
Term Information

Effective Term Autumn 2025

General Information

Course Bulletin Listing/Subject Area Biology
Fiscal Unit/Academic Org Introductory Biology - D0326
College/Academic Group Arts and Sciences
Level/Career Undergraduate
Course Number/Catalog 1111
Course Title Biological Foundations 1: Cells and Chemistry of Life
Transcript Abbreviation Biol Foundations 1
Course Description An introductory exploration of life's chemical and cellular foundations, including macromolecular and cellular structure and function, energetics, pathways, the nature of scientific endeavors, and metacognitive strategies. Includes a required weekly Peer Led Team Learning Workshop. Combined with Bio 1112, these courses will address content at similar depth and breadth as Bio 1113.
Semester Credit Hours/Units Fixed: 3

Offering Information

Length Of Course 14 Week, 12 Week, 8 Week
Flexibly Scheduled Course Never
Does any section of this course have a distance education component? No
Grading Basis Letter Grade
Repeatable No
Course Components Lecture, Workshop
Grade Roster Component Lecture
Credit Available by Exam No
Admission Condition Course No
Off Campus Never
Campus of Offering Columbus, Lima, Mansfield, Marion, Newark, Wooster

Prerequisites and Exclusions

Prerequisites/Corequisites Prereq or concurrent: Math 1075
Exclusions Not open to students with credit for 1113x
Electronically Enforced Yes

Cross-Listings

Cross-Listings

Subject/CIP Code

Subject/CIP Code 26.0101
Subsidy Level Baccalaureate Course
Intended Rank Freshman, Sophomore

Requirement/Elective Designation

The course is an elective (for this or other units) or is a service course for other units

Course Details

Course goals or learning objectives/outcomes

- describe the basic structure of atoms and how it leads to the formation of molecules.
- connect the structure of atoms and molecules to the function of biological macromolecules.
- describe electronegativity and its role in the types of bonds and interactions present within and between molecules
- define pH and buffers and explain their importance to cellular function and homeostasis.
- describe the properties of carbon and water and how they are necessary for life.
- describe the basic structural characteristics of the major classes of biological macromolecules (proteins, nucleic acids, carbohydrates, lipids).
- apply chemical principles to the analysis of the structure and function of macromolecules.
- explain the relationship between the structures of macromolecules and their general functions and biological importance.
- describe the structure and properties of the plasma membrane and its role in the cellular response to its environment (e.g., membrane transport, signal transduction).
- explain basic activities of the cell by relating structure and function of cellular components, organelles, and systems.
- compare and contrast prokaryotic, plant, and animal cells.
- outline representative mechanisms for how cells send, receive, and respond to signals.
- explain the forms of energy utilized in biological systems and the laws of thermodynamics that govern them.
- characterize enzymes, their functions, and the major mechanisms that control their activity.
- explain the transformations of energy and carbon involved in cellular respiration, fermentation, and photosynthesis (including orderly chemical transformations, the relevance of redox reactions, and electron/proton transport).
- describe the development and evaluation of scientific explanations of natural phenomena.
- apply biological concepts in the assessment of contemporary issues.
- reflect on ethical implications of emerging biotechnology.
- explain how evolution accounts for the unity and diversity of life.
- refer to primary literature articles using proper paraphrasing and citation (compare and contrast primary, secondary, etc).
- create properly formatted graphs, figures, and tables using data.
- analyze and interpret qualitative and quantitative data
- identify plagiarism and avoid plagiarizing when writing.
- evaluate the quality and accuracy of a written source.
- locate scholarly articles using electronic databases.
- distinguish between primary literature, secondary literature, and content created for mass media.
- determine effective study strategies to better prepare for assessments.
- evaluate the effectiveness of study strategies and modify them as needed.

