

BIOL 1307 – Fall 2021

Principles of Biology II Lecture



Instructor: Carla Ebeling

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Phone: (325) 486-6701

Office: Cavness Science Building 002A

Virtual Meeting Space: [Blackboard](#)¹ Collaborate

Office Hours: MWF 10:30-11:00 AM; TR 9:30-11:00 AM and other times by appointment. In-person office hours may be moved to outdoor spaces (weather permitting) or to a virtual meeting. Look for Blackboard and email announcements.

Course Information

Class Meeting Dates and Times

2021 Fall Semester: Monday 23 August - Friday 10 December 2021

1307.040 MWF 11:00-11:50 AM CHP 203

1307.070 TR8:00-9:15 AM CAV 023

Course Description

An introduction to the unifying principles of biology with emphasis on biological diversity, evolution, and ecology. Recommended for students majoring in biological sciences or related disciplines. Not intended for non-majors.

Prerequisite and Co-requisite Courses

Students must register for Biology 1307 lecture and 1107 laboratory concurrently. You must be enrolled in a section of 1107 concurrently with the 1307 lecture. Even though

there are two course numbers, we consider these to be one course and you will receive the same letter grade for lecture and lab regardless of your point total in either course alone.

Student Learning Outcomes

This course introduces the integration between structure and function of biological organization. You will be asked to use processes of science to apply principles of evolution, genetics, diversity, and ecology to living systems. Observation, experimentation, and investigation are emphasized. Biology 1307 requires a conceptual understanding of the material rather than the simple memorization and regurgitation of facts. This course will challenge you to analyze and apply information, solve problems, and make connections different from the context in which they were learned. These are critical skills in biology. More detailed learning objectives are provided on the Blackboard course page.

Course Delivery

This is a face-to-face course with a component of activities online. Learning resources, supplemental materials, and activities are posted and available or linked in [Blackboard](#). **Exams will be taken in-person during a lecture period.**

Required Texts and Materials

- McGraw-Hill CONNECT™ access through the Textbook: Brooker, R.J., E.P. Widmaier, L.E. Graham, and P.D. Stiling. 2020. *Biology*. 5th Edition. McGraw-Hill: NY. with CONNECT™
 - Option 1 CONNECT™– with eBook ISBN: 9781264114573
 - Option 2 CONNECT™– with Loose leaf book and eBook ISBN: 9781260933437
- Lab Manual: Heimann C.P. and D.P. French. *Investigating Biology: Laboratory Manual to accompany Principles of Biology II*. ISBN 9781644852835
 - This lab manual is ONLY available via TopHat. It is essentially an online work book that allows you to submit assignments and answer questions online.

Technology Requirements

- ASU email account and access to [Blackboard](#) course site
- TopHat™ Lab Manual (see above). TopHat™ is available as an app on smartphones and tablets, and via a website on computers. Additional information will be given in lab the first week of class.
- Computer with reliable internet access. Certain assignments require a computer with a mouse or touchpad. Certain assignments are not compatible with Chromebooks and mobile devices.
- Digital camera/scanner app. Must have the ability to take a photo/scan of written work and submit PDF electronic copy. (There are many free options!)
- Microsoft Office 365. You have free access to this software as an ASU student. You must use the downloaded, not the web, version of this software. You are expected to complete assignments in both Word and Excel. Instructions for how to find and install this software will be provided in the Lab Blackboard
- A Digital device with wireless capability (cell phone, tablet, laptop). If we go back on online only during the semester, for taking exams, you will need access to a device that allows you to take the exam through the Respondus Lockdown Browser. This course has significant online components. You must be able to access course materials on a daily basis. A laptop is preferred – it will be very difficult to complete most online assignments without a laptop/computer and a reliable wireless source.

Communication

Faculty will respond to email and telephone messages within 24 hours during working hours Monday through Friday. Weekend messages may not be returned until Monday evening.

Written communication via email: All email communication will be done exclusively through your ASU email address. Check your ASU email frequently for announcements and policy changes. In your emails to faculty, include the course name and section number in your subject line.

Virtual communication: Office hours and/or advising may be done with the assistance of the telephone and/or Blackboard Collaborate.

Grading

Evaluation and Grades

The student learning outcomes will be assessed by exams, tutorials, online assignments, lecture activities, and the laboratory. Even though BIOL 1307 and 1107 are different courses, you receive one grade for the combined points earned for each course (see table below). Your overall course grade in 1307/1107 will be the letter grade reported for both 1307 and 1107 on your transcript.

Course grades will be determined based on combined scores from lecture and lab as indicated:

- Lecture Activities – 200 points
- Exam 1 – 100 points
- Exam 2 – 100 points
- Exam 3 – 100 points
- Final Exam* – 200 points
- Laboratory** – 300 points
- Total Course points - 1000

Grading System

Course grades will be dependent upon completing course requirements and meeting the student learning outcomes.

