

**Syllabus:** Principles of Biology II for Science Majors

**Course Number:** BIOL 1407

**Semester & Year:** Spring

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Office Hours: By Appointment

## Textbook Information

- [Principles of Life. Hillis, Sadava, Heller and Price 1<sup>st</sup> ed.\(2012\) Sinauer Assoc Inc and W.H. Freeman and Co. ISBN 978-1-4292-5721-3](#) (required)
- **Biology 1ed. OpenStax** Rice Univ. <https://openstax.org/details/biology>

## Student Learning Outcomes for the Course

At the conclusion of the **lecture portion** of this course students should be able to:

- 1 Describe modern evolutionary synthesis, natural selection, population genetics, micro and macroevolution, and speciation.
- 2 Describe phylogenetic relationships and classification schemes.
- 3 Identify the major phyla of life with an emphasis on plants and animals, including the basis for classification, structural and physiological adaptations, evolutionary history, and ecological significance.
- 4 Describe basic animal physiology and homeostasis as maintained by organ systems.
- 5 Compare different sexual and asexual life cycles noting their adaptive advantages.
- 6 Illustrate the relationship between major geologic change, extinctions, and evolutionary trends.
- 7 Demonstrate an understanding of genomic organization and molecular genetics including recombinant DNA biotechnology, differential gene expression and development.

## Student Requirements for Completion of the Course

### Lecture Topics/ Exams - Biology 1307 Spring 2017

Principles of Biology 1 ed (Optional / Recommended Text)	Biology 1ed. OpenStax (Required FREE Test)
Chapter 13: Biotechnology	Chapter 17 Biotechnology and Genomics
Chapter 14: Genes Development and Evolution	Chapter 18 Evolution and the Origin of Species
Chapter 15: Mechanisms of Evolution	Chapter 19 The Evolution of Populations
<b>EXAM I (13, 14, 15)</b>	
Chapter 17: Speciation	Chapter 19 The Evolution of Populations

Chapter 18: The History of Life on Earth	Chapter 20 Phylogenies and the History of Life
Chapter 19: Bacteria, Archaea and Viruses	Chapter 22 Prokaryotes: Bacteria and Archaea Chapter 21 Viruses
<b><u>EXAM II (17, 18 &amp; 19)</u></b>	
Chapter 20: The Origin and Diversification of Eukaryotes	Chapter 23 Protists
Chapter 21: The Evolution of Plants	Chapter 25 Seedless Plants Chapter 26 Seed Plants
<b><u>EXAM III (20, 21)</u></b>	
Chapter 22: The Evolution and Diversity of Fungi	Chapter 24 Fungi
Chapter 23: Animal Origins and Diversity	Chapter 27 Introduction to Animal Diversity Chapter 28 Invertebrates Chapter 29 Vertebrates
<b><u>EXAM IV (22, 23)</u></b>	
<b><u>FINAL EXAM</u></b> (Comprehensive) Emphasis on Student Learning Guide Questions (all chapters covered during the course) including all homework quiz questions for all chapters and selected essay questions from Exams I, II, III and IV.	

### Student Assessment (EXAMS)

Four (4) lecture exams will be given over four units. A comprehensive Final Exam will be taken in the classroom at the end of the term. The examination format will include multiple choice and short answer essay items. Exams will be administered a minimum of one (1) week after being announced. Please inform the instructor ASAP if you know you will miss a lecture exam on the scheduled date and make arrangements to take the exam in advance.

**There are no makeup exams available for these exams.**

### Bonus Credits

During each lecture class session there will be opportunities to earn **bonus credits** by successfully answering timed questions using your textbook, and notes and the powerpoint lecture so use of tablet/laptop/smart phones is encouraged! You will be working with a partner (small group) as well and must submit a single answer from your group for credit before time expires. These bonus credits are redeemed into bonus points on the major lecture exam that follows later in the course.

### Grading Scale

Semester Grade	Course Average
A	89.5-100
B	79.5-89.4
C	69.5-79.4
D	59.5-69.4
F	59.4-below

If situations make it necessary for missing class you are still responsible for all the work you missed during class. If you miss class, you should let me know ASAP and in advance if at all possible. I can give you the assignments to help you remain current in the course.

## **Make-up Policy**

### **Lecture Exams:**

**There are no makeup exams available for these exams.**

**Written assignments** in lecture are due at the beginning of the class session and will be penalized 10% for being late for the first 24 hours and 20% for the second 24 hours and will not be accepted after 48 hours .

## **Class Conduct**

Students are expected to conduct themselves as adults. Any student who acts in such a manner as to disturb the class and interfere with the learning process will be expelled from the course with a grade of "F". **No music players or cellular phones are permitted in my classroom. No texting or talking on a phone or messaging device during class...TURN THEM OFF!**

If you bring a cell phone (electronic communication device) into my classroom, be sure that it is **turned off and not out on your desk**.

<p><b>Any student that has a cell phone or any electronic communications device in their possession during any quiz or examination <u>will receive a zero (0) for the quiz or examination. NO EXEPTIONS! You will also be counted absent for that class session.</u></b></p>
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**All electronic devices** (e.g. audio recorders, laptop/tablet computers etc.) brought into class must be cleared by the instructor for use for **each** class session.

## **Academic Integrity Statement**

Scholastic dishonesty, involving but not limited to cheating on a test, plagiarism, collusion, or falsification of records will make the student liable for disciplinary action after being investigated by the Dean of Students. Proven violations of this nature will result in the student being dropped from the class with an "F".

This policy applies campus wide, including TC Testing Center, as well as off-campus classroom or lab sites, including dual credit campuses. This information can be found in the Student Handbook at <https://texarkanacollege.edu>.

**Disability Act Statement:**

Texarkana College complies with all provisions of the Americans with Disabilities Act and makes reasonable accommodations upon request. Please contact Larry Andrews at 903.823.3283, or go by the Recruitment, Advisement, and Retention Department located in the Administration building for personal assistance.

If you have an accommodation letter from their office indicating that you have a disability which requires academic accommodations, please present it to me so we can discuss the accommodations that you might need for this class. *It is best to request these changes at the beginning if not before the start of class* so there is ample time to make the accommodations..

By signing this statement, I agree that I have read and understand what is expected of me to perform satisfactorily in this course of study.

*I also understand that any photographic and or audio recordings that are made of students including myself) during this class of are the property of Texarkana College and can be used to promote the educational mission of Texarkana College.*

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Student Name (**PRINT** First & LAST NAME)

\_\_\_\_\_  
Legal Signature

BIOL 1307  
\_\_\_\_\_  
TC Course Number / Section Number

\_\_\_\_\_  
Date