



BIOL 1235 - General Biology II (With Lab)

2022 Spring Session	
Total Class Sessions: 25 Class Sessions Per Week: 5 Total Weeks: 5 Class Session Length (Minutes): 145 Credit Hours: 5	Instructor: Staff Classroom: TBA Office Hours: TBA Language: English Total Lab Sessions: 10

Course Description:

BIOL 1235 is a continuation of BIOL 1135, aiming to enhance and offer a broadened and comprehensive study on the field of General Biology. Students will address this course from the perspective of evolution, plant diversity, organism system and ecosystem. Student will have a glance of how the world evolve with Bacteria, Fungi, Plant and Animal through hands-on experiences. Topics cover content selected from unit 5 to 8 in the textbook. Upon completion, students will build a comprehensive understanding of life at the organismic and ecological levels. This course includes 10 lab sessions.

Course Materials:

Textbook: Campbell Biology, Reece, 10th Edition

Course Format and Requirements:

Lectures:

Students should do the assigned readings before coming to the lectures. During some of the lectures there will be in-class discussions, with two or three students discussing the problem together for a few minutes before a whole class discussion. An active participation in lecture will help a student to understand the material better.

Labs:

The goal of the labs is to provide a hands-on experience with biological material and to enhance abilities in scientific methodology, critical thinking, and communicating about biology. Attendance is mandatory. No make-up labs will be provided.

Attendance:

Attendance is mandatory. More than three unexcused absences will result in an automatic reduction in your participation grade, for instance from A- to B+. Your active participation in the class is expected and constitutes part of your grade.

Course Assignments:

**Homework Assignment**

Homework assignment is a individual work. It will cover the key points and concepts in each lectures. The answers of Homework question will be posted in next class by instructor. As a result, each students shall submit his/her individual answer before the beginning of next Class.

Quizzes

The quizzes will be multiple choices, fill in blanks and/or short answer questions. There will be 6 quizzes among the whole semester. The quizzes will be based on lecture material and should always be finished at the first 10-15minutes of the class.

There are no make-up of quizzes allowed.

Exams (Two midterm exams+ a final exam)

Exams are a combination of multiple choice, short answer questions and true/false questions. Only the final exam is cumulative. Students are responsible for all notes in posted lecture presentations and material discussed in lecture. The textbook is a critically important supplement to your learning and will enhance understanding of material presented in lecture. There are no makeup exams or re-scheduling of exams.

Lab Assignments:

Lab grading depends on in-class worksheets, participation, lab reports and the lab final exam or presentation. Specific due dates for projects and more detailed lab policies will be given in lab. Attendance at labs is mandatory. Students missing 3 or more labs, whether excused or unexcused, will receive an F grade for the course.

Course Assessment:

Homework Assignment	15%
6 Quizzes	15%
Labs	15%
Midterm Exams 1	15%
Midterm Exams 2	15%
Final Exam	25%
Total	100%

Grading Scale (percentage):

A+	A	A-	B+	B	B-	C+	C	C-	D+	D	D-	F
98- 100	93- 97	90- 92	88- 89	83- 87	80- 82	78- 79	73- 77	70- 72	68- 69	63- 67	60- 62	<60

Academic Integrity:

Students are encouraged to study together, and to discuss lecture topics with one another, but all other work should be completed independently.

Students are expected to adhere to the standards of academic honesty and integrity that are



described in the Chengdu University of Technology's *Academic Conduct Code*. Any work suspected of violating the standards of the *Academic Conduct Code* will be reported to the Dean's Office. Penalties for violating the *Academic Conduct Code* may include dismissal from the program. All students have an individual responsibility to know and understand the provisions of the *Academic Conduct Code*.

Special Needs or Assistance:

Please contact the Administrative Office immediately if you have a learning disability, a medical issue, or any other type of problem that prevents professors from seeing you have learned the course material. Our goal is to help you learn, not to penalize you for issues which mask your learning.

Course Schedule:

Week	Topics	Activities
1.	Go through syllabus+ Course overview Review on BIO 1135 Origin of Species and History of Life on Earth Phylogeny and the Tree of Life Introduction Prokaryotes (Bacteria & Archaea) Protists (Protozoa, Algae, and others) Fungi	Homework Assignment Quiz 1
2.	Primitive plant and Advanced Plants Plant Anatomy Plant Reproduction Plant Transport, Soil and Plant Nutrition Overview of Animal Diversity	Homework Assignment Quiz 2 Midterm 1
3.	Invertebrates and Vertebrates Cardiovascular System and Circulation Respiratory System, Hemoglobin and Gas Exchange The Immune System Endocrine System and Hormones	Homework Assignment Quiz 3 and 4



4.	Excretory system Nervous Systems Neurons, Synapses, and Signaling Animal Reproduction Animal Development and Behavior	Homework Assignment Quiz 5 Midterm 2
5.	Population Ecology Community Ecology Ecosystem and Restoration Ecology Summary of the Semester Review for Final	Homework Assignment Quiz 6 Final exam

Lab Schedule:

Lab 1: Bacterial Transformation

Lab 2: Funji

Lab 3: Seedless Plants

Lab 4: Seed Plants

Lab 5: Plant Anatomy

Lab 6: Animal Tissues

Lab 7: Respiration

Lab 8: Invertebrates and Vertebrates

Lab 9: Animal Dissection I

Lab 10: Animal Dissection II