



Jordan University of Science and Technology
Faculty of Science & Arts
Applied Biological Sciences Department

BIO747 Epigenetics

First Semester 2017-2018

Course Catalog

3 Credit Hours. This course will examine selected epigenetic phenomena described in several eukaryotes, mechanisms controlling these effects and their phenotypic consequences when normal regulation is lost

Text Book

Title	Epigenetic Gene Expression and Regulation
Author(s)	Huang, Litt and Blakey
Edition	1st Edition
Short Name	1
Other Information	Elsevier

Course References

Short name	Book name	Author(s)	Edition	Other Information
2	Handouts	Handouts	1st Edition	

Instructor

Name	Dr. OSAMAH BATIHA
Office Location	Ph1L1, Ext 23466
Office Hours	Sun : 09:00 - 10:00 Mon : 11:00 - 12:30 Tue : 11:30 - 13:15 Wed : 09:30 - 11:30
Email	oybatiha@just.edu.jo

Class Schedule & Room

Section 1:

Lecture Time: Thu : 14:30 - 17:30

Room: NF25

Tentative List of Topics Covered

Weeks	Topic	References
Weeks 1, 2	Introduction to epigenetics	1 From 1
Week 3	Assessment of Epigenetic States	
Week 4	Non-coding RNAs in epigenetics	3 From 1
Week 5	X chromosome inactivation	
Week 6	Genomic imprinting in mammals	
Week 7	Position effect variegation and dosage compensation in flies	
Week 8	Potential Epigenetic Consequences with Assisted Reproduction	
Week 9	Epigenetic reprogramming related to cloning	
Week 10	Epigenetics of physiological and premature aging	
Week 11	Epigenetic deregulation in diseases I: Rett syndrome, ICF syndrome, etc	
Week 11	Epigenetic deregulation in diseases II Cancer	
Weeks 12, 13, 14	proposal writing	

Relationship to Program Student Outcomes (Out of 100%)

A	B	C	D	E	F

Policy

class Attendance	Your class attendance is mandatory. Absences in excess of 20% of the total lecture hours will result in your being dropped from the course with a failing grade
makeup Exams	Make-up exam appeals should be filed within TWO days of the missed exam
cell phones	Cell phones are completely prohibited during examinations according to the university regulations i.e. you are not allowed to bring your phone into the exam hall
cell phones	Cell phones must be turned off during lectures. No incoming or outgoing calls or text messages are allowed
cheating	Unethical conduct, including cheating during examinations, will result in punishment by the university administration