The following grading scale is in use for this course (Grades are not rounded up):

A = 900-1000 points

B = 800-899.9 points

C = 700-799.9 points

D = 600-699.9 points

F = 0-599.9 points

*The Comprehensive Final Exam (percentage grade) can replace a lower grade on one of the first three semester lecture exams.

*Everyone MUST take the final exam. You WILL NOT pass this course if you miss the final exam.

****You must earn a passing grade in the lab to pass the course!**

Assignment and Activity Descriptions

Knowledge of Student Learning Outcomes will be assessed as multiple choice, matching, true/false questions on examinations. **Exams will be taken in-person during a lecture period.** Activities will be a mix of various assignment formats including; TopHat questions, CONNECT assignments, Blackboard quizzes, worksheets, and other assessment formats. There will be no makeup activity if you miss a deadline.

Examinations

You will only be allowed to “make-up” one exam during the semester by substituting it with an adjusted percentage from your final exam. If you miss more than one exam, for any reason, you will not pass this course.

****Everyone MUST take the final exam. You WILL NOT pass this course if you miss the final exam.**

All exams are comprehensive. For example, this means that Exam 3 will cover all material from exam 1, exam 2, as well as new material since those exams were given.

*The Comprehensive Final Exam (percentage grade) can replace a lower grade on one of the first three semester lecture exams.

Exam questions typically require interpretation of data and application of concepts rather than rote memory. While emphasis will be placed on material specifically discussed in lectures and lab, exams also include questions covered in other assigned materials, readings and lab. Exam questions will be objective questions (multiple choice, matching, true/false) and will be given in-person during lecture.

Make-up exams or exam extensions will be given only in extreme emergency situations. Opportunity to take a make-up exam is based on University policy and instructor discretion. Arrangements for excused make-up exams or time extensions should be made prior to the scheduled date of the exam, unless it is a health emergency, in which case you should contact the instructor as soon as possible.

Laboratory Grades

Success in the laboratory involves communication and teamwork in designing and conducting experiments, performing pre-lab and lab activities and report writing. In addition, you will conduct activities designed to develop and improve critical thinking and problem-solving skills related to the topics discussed in lectures. You must earn a minimum of 60% lab score (180 of 300 points) to pass the course. *****You WILL NOT pass the course if you fail the lab!!**

General Policies Related to This Course

All students are required to follow the policies and procedures presented in these documents:

- [Angelo State University Student Handbook²](#)
- [Angelo State University Catalog³](#)

Academic Integrity

Students are expected to maintain complete honesty and integrity in all work. Any student found guilty of any form of dishonesty in academic work is subject of disciplinary action and possible expulsion from ASU.

The College of Science and Engineering adheres to the university's [Statement of Academic Integrity⁴](#).

Plagiarism

Plagiarism is a serious topic covered in ASU's [Academic Integrity policy⁵](#) in the Student Handbook. Plagiarism is the action or practice of taking someone else's work, idea, etc., and passing it off as one's own. Plagiarism is literary theft.

In your discussions and/or your papers, it is unacceptable to copy word-for-word without quotation marks and the source of the quotation. It is expected that you will summarize or paraphrase ideas giving appropriate credit to the source both in the body of your paper and the reference list.

Papers are subject to be evaluated for originality. Resources to help you understand this policy better are available at the [ASU Writing Center](#).⁶

Accommodations for Students with Disabilities

ASU is committed to the principle that no qualified individual with a disability shall, on the basis of disability, be excluded from participation in or be denied the benefits of the services, programs or activities of the university, or be subjected to discrimination by the university, as provided by the Americans with Disabilities Act of 1990 (ADA), the Americans with Disabilities Act Amendments of 2008 (ADAAA) and subsequent legislation.

Student Disability Services is located in the Office of Student Affairs, and is the designated campus department charged with the responsibility of reviewing and authorizing requests for reasonable accommodations based on a disability. It is the student's responsibility to initiate such a request by contacting an employee of the Office of Student Affairs, in the Houston Harte University Center, Room 112, or contacting the department via email at ADA@angelo.edu. For more information about the application process and requirements, visit the [Student Disability Services website](#).⁷

The employee charged with the responsibility of reviewing and authorizing accommodation requests is:

Dr. Dallas Swafford

Director of Student Disability Services, Office of Student Affairs

325-942-2047

dallas.swafford@angelo.edu

Houston Harte University Center, Room 112

IMPORTANT: I am happy to make accommodations for you based on the recommendations from the Student Life Office. Please make an appointment and meet with me during the first week of class so that we have sufficient time to plan for it. One to two days prior to the exam/quiz is not acceptable. Failure to contact me in advance or adequately planning may result in a less than ideal situation.