Content Topic List

- Chemistry
- Cell structure and function
- cell communication
- energy utilization
- enzymes
- transformation of energy
- nature of science
- metacognition

Sought Concurrence

No

Attachments

- Biology 1111 Syllabus.pdf
(Syllabus. Owner: Andrews, Adam Lee)
- Biology 1111 - 1112 Requested Changes Memo.pdf: Summary of requested revisions
(Cover Letter. Owner: Andrews, Adam Lee)
- Proposal to Create Biology 1111 and 1112 20241203.docx: Full proposal
(Other Supporting Documentation. Owner: Andrews, Adam Lee)

Comments

- Please see Subcommittee feedback email sent 12/2/24. *(by Neff, Jennifer on 12/02/2024 02:00 PM)*

Workflow Information

Status	User(s)	Date/Time	Step
Submitted	Andrews, Adam Lee	10/25/2024 02:01 PM	Submitted for Approval
Approved	Kulesza, Amy Elizabeth	10/25/2024 02:18 PM	Unit Approval
Approved	Vankeerbergen, Bernadette Chantal	11/18/2024 10:21 AM	College Approval
Revision Requested	Neff, Jennifer	12/02/2024 02:00 PM	ASCCAO Approval
Submitted	Andrews, Adam Lee	12/03/2024 03:51 PM	Submitted for Approval
Approved	Kulesza, Amy Elizabeth	12/04/2024 08:21 AM	Unit Approval
Approved	Vankeerbergen, Bernadette Chantal	01/15/2025 04:27 AM	College Approval
Pending Approval	Jenkins, Mary Ellen Bigler Hanlin, Deborah Kay Hilty, Michael Neff, Jennifer Vankeerbergen, Bernadette Chantal Steele, Rachel Lea	01/15/2025 04:27 AM	ASCCAO Approval



3 December 2024

Dr. Hadad & Members of the NMS Panel,

The Center for Life Sciences Education thanks the Panel for their feedback on our recent course proposals to create Biology 1111 and 1112. At the request of the Panel, we have made the following modifications to the proposal and have uploaded revised documents:

- For both courses, the absence policy has been modified to address only critical expectations, making it more readable and streamlined.
- For both courses, the makeup policy requiring materials to be submitted within one week has been removed.
- For both courses, the statements for Disability Services and Diversity have been updated to reflect current language found on the College's website.
- For Biology 1112, the point discrepancy has been corrected.

The Panel requested clarification on two other points. Regarding the course prerequisites, the CLSE's team of academic advisors were actively engaged throughout this course development process. The proposed math prerequisites were at the recommendation of the advisors, from which the Faculty and Course Coordinators worked to ensure the content would be addressed appropriately for the expectations. It was the universal sentiment that the proposed minimal prerequisites would strike the balance for students to be successful in the courses while allowing students to begin their Biology courses as early as possible in their academic career.

The Panel also inquired about the consequences of a student transferring in credit for Biology 1111. In my experience as the Biology transfer credit coordinator, this would be an extraordinarily rare situation as the content of Biology 1111 alone would not resemble any typical 'Biology 1' course, and would thus fall far short of the threshold for equivalency. Were another institution to create a split version of *Biology 1* such as we are proposing, the content would likely be split at the same natural break point we have done with all of the biochemical topics addressed in Biology 1111 and the cell and molecular biology addressed in 1112. While we believe such a circumstance to be very rare, we have designed the content split to provide transfer students with the greatest probability of course equivalency.

We respectfully submit the course proposals for the Panel's reconsideration and are happy to address any future questions or concerns.

Sincerely,

Adam Andrews

Assistant Director for Curriculum & Instruction

Appendix A: Biology 1111 Syllabus



THE OHIO STATE UNIVERSITY

Biology 1111 *Biological Foundations 1: Cells and Chemistry of Life* Autumn 2025 – 3 Credit Hours

Lecturer:

Email:

Office:

Student Hours:

other times scheduled by appointment

Course Coordinator:

Center for Life Sciences Education

Email:

Office:

Phone:

Class Meeting Schedule:

Lecture: Twice Weekly for 55 minutes

PLTL Workshop: Once weekly for 80 minutes; *consult your BuckeyeLink schedule for specific time and day*

Prerequisites:

Prereq or concurrent: Math 1075. Not open to students with credit for 1113x

Required Course Materials:

- Biological Science (8th Edition), 2024, by Freeman et al. ISBN: 978-0138224028.

Credit Hours and Work Expectation:

This is a 3-credit-hour course. According to Ohio State policy, students should expect around 3 hours per week of time spent on direct instruction in addition to 6 hours of homework to receive a grade of C average. [ASC Honors](#) provides an excellent guide to scheduling and study expectations.

