



وكالة الجامعة للشؤون التعليمية
البرامج الدراسية والتطوير

(5)

مختصر توصيف

علم الفير

(Course Syllabus)

:(Course Information) *

علم الفيروسات	:
BIOL-334	:
الأحياء الدقيقة العامة BIOL-231	:
-	:
2	:
Module Title:	Virology
Module ID:	BIOL-334
Prerequisite (Co-requisite) :	General microbiology, BIOL-231
Co-requisite :	-
Course Level:	6 th
Credit Hours:	2

Module Description

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This course is designed for students in general biology which covers an introduction to the field of virology and examines the important aspect and fundamentals of Virology including, virus structure, viral replication cycles, virus classification, architecture and nomenclature, laboratory infection in the host cells, host resistance to viruses and viral epidemiology.

Module Aims

: أهداف الـ

1	To know the special features of the intracellular parasite the Virus	1
2	The nomenclature and classification of virus	2
3	The molecular properties of replication of virus	3
4	viral infection strategy	4
5	Host defense mechanism	5

Learning

مخرجات التعليم:

Outcomes:

1	Know the history of the virus discovery	1
2	Outline the taxonomy of viruses	2
3	Understand the structure and replication of viruses	3
4	Recognize viral infections in plant, animal and humans	4

5 Compare different cultivation and diagnostic techniques for virus

5

Course Contents:

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اعات التدريس (Hours)	الأسابيع (Weeks)	(Subjects)
3	1	Introduction to Virology
6	2	Classification and nomenclature
6	2	Molecular mechanism of replication of viruses
6	2	Bacteriophages
6	2	Plant viruses
9	3	Animal viruses
6	2	General Methods of Diagnosis
6	2	Host defense mechanism

Textbook and References:

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ISBN	Publishing Year	Publisher	اسم المؤلف (رئيسي) Author's Name	Textbook title
ISBN: 1-55581-259-7	2004	ASM Press	S.J. Flint, L.W. Enquist, V.R. Racaniello, A.M. Skalka	Principles of Virology (2 nd edition)
	Publishing Year	Publisher	اسم المؤلف (رئيسي) Author's Name	Reference

	2007	Blackwell Publishing Ltd	N. J. Dimmock, A.J. Easton and K. N. Leppard	Introduction to Modern Virology (6 th edition)
9780128019467 9780128019559	2005	Academic Press	Alan J. Cann	Principles of Molecular Virology (4 th edition)
9780123848710 9780123848727	2013	Academic Press	R. Hull	Plant Virology (5 th edition)

