



中央民族大学  
MINZU UNIVERSITY OF CHINA

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**Minzu University of China**  
**BIOL 267 Human Development**  
**Summer 2020**

**Basic Information**

**Class hours:** Monday through Friday, 3 hours each day

**Office Hours:** 2 hours (According to professors' teaching plan)

**Field Trip:** According to professors' teaching plan

**Credit:** 6

**Total contact hours:** 90 (50 minutes each)

**Instructor:** TBA

**Course Description**

This course explores the main themes of how people grow and develop through the lifespan. It focuses on the basic knowledge of human biology, physiology and development. This is accomplished by (1) in-depth discussion of the human organization and maintenance from chemistry of life, cell structures, types of tissues, organ systems, nutrition, and homeostasis; (2) learning the human genetics and inheritance from chromosome, genetic mutation, DNA biology, and modern molecular technologies; (3) introducing information about human evolution and ecology from the origin of life, population growth and human impact to ecosystems and biodiversity.

**Learning Objectives and Outcomes**

At the end of this course, students will:

1. Assess genetics, human inheritance and related transmission of disease
2. Examine organization and regulation of human body systems
3. Demonstrate the molecular biology including DNA, chromosome and genes mutation and how they function in human development
4. Understand the classification, evolutionary history and natural selection of humans
5. Demonstrate awareness of human population dynamics and its impact to the environment
6. Learn terminology in the scope of human biology, physiology, and development

**Required Textbooks**

- *Human Biology*. Sylvia Mader, 14<sup>th</sup> ed., McGraw Publishers. ISBN-13: 978-1259245749
- Online version of relevant articles and materials will be accessible on the course website



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### Assignments

1 Project Presentation	15%
4 Critical Thinking Papers (2.5% each)	10%
1 Midterm	35%
1 Final Exam	30%
Attendance & Quizzes (every Tue; 2% each)	10%

### Evaluation/Grading Policy

In this course, students are evaluated on the following Grading (Scale) System

97-100	A+	87-89	B+	77-79	C+	67-69	D+	Below 60 F
94-96	A	84-86	B	74-76	C	64-66	D	
90-93	A-	80-83	B-	70-73	C-	60-63	D-	

### Course Schedule (5 weeks)

#### Week 1: Introduction to Human Life and Organization

##### Readings: Ch. 1, 2, 3, 4

- What is Human Life & Science? CH1
- Chemistry of Human Life CH2
- Human Cell Structure and Function CH3
- Human Cell Structure and Function CH3
- Human Body Systems CH4
- Discussion session

#### Week 2: Maintenance of the Human Body

##### Readings: Ch. 5, 6, 7, 8, 9

- Cardiovascular System: Heart and Blood Vessels CH5
- Cardiovascular System: Blood CH6
- Lymphatic & Immune Systems CH7
- Biology of Infectious Diseases CH8
- Digestive system and Nutrition: Digestive system CH9
- Discussion session

#### Week 3: Nutrition and Human Reproduction

##### Readings: Ch. 9, 17, 18

- Digestive system and Nutrition: Nutrition CH9



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- Reproductive Systems CH1
- Birth Control, infertility, STIs CH17;
- Embryo, Fetal Development, Pregnancy & Birth CH18;
- **Mid-term Exam** (CH1-9, 17-18)
- Discussion session

#### **Week 4: Human Genetics, Molecular Biology, and Biotechnology**

**Readings: Ch. 19, 20, 21, 22**

- Oral Presentation
- Patterns of Chromosome Inheritance CH19; Cancer CH20;
- Patterns of Genetic Inheritance CH21
- DNA Biology and Technology CH22
- Field trip: in class documentary movie
- Discussion session

#### **Week 5: Human Evolution, Population, and Ecology**

**Readings: Ch.23, 24, 25**

- Human Evolution CH23
- Human Global Ecology & Impacts CH24
- Human Population, Change and Response to Environment CH25
- Revision
- **Final Exam**

#### **Academic Honesty**

Every student in this course is trusted to fully comply with the Minzu University of China Honor Code. On the test, it is expected that students will neither receive nor give aid to another student, access any material, use any electronic device other than a simple calculator. Any student in violation of the Honor Code during the test will immediately receive a F for this course.

#### **Attendance Policy**

Attendance and Quizzes will account for 10% of the total course. Although attendance is not mandatory, it is your responsibility to attend each class and take the quiz, otherwise, you may fail the course.

#### **Missed/Late Assignments**

Assignments are due on the date listed. Without prior approval from the instructor, no late assignments will be accepted.

#### **Learning Disabilities / Physical Handicap**

Students who have a learning disability or physical handicap are encouraged to make arrangements with the instructor and the Disabled Student Services Office for class assignments and exams so that their academic performance is not negatively affected.

**Time Spent Outside of Class on Coursework**

For every 1-credit hour spent in class students should expect to spend a minimum of 2 hours outside of class (on homework, reading, test preparation).