The Hashemite University
Faculty of Science
Course Syllabus

Department of Biology and Biotechnology

Course Title: Genetics
Biology I (110104102**)**
Designation: Required

Course Number: 110104221
Credit Hours: 3(2+3)
Instructor: Dr. Salim Abderrahman

Instructor's E-mail:
salim_dr_1954@hotmail.com
Office Hours: 8-9 (Sunday),12-1 (Tuesday), 10:30-11:30 (Wednesday)

Course Description (Catalog): This course covers the study of the basic principles of Mendelian genetics, statistical and family analysis, sex determination, linkage , cytogenetics, chromosomal aberration, molecular structure of gene, it's replication and transcription and mutation, population genetics.

Text Book: Essentials of Genetics**,** 10th Edition, William Klug,Michael Cummings, Charlotte Spencer and Michael Palladino,.Pearson 2019.

References: Principles of Genetics,7Th Edition, D. Peter Snustad and Michael J. Simmons. Wiley ,2015.
Human Genetics, McGraw-Hill Education; 10 Edition, 2011.
Genetic Diseases https://www.everydayhealth.com/genetic-diseases/

Major Topics Covered:

Topics	No. of Weeks	Contact Hours*
An introduction to genetics	1	2
Cell division	1	4
Mendelian genetics	1	4
Non-Mendelian inheritance**,** Modification of Mendelian ratios	1	5
Sex determination and sex chromosomes	1	2
Linkage and chromosome mapping.Gene expression: transcription	2	4
DNA structure and analysis	2	6
Gene expression: translation DNA replication and recombination	2	6
Genetics of bacteria and bacteriophages	2	6
Population genetics	2	6
Total	**15**	**45**

*Contact Hours include lectures, labs and exams.

Grading Plan:

First Exam:	30 points	06/03/2018
Second Exam:	30 points	10/04/2018
Final Exam:	40 points	To be announced later

General Notes: (Attendance Policy) students are expected to attend every class and arrive on time in compliance with HU regulations. If the student absents in more than 6 classes for the (Sunday, Tuesday, and Thursday model) or 4 classes for the (Monday and Wednesday Model), you cannot pass the course. Makeup excuses will be accepted only for limited justified cases