

The University of Jordan

Faculty: Medicine
Semester: second
Course Name: Genetics in Medicine

Department: Pathology, microbiology & Forensic Medicine
Academic Year: 2025-2026
Course Number: 0504321

Credit hours	2	Level	3	Prerequisite	None
Coordinator/ Lecturer	Dr. Belal Azab	Office number	217	Office phone	
Course website	Medical Genetics	E-mail	b.azab@ju.edu.jo	Place	Teams
Office hours: through Teams (pre-appointment required)					
Lecture Time: Every Saturday 9-11am					

Suggested textbook:

New Clinical Genetics, fourth edition Paperback – December 15, 2020
 by Andrew Read (Author), Dian Donnai (Author)
 ISBN-10 : 1911510703 ISBN-13 : 978-1911510703

Tentative Topics Table (tentative means subject to change)

Wk	Topic
1	Genetic diversity, and laws of segregation and independent assortment Karyotyping, Chromosome structure and nomenclature
2	Autosomal chromosomes and numerical chromosomal aberrations Sex chromosomes, structural chromosomal aberrations
3	Translocation, aneuploidy, mosaics and chimera Live meeting
4	Contrasting Mendelian and non- Mendelian inheritance Features of autosomal dominant and autosomal recessive pedigrees & diseases
5	X-inactivation and features sex linked pedigrees and diseases Mode of inheritance pedigrees examples
6	Phenotypic expression, imprinting and dynamic variants Live meeting
7	Risk assessment I Risk assessment II
8	Human genetic variation
9	Midterm
10	Clinical variant interpretation
10	Biochemical Genetics
11	Cancer Genetics
12	Pharmacogenomics
13	Lysosomal storage disorders
14	Neurogenetics
15	mitochondrial disease
16	Newborn Screening

Midterm and Final Exams dates: TBA