

0704B100

Introductory Biology

Instructor: Ketian Chen

Time: Monday through Friday (June 15, 2020 - July 17, 2020)

Office Hours: 2 hours (according to the teaching schedule)

Contact Hours: 45 (50 minutes each)

Credits: 3

Location: Huiquan Building

Office: Huiquan Building 518

Course Description

Biological Science is all around us, and affects every aspect of our lives and every facet of life on Planet Earth. The goal of this course is to furnish students with the basic foundation, information, and analytical tools necessary to grasp the fundamental concepts central to the study of biology.

This is a vast and highly diverse subject, and thus will require an overview approach in a short course such as this one. We will cover the most important areas in some detail, both in the classroom and in the laboratory, while striving to achieve a balanced view of the big picture ideas.

Required Textbook(s)

Biology Today and Tomorrow, With Physiology, 3rd Edition or 4th, by Starr, Evers, and Starr (published in 2010 by Cengage).

ISBN-10:0495561576

ISBN-13:9780495561576

Prerequisites

No prerequisites

Course Hours

The course has 20 sessions in total. Each class session is 120 minutes in length. The course meets from Monday to Thursday.

Course Schedule

Please note that the schedule is meant to give an overview of the major concepts this course. Changes may occur in this calendar as needed to aid in the student's development.

Week 1

Monday	Introduction to Biology
Tuesday	Molecules of Life Cell Structure
Wednesday	Energy and Metabolism
Thursday	Capturing and Releasing Energy

Week 2

Monday	DNA Structure and Function
Tuesday	Gene Expression and Control How Cells Reproduce
Wednesday	Patterns of Inheritance
Thursday	Biotechnology

Week 3

Monday	Evidence of Evolution
Tuesday	Processes of Evolution
Wednesday	Early Life Forms and the Viruses
Thursday	Plants and Fungi Animal Evolution

Week 4

Monday	Population Ecology
Tuesday	Communities and Ecosystems The Biosphere and Human Effects
Wednesday	Animal Tissues and Organs How Animals Move
Thursday	Circulation and Respiration Immunity

Week 5

Monday	Digestion and Excretion
Tuesday	Neural Control and the Senses
Wednesday	Reproduction and Development Plant Form and Function
Thursday	Plant Reproduction and Development

Course Requirements

Students are expected to do all the readings for the week in their entirety before class. In addition to reading the assigned material, you are required to think about the material and analyze it in comparison to other subjects under consideration. This will greatly enhance the value and quality of our classroom sessions. Use of cell phones, iPhones, any and all forms of Social Network activities, and any other electronic communication, games, or internet devices during class time hinders your learning, is disrespectful and is strictly prohibited.

Grading Policy

Your final grade is based on the following components:

Type	Percentage
Quizzes/Homework	30% of grade
Attendance and Participation	10% of grade
Midterm Exam	30% of grade
Final Exam	30% of grade

Grading Scale

The instructor will use the grading system as applied by JNU:

Definition	Letter Grade	Score
Excellent	A	90~100
Good	B	80~89
Satisfactory	C	70~79
Poor	D	60~69
Failed	E	Below 60

Attendance

Attendance is mandatory in the class. It would be recorded each class and forms part of students' participation record. Students should inform the instructor at the earliest opportunity if they need to ask for a leave. All absences may have negative effect on students' final grades. Any students with more than three unexcused absences will automatically fail the course.

Academic Integrity

As members of the Jinan University academic community, students are expected to be honest in all of their academic coursework and activities. Academic dishonesty, includes (but is not limited to) cheating on assignments or examinations; plagiarizing, i.e., misrepresenting as one's own work any work done by another; submitting the

same paper, or a substantially similar paper, to meet the requirements of more than one course without the approval and consent of the instructors concerned; or sabotaging other students' work within these general definitions. Instructors, however, determine what constitutes academic misconduct in the courses they teach. Students found guilty of academic misconduct in any portion of the academic work face penalties that range from the lowering of their course grade to awarding a grade of E for the entire course.