Course Description:

An introductory exploration of life's chemical and cellular foundations, including macromolecular and cellular structure and function, energetics, pathways, the nature of scientific endeavors, and metacognitive strategies. Includes a required weekly Peer Led Team Learning Workshop. Intended for student Majoring in STEM fields. Combined with Bio 1112, these courses will address content at similar depth and breadth as Bio 1113x.

Course Learning Outcomes:

Successful students will be able to...

1. The Chemistry of Life
 - a. describe the basic structure of atoms and how it leads to the formation of molecules.
 - b. connect the structure of atoms and molecules to the function of biological macromolecules.
 - c. describe electronegativity and its role in the types of bonds and interactions present within and between molecules.
 - d. define pH and buffers and explain their importance to cellular function and homeostasis.
 - e. describe the properties of carbon and water and how they are necessary for life.

- f. describe the basic structural characteristics of the major classes of biological macromolecules (proteins, nucleic acids, carbohydrates, lipids).
 - g. apply chemical principles to the analysis of the structure and function of macromolecules.
 - h. explain the relationship between the structures of macromolecules and their general functions and biological importance.
2. The Cell
 - a. describe the structure and properties of the plasma membrane and its role in the cellular response to its environment (e.g., membrane transport, signal transduction).
 - b. explain basic activities of the cell by relating structure and function of cellular components, organelles, and systems.
 - c. compare and contrast prokaryotic, plant, and animal cells.
 - d. outline representative mechanisms for how cells send, receive, and respond to signals.
 - e. explain the forms of energy utilized in biological systems and the laws of thermodynamics that govern them.
 - f. characterize enzymes, their functions, and the major mechanisms that control their activity.
 - g. explain the transformations of energy and carbon involved in cellular respiration, fermentation, and photosynthesis (including orderly chemical transformations, the relevance of redox reactions, and electron/proton transport).
 3. Nature of biological science and society
 - a. describe the development and evaluation of scientific explanations of natural phenomena.
 - b. apply biological concepts in the assessment of contemporary issues.
 - c. reflect on ethical implications of emerging biotechnology.
 - d. explain how evolution accounts for the unity and diversity of life.
 4. Skills & Competencies
 - a. Scientific Communication
 - i. refer to primary literature articles using proper paraphrasing and citation (compare and contrast primary, secondary, etc).
 - ii. create properly formatted graphs, figures, and tables using data.
 - iii. analyze and interpret qualitative and quantitative data
 - iv. identify plagiarism and avoid plagiarizing when writing.
 - b. Literature
 - i. evaluate the quality and accuracy of a written source.
 - ii. locate scholarly articles using electronic databases.
 - iii. distinguish between primary literature, secondary literature, and content created for mass media.
 - c. Metacognition
 - i. determine effective study strategies to better prepare for assessments.
 - ii. evaluate the effectiveness of study strategies and modify them as needed.

Grading and Evaluation:

Graded assignments may come in three forms, and students should note the expectations for each in the descriptions of our class assignments below:

- **Independent Work (👤)**: Strictly non-collaborative, original-individual work. You may discuss this assignment only with your instructor. Discussions with other individuals, either in person or electronically, are strictly prohibited and constitute academic misconduct.
- **Required Collaboration (👥)**: An explicit expectation for collaboration among students either in-class or outside (i.e., group work).
- **Optional Collaboration (👥❤️)**: Students are permitted, but not required, to discuss the assignment or ideas with each other. However, all submitted work must be one's original and individual creation.

Assignment	Points	Assignment Type
Midterm Exam	100	↑
Final Exam	100	↑
Quizzes (4 @ 25 pts)	100	↑
Mastering Biology Homework	100	↑
Top Hat	75	🗨️
In-class Activities	50	🗨️
SALG	5	↑
PLTL Workshops (10 @ 10pts)	100	👥
Total Points Possible	630	

Exams (200 points):

There will be one midterm exam during class at the midpoint of the semester and one final exam during finals week following the semester. The final exam will only cover material following the midterm exam. Material will be drawn from the lectures, lecture activities, Mastering Biology assignments, and Quizzes. All questions will be multiple-choice style and will focus on application of the course material.

Quizzes (100 points):

There will be four 25-point quizzes evenly distributed throughout the semester, with the purpose of providing students practice opportunities for the exams. Quizzes will be taken outside of class but must be completed individually. Quizzes will be available over a three-day period, but each quiz is timed and must be completed in one session. Questions will be short-answer style and will focus on application of the course material.

