Topic 3: Viruses <ul style="list-style-type: none"> • Chapter 6: Acellular Pathogens ➞ (https://openstax.org/books/microbiology/pages/6-introduction) 	Lab: Growth Patterns <ul style="list-style-type: none"> • EX 2-2: Colony Morphology • EX 2-3: Growth on Media • EX 2-4: Growth in Broth • Virus Activity
4	February 6, 2024	February 12, 2024	Topic 4: Microscopic World <ul style="list-style-type: none"> • Chapter 2: How We See the Invisible World ➞ (https://openstax.org/books/microbiology/pages/2-introduction) • Chapter 7: Microbial Biochemistry ➞ (https://openstax.org/books/microbiology/pages/7-introduction) 	Lab: Microscopy II <ul style="list-style-type: none"> • EX 3-1: Microscopy • EX 3-4: Simple Staining • EX 3-10: Motility Work
5	February 13, 2024	February 19, 2024	Topic 5: Metabolism <ul style="list-style-type: none"> • Chapters 8: Microbial Metabolism ➞ (https://openstax.org/books/microbiology/pages/8-introduction) 	Lab: Microscopy IV & Media <ul style="list-style-type: none"> • Unknowns

			introduction) Lecture Exam I (Online)	<ul style="list-style-type: none"> EX 3-6: Gram Stair Re-dos
6	February 20, 2024	February 26, 2024	Topic 6: Microbial Growth <ul style="list-style-type: none"> Chapter 9: Microbial Growth  https://openstax.org/books/microbiology/pages/9-introduction Chapter 10: Biochemistry of the Genome  https://openstax.org/books/microbiology/pages/10-introduction 	Lab: Environmental f <ul style="list-style-type: none"> EX 2-6: Fluid https://redwoods.ir/2-6-fluid-thioglycoll EX 2-7: Anaerobic EX 2-8: The Effect EX 2-9: The Effect
7	February 27, 2024	March 4, 2024	Topic 7: Genetics <ul style="list-style-type: none"> Chapter 11: Microbial Genetics  https://openstax.org/books/microbiology/pages/11-introduction Chapter 12: Biotechnology  https://openstax.org/books/microbiology/pages/12-introduction 	Lab: Differential Med <ul style="list-style-type: none"> EX 4-1: Phenylethy EX 4-3: Mannitol S EX 4-4: MacConke EX 4-5: Eosin and

8	March 5, 2024	March 11, 2024	<p>Topic 8: Treatment Against Microbes</p> <ul style="list-style-type: none"> • Chapter 13: Control of Microbial Growth  • Chapter 14: Antimicrobial Drugs  	<p>Lab: Selective Media</p> <ul style="list-style-type: none"> • EX 5-1: O-F Test • EX 5-2: Phenol Re • EX 5-3: Methyl Rec
9	March 12, 2024	March 18, 2024	Spring Break - No Classes	Spring Break - No Cl
10	March 19, 2024	March 25, 2024	<p>Topic 9: Treatment Against Microbes</p> <ul style="list-style-type: none"> • Chapter 15: Pathogenicity  • Chapter 16: Disease and Epidemiology  	<p>Lab: Selective Media</p> <ul style="list-style-type: none"> • EX 5-6: Nitrate Rec • EX 5-7: Citrate Tes • EX 5-8: Amino Acid https://redwoods.ir 5-8-amino-acid-dec Tests • EX 5-9: Deaminatic
11	March 26, 2024	April 1, 2024	<p>Topic 10: Innate Immunity</p> <ul style="list-style-type: none"> • Chapter 17: Innate Nonspecific Host Defenses  <p>Lecture Exam II (Online)</p>	<p>Lab: Selective Media</p> <ul style="list-style-type: none"> • EX 5-10: Amylase • EX 5-11: DNase Te • EX 5-12: Lipase Te • EX 5-13: Casease • EX 5-14: Gelatinas • EX 5-15: Urease T • EX 5-16: Bile Escu

12	April 2, 2024	April 8, 2024	Topic 11: Adaptive Immunity and Diseases <ul style="list-style-type: none"> • Chapter 18: Adaptive Specific Host Defenses  (https://openstax.org/books/microbiology/pages/18-introduction) • Chapter 19: Diseases of the Immune System  (https://openstax.org/books/microbiology/pages/19-introduction) 	Lab: Selective Media <ul style="list-style-type: none"> • EX 5-18: Sulfur-Inc • EX 5-19: Kligler Iro • EX 5-21: Hemolysi • EX 5-23: Coagulas • EX 5-24: Motility Te
13	April 9, 2024	April 15, 2024	Topic 12: Immune Response <ul style="list-style-type: none"> • Chapter 20: Analysis of Immune Response  (https://openstax.org/books/microbiology/pages/20-introduction) 	Lab: Bergey's Manua Lab: Antibiotics <ul style="list-style-type: none"> • EX 7-2: Kirby-Bauc • EX 9-1: Gram Neg • EX 9-2: Gram Posi • EX 9-3: Gram Posi • Flow charts • Dichotomous keys • Re-dos
14	April 16, 2024	April 22, 2024	Topic 13: Diseases by Organ System <ul style="list-style-type: none"> • Chapter 21: Skin and Eye Infections  (https://openstax.org/books/microbiology/pages/21-introduction) 	Lab: Bergey's Manua <ul style="list-style-type: none"> • EX 5-17: PYR Test • Flow charts • Dichotomous keys • Re-dos

			<ul style="list-style-type: none"> • Chapter 22: Respiratory System Infections  (https://openstax.org/books/microbiology/pages/22-introduction) 	<ul style="list-style-type: none"> • EX 7-2: Snyder Test • Agar Art Competition
15	April 23, 2024	April 29, 2024	<p>Topic 14: Diseases by Organ System</p> <ul style="list-style-type: none"> • Chapter 23: Urogenital System Infections  (https://openstax.org/books/microbiology/pages/23-introduction) • Chapter 24: Digestive System Infections  (https://openstax.org/books/microbiology/pages/24-introduction) 	<p>Lab: Parasite Cafe</p> <ul style="list-style-type: none"> • EX 3-3: Eukaryotic • Protozoan Parasite
16	April 30, 2024	May 6, 2024	<p>Topic 15: Diseases by Organ System</p> <ul style="list-style-type: none"> • Chapter 25: Circulatory and Lymphatic System Infections  (https://openstax.org/books/microbiology/pages/25-introduction) • Chapter 26: Nervous System Infections  (https://openstax.org/books/microbiology/pages/26-introduction) 	<p>Lab: Review</p> <p>Notebook Check III</p> <ul style="list-style-type: none"> • All labs for weeks 1-16

17	May 7, 2024	May 10, 2024	Final Lecture Exam <i>(online)</i>	No Lab Meeting
----	----------------	-----------------	--	-----------------------