



STANDARD COURSE OUTLINE

Annex 3



Hashemite University	 	Advanced Microbiology (130104746)
Faculty of Science		Pre-requisite:
Department of Biology and Biotechnology		
Course Syllabus		
Course Information		
Lecture's Time	02:00—5:00 pm (Mon.)	
Lecture Room	Bio 112	
Instructor	DR. S.R. Maloul	
Office Location	Bio 107	
Office Hours		
Text Book: Basic virology 3 rd ed., E.K. Wagner, 2008.		
References(s)		

Grading Policy:

Theory

1 st Exam	30 %
2 nd Exam	30 %
Other	__%
Final Exam	40%

Practical

Quizzes	__%
Midterm	-%
Reports	__%

Course Objectives
In this course, emphases are on gaining knowledge about the nature of viruses, understanding their interactions with host cells, viral replication, gene expression, and latency. The course also highlights the effects of viruses on cells, pathogenesis of viral infections, host responses to viral infections, persistent infections, oncogenic viruses, control of viral disease and surveillance, chemotherapy of viral diseases, laboratory diagnosis of viral diseases, and various viral families involved in diseases.
Teaching and Learning Methods
Lectures, Power point Slides, Films, and Articles.

Course Contents

Week	Topic
1	Orientation
2	General Properties of Viruses
3	Cultivation & Assay of Viruses
4	Viral Multiplication
5	Viral Genetics
6	Effects of Viruses on Cells
7	Pathogenesis of Viral Infection
8	Host Responses to Viral Infections
9	Viral Persistence
10	Oncogenic Viruses
11	Control of Viral Disease and Surveillance
12	Chemotherapy of Viral diseases
13	Laboratory Diagnosis of Viral Diseases
14	Clinical Viral Diseases I
15	Clinical Viral Diseases II
16	Final Examination