Mastering Biology homework (100 points):

Weekly homework assignments will be available within Mastering Biology. Each weekly assignment will become available one week in advance and must be completed by Sunday evening at 11:59PM (see lecture schedule for exact dates). Mastering Biology assignments are designed to reinforce material covered in lecture throughout the week and may require you to apply and synthesize material learned throughout previous weeks. Most assignments will take 45-60 minutes to complete and can be worked on incrementally. Plan in advance— loss of power or internet access is not an excuse for a makeup or extension. Additional optional Mastering Biology assignments (ungraded) will also be available throughout the semester. The percentage of points you earn within Mastering Biology throughout the semester will be converted to course points at the end of the semester. (e.g. 100% in Mastering = 100 points).

Top Hat (75 points):

Top Hat questions will be administered in every lecture throughout the semester. Questions will typically be worth 1 point each, graded for participation, correctness, or a combination of both. Proper registration is required prior to the second lecture of the semester. At least 90 total questions will be administered, providing ample leeway in earning the total points. As such, no make-up opportunities will be available for missed lectures or nonfunctional technology. Points will be updated on Carmen at the end of the semester. Prior to that, current points can always be viewed in the Top Hat gradebook.

In-class Activities (50 points):

During most lectures throughout the semester, we will complete various additional learning activities that either provide extra practice on lecture material or are designed to enhance scientific literacy.

Selected activities will be submitted to Carmen and graded for participation, correctness, or a combination of both. All graded activities must be submitted to Carmen individually, but you may work on them with other students in the class. You will be given until 11:59PM the day the activity is assigned to complete it and turn it in. No make-up opportunities will be available for missed lecture activities, but more than 50 total points will be available throughout the semester.

PLTL Workshops (100 points):

Each week in PLTL, you will work with 7-10 other students in your course to solve carefully designed biology problems with the help of a peer leader. Your peer leader is an undergraduate student who previously excelled in Biology and has been trained to facilitate collaborative problem-solving. The work you do in PLTL each week will be integrated with your lecture activities and vice versa.

PLTL Learning Outcomes: In addition to achieving the Biology 1111 learning outcomes in PLTL, students in PLTL can expect to:

1. Develop and strengthen a suite of logical problem-solving skills including scientific argumentation, metacognitive thinking, and creative thinking
2. Develop and strengthen skills necessary for success in the sciences such as communication, collaboration, and conflict resolution
3. Learn to more accurately self-evaluate their course content mastery and learning achievements
4. Learn to effectively identify and achieve personalized learning goals

In total, there are 10 PLTL workshops throughout the semester. Each workshop consists of 3 activities, a pre-workshop, workshop, and post-workshop activities. In preparation for PLTL workshops, there is an assignment “Introduction to Peer-led Team Learning (PLTL)” (worth 10 points) to be completed by the end of week 1.

PLTL Grading:

- Pre-workshop activities (2.5 pts each) → Due before the start of workshop. These should be submitted individually to Carmen.
- Workshop activities (5 pts each) → Completed as a group during the PLTL workshop session. Students will submit their answer sheets to Carmen at the end of their workshop. Note: If you are more than 20 minutes late to the workshop, you will not be permitted to attend and will be marked absent.
- Post-workshop activities (2.5 pts each) → Due by Sunday at 11:59 pm following the workshop and submitted individually to Carmen. This activity includes reflecting on the knowledge gained in the workshop, identifying knowledge still desired, and an extension of the workshop material. **Note: You must attend the workshop in order to earn credit for completing the post-workshop assignment.**
- Attendance to PLTL workshops is REQUIRED.
 - If you miss more than 2 unexcused workshops, then your final grade will drop by 1/3rd of a letter grade. Example: Final grade will change from B- to C+.
 - If you miss 5 or more unexcused workshops, then your final grade will drop by 2/3rds of a letter grade. Example: Final grade will change from B- to C.
- We will automatically drop the lowest score for each type of assignment (pre-workshop, workshop, and post-workshop).

SALG (5 points):

At the end of the course, 5 points will be assigned based on participation in a survey, the Student Assessment of Learning Gains (SALG). Grades on the SALG will be based solely on completion.

