



Hunan University BIL 101: Introduction to Biological Science

Professor: To be announced

Total contact hours: 54 hours

Credit: 4

Course Description

This is an introductory course for students majoring in an area other than science. The course material is presented within the context of the human experience and covers cell biology, physiology, genetics, evolution, ecology and the interaction of humankind with the environment. The success of this course depends on both of us - me, by providing the opportunity for your involvement, and you, by your active participation in the process.

Required Textbook

Biology Today: An Issues Approach By Minkoff and Baker

Grading

- Participation 20%
- Lab 15%
- Essay 20%
- Midterm 20%
- Final Exam 25%

A+ 96-100	A 90-95	A- 85-89
B+ 82-84	B 78-81	B- 75-77
C+ 71-74	C 66-70	C- 62-65
D 60-61	F < 60	

Assignment

Students are encouraged to study in groups: it will make studies productive and fun. However, remember: all assignments must be submitted individually.

Note: Late assignments are not accepted.



Course Schedule

The course has 24 class sessions in total. All sessions are 2 hours and 15 minutes in length.
Note: the course outline and required readings are subject to change.

Class 1

Biology: Science and Ethics (Ch. 1)

Class 2

Genes, Chromosomes and DNA (Ch. 2)

Class 3

Human Genetics (Ch. 3)

Class 4

Review Discussion (Essay topic to be announced in the class)

Class 5

Stem Cells, Cell Division and Cancer (Ch. 12)

Class 6

Genetic Engineering and Genomics (Ch. 4)

Class 7

Evolution (Ch. 5)

Class 8

Evolution (Ch. 5) (Cont.)

Class 9

Review Discussion (Essay worksheet)

Class 10

Human Variation (Ch. 7)

Class 11

The Population Explosion (Ch. 9)

Class 12

The Population Explosion (Ch. 9) (Cont.)

Class 13

Midterm Review



Class 14
Midterm Exam

Class 15
Nutrition and Health (Ch. 10)

Class 16
Plants to Feed the World (Ch. 11)

Class 17
The Nervous System and Senses (Ch. 13)

Class 18
Drugs and Addiction (Ch. 14)

Class 19
Review Discussion

Class 20
Mind and Body / HIV and AIDS (Ch. 15, 16)

Class 21
Protecting the Biosphere (Ch. 19)

Class 22
Conservation of Natural Resources and Why?

Class 23
Final Review (Essay due in the class)

Class 24
Final Exam

Laboratory Schedule

Room: To be determined

All laboratory safety protocols in BIL 101 will be strictly enforced. Violation of any safety protocol may result in point deduction on the **procedures, techniques** and **safety** section of your individual Evaluation Sheet, and/or dismissal from the laboratory.

Do not work in the laboratory alone or perform unauthorized experiments.

Ask your instructor whenever you do not know how to perform a procedure. Notify your instructor immediately when there is an accident (including broken glassware, major chemical spill, and bodily injury).



Lab topics: Cell & Genes & Drugs

Exercise # 1: Genetic Variation; Nutrition and Health

Exercise # 2: Population Explosion; Natural Resources Conservation

Attending Policy

Regular and prompt attendance is required. Under ordinary circumstances, you may miss two times without penalty. Each absence over this number will lower your course grade by a third of a letter and missing more than five classes may lead to a failing grade in the course. Arriving late and/or leaving before the end of the class period are equivalent to absences.

Policy on "Late Withdrawals"

In accordance with university policy, appeals for late withdrawal will be approved ONLY in case of medical emergency and similar crises.

Academic Honesty

Hunan University expects all students to do their own work. Instructors will fail assignments that show evidence of plagiarism or other forms of cheating, and will also report the student's name to the University administration. A student reported to the University for cheating is placed on disciplinary probation; a student reported twice is suspended or expelled.

General Expectations:

Students are expected to:

- Attend all classes and be responsible for all materials covered in class and otherwise assigned;
- Complete the day's required reading and assignments before class;
- Review the previous day's notes before class and make notes about questions you have about the previous class or the day's reading;
- Participate in class discussions and complete required written work on time;
- Refrain from texting, phoning or engaging in computer activities unrelated to class during the class period;
- While class participation is welcome, even required, you are expected to refrain from private conversations during the class period.

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.