

# Biology 1114 – General Biology Syllabus Cover Sheet

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## BIO 1114 - General Biology

This is an introduction to the life sciences as a course to fulfill the general education requirement for non-biology majors. The topics include an introduction to the fundamental principles of biology, the scientific method, cell structure and organization, biological molecules and metabolism, the levels of biological organization and systematics, plant and animal systems, Mendelian genetics, heredity, evolution, and ecology. This course does not have an accompanying laboratory session and does not count towards a B.S. degree in Biology.

**Note on University Life Sciences Lab:** To take BIO 1211 (University Life Sciences Laboratory), students are required to have taken, or are concurrently enrolled, in the BIO 1114 (General Biology Lecture) course.

## BIO 1114 - Objectives of the Course

- To promote science literacy, critical thinking, and the role of science in society through an understanding of the fundamental principles of biology.
- To encourage the student to use the scientific method for problem solving and relate science to everyday life.
- To give students an appreciation for the diversity of life.
- To provide basic knowledge about the structure and function of living organisms.
- To increase awareness of the impacts of human activities on the biosphere.

## BIO 1114 - Student Learning Outcomes (SLOs)

- Identify the properties of life.
- Apply the scientific methodology to the study of life and natural phenomena.
- Explain the biochemical processes of life.
- Identify evolutionary processes and supporting evidence.
- Categorize the hierarchy of life.
- Apply biological concepts to societal issues.

## BIO 1114 - Transformative Learning (Central Six)

1. Discipline Knowledge: General Biology provides you with an introduction to life around and within you.
2. Leadership: General Biology encourages you to work as guided by the core values of character, civility, and community in a cooperative manner in class and small group settings to learn about stewardship of natural resources and yourself.
3. Research, Scholarly and Creative Activities: General Biology contributes to this theme by helping you learn what scientists do and the scientific method.
4. Service Learning and Civic Engagement: In General Biology, you learn biological concepts related to the world and you will be encouraged to collaborate with student organizations and events to lend a hand in your respective community to help make this a better and sustainable world.
5. Global and Cultural Competencies: During lectures and outside assignments you will gain insight into the diversity of life in the world around you as well as some of the major conservation crises facing all of us. This prepares you to communicate effectively in a complex world, to function in diverse environments, to adapt to a continuously changing global society, and to be a lifelong learner who is aware of the world.
6. Health and Wellness: With vitality and meaning. General Biology introduces you to well-being by discussing diseases that society face.



<u>Date</u>	<u>Lecture topic</u>	<u>Lecture Number</u>
<b>October (continued)</b>		
14 M	Viruses, monerans, protistans, fungi, plants	Lectures <a href="#">20</a> and <a href="#">21</a>
16 W	Plant morphology and anatomy	Lectures <a href="#">22</a> and <a href="#">23</a> <a href="#">Class Project</a>
21 M	Plant nutrition and transport	Lecture <a href="#">24</a>
23 W	Additional exam material, animal diversity	Lecture <a href="#">25</a>
28 M	<b>EXAM III</b> , animal diversity	Lecture <a href="#">25</a>
30 W	Human evolution, tissues, systems	Lectures <a href="#">26</a> and <a href="#">27</a>
<b>November</b>		
4 M	Nervous and endocrine systems	Lectures <a href="#">28</a> and <a href="#">29</a>
6 W	Circulation, immunity, respiration	Lectures <a href="#">31</a> and <a href="#">32</a>
11 M	Respiration, digestion, reproduction	Lectures <a href="#">32</a> , <a href="#">33</a> , and <a href="#">34</a>
13 W	Human reproduction and development	Lecture <a href="#">34</a>
18 M	<b>EXAM IV</b> , population ecology	Lecture <a href="#">35</a>
20 W	Community interactions, ecosystems	Lectures <a href="#">36</a> and <a href="#">37</a>
25 M	Biosphere, human impact	Lecture <a href="#">38</a>
27 W	<b>Happy Thanksgiving!</b>	
<b>December</b>		
2 M	Animal and social behavior	Lecture <a href="#">39</a>
4 W	Additional exam material	
9-13	<b>FINAL EXAMINATIONS</b>	

The Final Exam is scheduled for Wednesday, 11 December 2024 at 11:00 AM to 12:50 PM.

### The Central Six

At the University of Central Oklahoma, we are guided by the mission of helping students learn by providing transformative experiences so that they may become productive, creative, ethical and engaged citizens and leaders contributing to the intellectual, cultural, economic and social advancement of the communities they serve. Transformative learning is a holistic process that places students at the center of their own active and reflective learning experiences. A student's major field is central to the learning experience and is a vital part of the "[Central Six](#)." All students will be transformed with Discipline Knowledge, Leadership, Problem Solving (Research, Scholarly and Creative Activities), Service Learning and Civic Engagement, Global and Cultural Competencies, and Health and Wellness.

# BIOLOGY 1114 - GENERAL BIOLOGY

Fall 2024 - CRN 10759 • Instructor - Dr. Jim Bidlack  
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*Avoid Scheduling Office Visits Just Before Class*

**Textbook:** Houtman, A., Scudellari, M., and Malone, E. 2024. Biology Now (with Physiology). 4<sup>th</sup> Edition. W. W. Norton & Company, Inc. New York, NY, USA.

**Attendance:** Students are expected to attend, learn, and take notes in all classes. At least three hours of study time should be devoted to each hour of class before and/or after lecture.

**Grading:** An approximate breakdown of points for the course is as follows:

4 lecture exams @ 100 points each	400
1 final exam @ 100 points	100
Writing assignment @ 50 points	50
Creative project @ 50 points	50

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<b>TOTAL POSSIBLE POINTS</b>	<b>600</b>
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Grading scale	Grade	Points needed
90 - 100% of total possible points	A	540
80 - 89% of total possible points	B	480
70 - 79% of total possible points	C	420
60 - 69% of total possible points	D	360
Below 60% of total possible points	F	-

**Exam material:** At least half of the exam material will come directly from lecture. Other questions may come from readings in the text, end-of-the-chapter questions, or combinations thereof. For best performance, read the assigned text before attending lecture and review lecture notes after each class. Study your notes carefully and review the major topics provided in the text prior to each exam. Sample exams are available at <https://bidlack.net/> or <https://bidlack.org/> and on reserve in the Max Chambers Library. These sample exams should be used as a study guide and not as the sole source for exam preparation.

**Exams:** All exams will consist mostly of multiple-choice, matching, true-false, short answer, and short essay questions, unless specified otherwise. All exams count in determining the final grade. Make-up exams will be given only in *extenuating* circumstances and will usually consist of long essay questions. **WRITTEN DOCUMENTATION FROM YOUR PHYSICIAN OR UNIVERSITY OFFICIAL MUST BE PROVIDED TO BE CONSIDERED FOR A MAKE-UP EXAM.**

**Cheating:** All work should be that of the student alone. No communication, notes, or wireless devices are permitted during any exam. If the instructor determines that a student has cheated on an exam or any assignment, the student will receive no credit for that exam or assignment and the student's name will be reported to the proper authorities.

For additional student information that accompanies this syllabus, go to the link on the Internet at:

<https://www.uco.edu/academic-affairs/files/aa-forms/StudentInfoSheet.pdf>