Your Final Grade:

Your final grade will be based on the percentage of the 630 points that you earn during the course of the semester as described above. Please note that we do not grade the course on a curve and Carmen does not round averages up to the next nearest percentage point, so 92.11% and 92.97% both earn the grade of A-. Final letter grades will be determined by the grade scale below:

Grade Scale:

A	A-	B+	B	B-	C+	C	C-	D+	D	E
100 – 93.0%	92.9 – 90.0%	89.9 – 87.0%	86.9 – 83.0%	82.9 – 80.0%	79.9 – 77.0%	76.9 – 73.0%	72.9 – 70.0%	69.9 – 67.0%	66.9 – 60.0%	59.9 – 0%

Posting of Grades:

All grades will be posted on Carmen. After grades are posted you have 10 working days to challenge any grade or inquire regarding an unposted or missing grade. **After that time, grades are final.** To challenge or inquire about a missing grade, contact your laboratory instructor.

****IMPORTANT****

Make sure that all of your grades are properly posted on Carmen as you receive them. Challenges about grades, particularly after the end of the semester, will not be entertained after the 10-day grace period.

Late Assignments:

All assignments are due on the date and time prescribed in the course schedule. Late work will not be accepted except in rare (and documentable) circumstances.

Absences:

Exams:

If you are too ill to take an exam or must miss for another legitimate unscheduled reason, you must contact the Course Coordinator within 24 hours of the exam. Make up exams will be given only to students who produce, at the make up or before, documentation of a legitimate reason (at the time of the absence) for missing the exam. Valid excuses are limited to problems that are beyond the student's control, such as military duty, intercollegiate athletic or academic activities, funerals, etc. Medical excuses will be considered only if you have been treated by a medical professional on the day of the exam (excuses from the student health center website will not be accepted). Lack of transportation, loss of electricity, travel plans, etc. are not considered valid excuses. If you anticipate having to miss an exam due to attendance at a university sanctioned event or other qualifying conflict, you must contact the Course Coordinator at least one week in advance of the exam.

If you have no documentation to support your absence, or your absence from the exam is not for an excused reason, you will still be offered the opportunity for a makeup exam, with a 25% overall deduction on your exam score if arrangements are made within 24 hours of the original exam. The format of makeup exams is at the discretion of the instructors.

Note: Check the date and time of the final examination now and make sure that this time does not conflict with your future plans. No early final exams will be given. The only makeup exam will be held on Wednesday, December xx at 9:00 a.m. and is available only in emergency situations and with prior approval of the Course Coordinator.

Make-Up Workshops and Lecture Activities:

Both the lecture and workshop are integral parts of this course. If you miss a class, you must contact your instructor (lecture or workshop, as appropriate) within 48 hours of their missed class in order to be eligible to complete a make-up assignment. All make-up work requires a valid written excuse from a doctor, therapist, athletic coach, or other person involved with the absence (preferably before the event

occurs, if it's a planned absence). We will consider one absence for every student to be excused without documentation, however students must contact their instructor within **48 hours** of their missed workshop to receive the make-up exercise. Therefore, it is essential that you contact your instructor immediately if you miss a workshop, or if you know in advance that you cannot attend class on a specific date.

Disability Services:

The university strives to maintain a healthy and accessible environment to support student learning in and out of the classroom. If you anticipate or experience academic barriers based on your disability (including mental health, chronic, or temporary medical conditions), please let the Course Coordinator know immediately so that we can privately discuss options. To establish reasonable accommodations, we may request that you register with Student Life Disability Services. After registration, make arrangements with the Course Coordinator as soon as possible to discuss your accommodations so that they may be implemented in a timely fashion. Only the course coordinator is authorized to complete SLDS accommodations. This will help us ensure that your individual needs will be met appropriately and fairly.

If you are ill and need to miss class, including if you are staying home and away from others while experiencing symptoms of a viral infection or fever, please let your instructor know immediately. In cases where illness interacts with an underlying medical condition, please consult with Student Life Disability Services to request reasonable accommodations. You can connect with them at slds@osu.edu; 614-292-3307; or slds.osu.edu.