Incomplete Grade Policy

It is policy that incomplete grades be reserved for student illness or personal misfortune. Please contact faculty if you have serious illness or a personal misfortune that would keep you from completing course work. Documentation may be required. See ASU Operating Policy 10.11 [Grading Procedures](#)⁸ for more information.

Student Absence for Observance of Religious Holy Days

A student who intends to observe a religious holy day should make that intention known in writing to the instructor prior to the absence. See ASU Operating Policy 10.19 Student Absence for [Observance of Religious Holy Day](#)⁹ for more information.

Title IX at Angelo State University

Angelo State University is committed to providing and strengthening an educational, working, and living environment where students, faculty, staff, and visitors are free from sex discrimination of any kind. In accordance with Title VII, Title IX, the Violence Against Women Act (VAWA), the Campus Sexual Violence Elimination Act (SaVE), and other federal and state laws, the University prohibits discrimination based on sex, which includes pregnancy, and other types of Sexual Misconduct. Sexual Misconduct is a broad term encompassing all forms of gender-based harassment or discrimination and unwelcome behavior of a sexual nature. The term includes sexual harassment, nonconsensual sexual contact, nonconsensual sexual intercourse, sexual assault, sexual exploitation, stalking, public indecency, interpersonal violence (domestic violence or dating violence), sexual violence, and any other misconduct based on sex.

You are encouraged to report any incidents involving sexual misconduct to the Office of Title IX Compliance and the Director of Title IX Compliance/Title IX Coordinator, Michelle Miller, J.D. You may submit reports in the following manner:

Online: [Incident Reporting Form](#)¹⁰

Face to Face: Mayer Administration Building, Room 210

Phone: 325-942-2022

Email: michelle.miller@angelo.edu

Note, as a faculty member at Angelo State, I am a mandatory reporter and must report incidents involving sexual misconduct to the Title IX Coordinator. Should you wish to speak to someone in confidence about an issue, you may contact the University Counseling Center (325-942-2371), the 24-Hour Crisis Helpline (325-486-6345), or the University Health Clinic (325-942-2171).

For more information about resources related to sexual misconduct, Title IX, or Angelo State's policy please visit the [Title IX website](#).¹¹

Information About COVID-19

Please refer to ASU's [COVID-19 \(Coronavirus\) Updates](#)¹² web page for current information about campus guidelines and safety standards as they relate to the COVID-19 pandemic.

Modifications to the Syllabus

This syllabus, including grade evaluation and course schedule, is subject to modification. In particular, the COVID-19 pandemic may require significant changes in course delivery and content on potentially short notice.

Course Schedule

Tentative schedule of dates, topics, and exams. Order and dates are subject to change.

Unit 1: Weeks 1-4

- Scientific Thinking
- Origins of Life
- What is a species?
- Biological classification systems
- **EXAM #1 – Thursday 16 September (TR section); Friday 17 September (MWF section)**

Unit 2: Weeks 5-8

- Diversity of Life – Prokaryotes
- Diversity of Life – Eukaryotes
- **EXAM #2 – Thursday 14 October (TR section); Friday 15 October (MWF section)**

Unit 3: Weeks 9-12

- Mechanisms of Change -Mitosis and Meiosis Review
- Introduction to Evolution
- Natural Selection
- Evolution and Population Genetics
- Species Interactions
- Population Ecology
- **EXAM #3 – Thursday 11 November (TR section); Friday 12 November (MWF section)**

Unit 4: Weeks 12-16

- Ecology and Animal Behavior
- Communities and Ecosystems
- **EXAM #4 (Comprehensive Final Exam)**
 - **Tuesday 7 December 8:00 -10:00 AM (TR section)**
 - **Wednesday 8 December 10:30 AM-12:30 PM (MWF section)**

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- ¹ <https://blackboard.angelo.com/>
 - ² <https://www.angelo.edu/current-students/student-handbook/>
 - ³ <https://www.angelo.edu/academics/catalog/>
 - ⁴ <https://www.angelo.edu/live/files/27603-student-handbook-2020-21 - page=96>
 - ⁵ <https://www.angelo.edu/student-handbook/community-policies/academic-integrity.php>
 - ⁶ https://www.angelo.edu/current-students/writing-center/academic_honesty.php
 - ⁷ <https://www.angelo.edu/services/disability-services/>
 - ⁸ <https://www.angelo.edu/content/files/14197-op-1011-grading-procedures>
 - ⁹ <https://www.angelo.edu/content/files/14206-op-1019-student-absence-for-observance-of>
 - ¹⁰ <https://www.angelo.edu/incident-form>
 - ¹¹ <https://www.angelo.edu/title-ix>
 - ¹² <https://www.angelo.edu/covid-19/>