

Department of Psychology

College of Arts

Salahaddin University

Subject: Genetics

Course Book - (Year: 2, semester: 1)

Lecturer's name: Khder Niazi Nooraldeen - Ph.D.

Academic Year: 2023/2024

Course Book

hder Niazi Nooraldeen sychology Dept/ College of Arts -mail: Khder.Nooraldeen@su.edu.krd heoretical: 2 hrs		
-mail: Khder.Nooraldeen@su.edu.krd		
heoretical: 2 hrs		
Monday and Thursday, 10-11:00 a.m., and by appointment		
My philosophy in education is to improve myself by learning ew skills and technologies in education from the experience of other academics throughout the world. This hilosophy depends on transmitting the information of the experience directly to us, or modifying them to be more suitable with the conditions of our university. The estainly this will not happen if there is no close look at the experience they have to be familiar with these technologies from the graduation for the market of business if they will work in the private sector or to use these technologies in their work as future psychologists.		
enetics, psychology		

10. Course overview:

In this course we will cover the basics of hereditary both in a lecture setting as well as a laboratory setting. We will concentrate on three areas of genetics: Mendelian (or transmission) genetics, molecular genetics, and population/evolutionary genetics. While easily divided into these units, they are by no means independent, each being tied to the others. Major concepts to be covered will include how the genetic material: 1) replicates and is passed on, 2) contains information that results in a phenotype, and 3) can change. Recent discoveries as well as historical concepts will be discussed.

11. Course objective:

The goal of this course is to provide students with an overview of genetics from the work of Mendel to the current understanding of the gene at the molecular level. Lectures will introduce basic concepts and terminology, as well as emphasize the importance of experimental approaches used to understand genetics. We will use problems to illustrate concepts and show practical application of genetics to current situations. Additional use of textbook problems and graded problem sets will help students develop critical thinking and problem solving skills.

12. Student's obligation

The student is responsible for all the materials which are lectured in this course. The student has to attend all the lectures. The student has to complete all the exams of this course. Absence from the exams without proper documentation will not be acceptable. Cheating or ant any attempt of cheating will not be tolerated.

13. Forms of teaching

The lectures are going to be taught in lecturing hall with the help of data show on the board. The lecture includes written material and photos of the organs. The lectures are explained in power point form. The blackboard may be used sometimes. The students can receive the lectures from the photocopy shop at the college of Arts.

14. Assessment scheme

In biology there will be 2 midterm exams and one final exam covering the entire lectures of the course.

Evaluation of biology

1st midterm exam 40% Final exam 60% Total 100%

15. Student learning outcome:

At the completion of this course students should be able to (see end of the syllabus for expanded version and tips on how to reach these learning outcomes):

- Explain the nature of inheritance, the genetic material and how it results in phenotype, variation in genetics, and relationship between these concepts.
- Use the concepts of Classical, Molecular and Population genetics to analyze data and solve novel genetics problems.
- Design and carryout genetics experiments, and participate in the generation and evaluation of genetic knowledge.
- Interact with others regarding the impact and use of genetics and genetic information on society.
- Use knowledge of genetics concepts to develop informed questions about a new genetic related topic.
- Connect genetics with concepts/knowledge from other courses.

16. Course Reading List and References:

• Key references: Genetics: A Conceptual Approach, Third Edition (W.H. Freeman) by Benjamin Pierce

17. The To	pics:	Lecturer's name
First term		Lecturer's name
Week 1	Course Introduction	Dr. Khder Niazi (2 hrs)
Week 2	بۆماوەزانى	
Week 3	كرۆمۆسىۆمەكان	
Week 4	شێوازهکانی بوٚماوه 1	
Week 5	شێوازهکانی بوٚماوه 2	
Week 6	دابهش بووني خانه	
Week 7	دەزوەدابەش بوون	
Week 8	كەمەدابەشبوون	
Week 9	Exam	
Week 10	هیّمایی بوّماوهیی	
Week 11	دووانه	
Week 12	ماددهی بۆماوهیی	
Week 13	RNA پێڮهاتهی	

Ministry of Hig	gher Education a	nd Scientific re	search			
Week 14	بازدان					
18. Practio	cal Topics (If	there is any)			
19. Examii	nations:					
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						DNA (a
						RNA (b
20. Extra r	notes:					
The lectures	s could include	video records	about biology			
21. Peer re	 eview					

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