Religious Accommodations:

Ohio State has had a longstanding practice of making reasonable academic accommodations for students' religious beliefs and practices in accordance with applicable law. In 2023, Ohio State updated its practice to align with new state legislation. Under this new provision, students must be in early communication with their instructors regarding any known accommodation requests for religious beliefs and practices, providing notice of specific dates for which they request alternative accommodations within 14 days after the first instructional

day of the course. Instructors in turn shall not question the sincerity of a student's religious or spiritual belief system in reviewing such requests and shall keep requests for accommodations confidential.

With sufficient notice, instructors will provide students with reasonable alternative accommodations with regard to examinations and other academic requirements with respect to students' sincerely held religious beliefs and practices by allowing up to three absences each semester for the student to attend or participate in religious activities. Examples of religious accommodations can include, but are not limited to, rescheduling an exam, altering the time of a student's presentation, allowing make-up assignments to substitute for missed class work, or flexibility in due dates or research responsibilities. If concerns arise about a requested accommodation, instructors are to consult their tenure initiating unit head for assistance.

A student's request for time off shall be provided if the student's sincerely held religious belief or practice severely affects the student's ability to take an exam or meet an academic requirement and the student has notified their instructor, in writing during the first 14 days after the course begins, of the date of each absence. Although students are required to provide notice within the first 14 days after a course begins, instructors are strongly encouraged to work with the student to provide a reasonable accommodation if a request is made outside the notice period. A student may not be penalized for an absence approved under this policy.

If students have questions or disputes related to academic accommodations, they should contact their course instructor, and then their department or college office. For questions or to report discrimination or harassment based on religion, individuals should contact the [Office of Institutional Equity](#).

Policy: [Religious Holidays, Holy Days and Observances](#)

Weather or Other Short-Term Closing:

Should in-person classes be canceled, students will be notified as to which alternative methods of teaching will be offered to ensure continuity of instruction for this class. Communication will be via Carmen announcements and course-wide email.

Section Changes:

All section changes and adds are completed by the course coordinator. Due to the need to keep up-to-minute availability of seats in each workshop, the lecturer and workshop instructors are unable to sign any permission forms.

Instructor Feedback and Response Expectations

- **Email response:** The CLSE's expectation of instructors is that emails will be responded to within one business day. If your email is sent during the evening or over the weekend, you may not receive a response until the next business day.
- **Class announcements:** I will send important class-wide messages through the Announcements tool in Carmen. Please check [your notification preferences](#) (go.osu.edu/canvas-notifications) to ensure you receive these messages.
- **Graded assignments:** Assignments will be graded and returned to you within one week after they were due. All scores are posted on Carmen no later than the day the graded assignment is returned.

Course Technology

For help with your password, university e-mail, Carmen, or any other technology issues, questions, or requests, contact the OSU IT Service Desk. Standard support hours are available at <https://ocio.osu.edu/help/hours>, and support for urgent issues is available 24x7.

- **Self-Service and Chat support:** <http://ocio.osu.edu/selfservice>
- **Phone:** 614-688-HELP (4357)
- **Email:** 8help@osu.edu

- **TDD:** 614-688-8743

Carmen

- Carmen, Ohio State's Learning Management System, will be used to host materials and activities throughout this course. To access Carmen, visit [Carmen.osu.edu](https://carmen.osu.edu). Log in to Carmen using your name.# and password. If you have not setup a name.# and password, visit my.osu.edu.
- Help guides on the use of Carmen can be found at <https://resourcecenter.odde.osu.edu/carmen>
- **This online course requires use of Carmen (Ohio State's learning management system) and other online communication and multimedia tools. If you need additional services to use these technologies, please request accommodations with your instructor.**
- [Carmen accessibility](#)

CarmenZoom

- Office hours will be held through Ohio State's conferencing platform, CarmenZoom. A separate guide to accessing CarmenZoom and our office hours is posted on the course Carmen page under Files.
- Students may use the audio and video functions if a webcam and microphone are available. If not, there is still a chat function within CarmenZoom for the student to live chat with the professor or TA in the virtual office hours room.
- [Carmen Zoom](#) help guide

