



Academic Inquiries: Jinan University

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# JINAN UNIVERSITY

## Introductory Biology

**Lecturer:** Dr. Marcia Magnus

**Time:** Monday through Friday (June 18, 2018-July 20, 2018)

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

**Contact Hours:** 50 (50 minutes each)

**Credits:** 3

**Location:** Huiquan Building

**Office:** Huiquan Building 518

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### 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 Text

*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

### Course Hours

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

### Grading Policy

Grades will be determined as follows: **10 percent for classroom attendance and quality of participation**, **45 percent for the midterm exam**, which will be held on Thursday of the third week; and **45 percent for the final exam**, which will be held on Friday of the final week. Professor also reserves the right to incorporate **classroom attendance and quality of participation** into determination of each student's grade in the course. Our classroom sessions are designed to be **highly interactive**, with a large component of direct participation and active discussion from every student.

### 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

### Course Policy

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.

### **Course Schedule**

**NOTE: Our actual pace may be faster or slower than indicated on this schedule. We will spend more time on some chapters and subjects than on others. KEEP UP WITH OUR CLASSROOM DISCUSSIONS AND READ AHEAD ACCORDINGLY. IT IS BETTER TO READ AHEAD AND BE READY THAN TO FALL BEHIND AND BE UNPREPARED FOR OUR CLASSROOM DISCUSSIONS!**

#### **WEEK ONE:**

1. Invitation to Biology.
2. Molecules of Life.
3. Cell Structure.
4. Energy and Metabolism.
5. Capturing and Releasing Energy.

#### **WEEK TWO:**

6. DNA Structure and Function.
7. Gene Expression and Control.
8. How Cells Reproduce.
9. Patterns of Inheritance.
10. Biotechnology.

#### **WEEK THREE:**

11. Evidence of Evolution.
12. Processes of Evolution.
13. Early Life Forms and the Viruses.
14. Plants and Fungi.
15. Animal Evolution.

**WEEK FOUR:**

16. Population Ecology.
17. Communities and Ecosystems.
18. The Biosphere and Human Effects.
19. Animal Tissues and Organs.
20. How Animals Move.
21. Circulation and Respiration.
22. Immunity.

**WEEK FIVE:**

23. Digestion and Excretion.
24. Neural Control and the Senses.
26. Reproduction and Development.
27. Plant Form and Function.
28. Plant Reproduction and Development.

**Academic Honesty**

Jinan University defines academic misconduct as any act by a student that misrepresents the student's own academic work or that compromises the academic work of another. Scholastic misconduct 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 substantially similar papers, to meet the requirements of more than one course without the approval and consent of the instructors concerned; sabotaging another's work. Within these general definitions, however, instructors 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 ranging from lowering of their course grade to awarding a grade of E for the entire course.