STANDARD COURSE OUTLINE

Annex 3

Hashemite University		Advanced Microbiology (130104746)
Faculty of Science	Course Syllabus	Pre-requisite:
Department of Biology and Biotechnology		

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 3rd ed., E.K. Wagner, 2008.	
References(s)	

Grading Policy:

Theory		**Practical**
1st Exam	30 %	Quizzes __%
2nd Exam	30 %	Midterm -%
Other	__%	Reports __%
Final Exam	40%	

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