TurnItIn

- Students at The Ohio State University are accountable for the integrity of the work they submit. Therefore, you should be familiar with the guidelines provided by the [Committee on Academic Misconduct \(COAM\)](#) and [Section A of OSU's Code of Student Conduct](#) in order to meet the academic expectations concerning appropriate documentation of sources. In addition, OSU has made TurnItIn, a learning tool and plagiarism prevention system, available to instructors. For this class, you will submit your papers to TurnItIn from Carmen. When grading your work, I will interpret the originality report, following [Section A of OSU's Code of Student Conduct](#) as appropriate. For more information about TurnItIn, please see [the vendor's guide for students](#). Note that submitted final papers become part of the OSU database.
- Please know that I view TurnItIn first and foremost as a teaching tool to make you a better writer. You will see in your individual originality reports exactly what the instructors see. We WANT you to look at this report as soon as you submit your assignments. If you see an issue, please correct it right away, before we start grading the assignment. You can resubmit without penalty as many times as you want prior to the established due date for any assignment. After the due date, the late policy is in effect.

TopHat

- TopHat is a web-based response system that allows students to use their own devices provide responses in the classroom. This course uses Top Hat to promote active engagement, allow for synchronous feedback, and monitor attendance.
- [TopHat](#) help guide

Discussion and Communication Guidelines

The following are expectations for how we should communicate as a class. Above all, please remember to be respectful and thoughtful.

- **Tone and civility:** Let's maintain a supportive learning community where everyone feels safe and where people can disagree amicably. Remember that sarcasm doesn't always come across online and is not always appreciated in-person. The instructional team work very hard to provide a positive learning experience. Please keep this in mind and remain civilized and respectful in your class communications.
- **Citing your sources:** When we have academic discussions, please cite your sources to back up what you say.

Issue Resolution:

The CLSE believes that student concerns are usually most effectively addressed by the staff closest to the situation. Therefore, students are ordinarily expected to address issues or concerns first with their instructors. If the issue cannot be resolved by your instructor, or for some reason you feel that you absolutely cannot address your concern with your instructor, please feel free to contact the Course Coordinator or Assistant Director Adam Andrews (andrews.171@osu.edu).

Building Emergency Action Plan:

Each building on campus has a Building Emergency Action Plan (BEAP) outlining that specific building's specific procedures to be followed in the event of a range of emergency situations, including fire, weather, terrorism, chemical spills, etc. It is the role of every Buckeye to help keep each other safe and to be aware of these procedures. You can find all of the campus BEAPs at <https://dps.osu.edu/beap>.

Lyft Ride Smart:

Lyft Ride Smart at Ohio State offers eligible students discounted rides, inside the university-designated [service area](#), from 7 p.m. to 7 a.m. Prices may be impacted by distance, traffic, time of day, special events and prime time surcharges. To qualify for program discounts, users must select "shared ride" when booking in the Lyft app. For more information, visit: <https://ttm.osu.edu/ride-smart>.

Mental Health:

As a student you may experience a range of issues that can cause barriers to learning, such as strained relationships, increased anxiety, alcohol/drug problems, feeling down, difficulty concentrating and/or lack of motivation. These mental health concerns or stressful events may lead to diminished academic performance or reduce a student's ability to participate in daily activities. The Ohio State University offers services to assist you with addressing these and other concerns you may be experiencing. If you or someone you know are suffering from any of the aforementioned conditions, you can learn more about the broad range of confidential mental health services available on campus via the Office of Student Life's Counseling and Consultation Service (CCS) by visiting ccs.osu.edu or calling 614-292-5766. CCS is located on the 4th Floor of the Younklin Success Center and 10th Floor of Lincoln Tower. You can reach an on call counselor when CCS is closed at 614-292-5766 and 24 hour emergency help is also available 24/7 by dialing 988 to reach the Suicide and Crisis Lifeline.

Title IX:

Title IX makes it clear that violence and harassment based on sex and gender are Civil Rights offenses subject to the same kinds of accountability and the same kinds of support applied to offenses against other protected categories (e.g., race). If you or someone you know has been sexually harassed or assaulted, you may find the appropriate resources at <http://titleix.osu.edu> or by contacting the Ohio State Title IX Coordinator at titleix@osu.edu.

Diversity:

The Ohio State University affirms the importance and value of diversity of people and ideas. We believe in creating equitable research opportunities for all students and to providing programs and curricula that allow our students to understand critical societal challenges from diverse perspectives and aspire to use research to promote sustainable solutions for all. We are committed to maintaining an inclusive community that recognizes and values the inherent worth and dignity of every person; fosters sensitivity, understanding, and mutual respect among all members; and encourages each individual to strive to reach their own potential. The Ohio State University does not discriminate on the basis of age, ancestry, color, disability, gender identity or expression, genetic information, HIV/AIDS status, military status, national origin, race, religion, sex, gender, sexual orientation, pregnancy, protected veteran status, or any other bases under the law, in its activities, academic programs, admission, and employment. (To learn more about diversity, equity, and inclusion and for opportunities to get involved, please visit: <https://odi.osu.edu/> or <https://cbssc.osu.edu>)

Academic Misconduct:

It is the responsibility of the Committee on Academic Misconduct to investigate or establish procedures for the investigation of all reported cases of student academic misconduct. The term “academic misconduct” includes all forms of student academic misconduct wherever committed, illustrated by, but not limited to, cases of plagiarism and dishonest practices in connection with examinations. Instructors report all instances of alleged academic misconduct to the committee (Faculty Rule 3335-5-487). For additional information, see the Code of Student Conduct <http://studentlife.osu.edu/csc/>. We will adhere to this policy.

- Unless otherwise specified for a particular assignment, all submitted work should be a student’s own unique effort. Collaborative efforts are not permitted unless expressly sanctioned for a particular assignment.
- Unless otherwise specified for a particular assignment, use of AI-generated materials for course submissions is not permitted.
- Reusing past work: In general, you are prohibited in university courses from turning in work from a past class to your current class, even if you modify it. If you want to build on past research or revisit a topic you’ve explored in previous courses, please discuss the situation with me.
- Using others’ verbatim words without the use of quotation marks *and* citation is plagiarism. Paraphrased work requires citation to denote the use of others’ ideas. Copying other’s words without quotation while using citations is still considered plagiarism.
- Use of any technology during a quiz or exam (including but not limited to cell phones, smart watches, headphones, electronic dictionaries, etc.) is strictly prohibited.

Copyrighted Class Materials:

© The Instructor’s lectures and all course materials, including power point presentations, tests, outlines, assignments, and similar materials, are protected by copyright. You may take notes and make copies of course materials for your own use. You may not and may not allow others to reproduce or distribute lecture notes and course materials publicly whether or not a fee is charged without the express written consent of the course instructor or course coordinator.

Course Schedule: Autumn 2025

Schedule and assignments subject to change with as much advance notice as possible

Week	Lecture Topic	PLTL Workshop	Assignments Due
1	Course Intro and Ch1 – Biology the Study of Life	None	
2	Ch1 (cont.) and Ch2 – Chemistry of Atoms and Bonding and Properties of Water	Intro to PLTL & Metacognition	HW1 due Sunday
3	Ch2 – Chemical Reactions and Biological Molecules	Scientific Method	HW2 due Sunday
4	Ch3 – Protein Structure and Function	Biochemistry/Molecules	Quiz 1 (Ch1-3) open Tues-Fri HW3 due Sunday
5	Ch4 – Nucleic Acid Structure and Function	RNA World	HW4 due Sunday
6	Ch5 – Carbohydrate Structure and Function	Macromolecules in Food	HW5 due Sunday
7	Ch6 – Lipid Structure and Function and the Cell Membrane	Exam Review	Quiz 2 (Ch4-6) open Tues-Fri HW6 due Sunday
8	Ch6 (cont.) and Midterm Exam (Chapters 1-6)	None	HW7 due Sunday
9	Ch7 – Cell Parts and Functions	Exam Wrapper & Metacognition	
10	Ch7 – Cell Systems	Cells and Organelles Pt1	HW8 due Sunday
11	Ch11 – Cell Signaling	Cells and Organelles Pt2	HW9 due Sunday
12	Ch8 – Energy and Enzymes	Cell Signaling	Quiz 3 (Ch7,11) open Tues-Fri

			HW10 due Sunday
13	Ch9 - Cellular Respiration	Cell Respiration	HW11 due Sunday
14	Ch9 (cont.) and Ch10 - Photosynthesis	Photosynthesis	
15	Ch10 (cont.)	Exam Review	Quiz 4 (Ch 8-10) open Tues-Fri HW12 due Sunday
Finals	Final Exam		