

Introductory Virology, POPH/MIBO 4650/6650
Fall Semester 2010, Tuesday and Thursday 11-12:15
Rm 216 Biological Sciences
Course Coordinators: García, Jackwood & He

Dates	Lectures and Exams	Assigned Reading	Instructor
8/17	Introduction- Taxonomy, Viral Genomes and Structure	Chpts 1 & 2	He
8/19	Viral Entry, Replication, and Release	Chpt 3	He
8/24	Host response to viral infections I	Chpt 4	He
8/26	Host response to viral infections II		He
8/31	How viruses cause tumors	Chpt 20 & Paper	He
9/2	Scientific Paper Discussion		He
9/7	1st Exam (6 lectures & paper)		He
9/9	Technology and Methodology		García
9/14	DNA Virus Replication	Chpts 15, 16, 17 & 19	García
9/16	Tumor Inducing DNA Viruses	Chpts 17, 18 & 19	García
9/21	Herpesvirus & Poxvirus	Chpts 17, 18 & 19	García
9/23	Herpesvirus & Poxvirus	Paper	García
9/28	Scientific Paper Discussion		García
9/30	Picornaviruses, Flaviviruses, Togaviruses	Chpts 6, 7 & 8	Mundt
10/5	West Nile virus	Chpt 7	Mundt
10/7	Reoviruses and Rotaviruses	Chpt 5	Mundt
10/12	2 nd Exam (8 lectures & paper)		García
10/14	Coronaviruses	Chpt 9	Jackwood
10/19	Coronaviruses (SARS)		Jackwood
10/21	Orthomyxoviruses	Chpt 12	Pantin-Jackwood
10/26	Avian Influenza		Pantin-Jackwood
10/28	Paramyxoviruses, Filoviruses, Boraviruses	Chpts 11 & 13	Fu
11/2	Rabdhoviruses (Rabies)	Chpt 10	Fu
11/4	Retroviruses	Chpt 21	Zavala
11/9	Bioinformatics		Jackwood
11/11	Viral Evolution		Jackwood
11/16	Antivirals/Vaccines	paper	Jackwood
11/18	Scientific Paper Discussion		Jackwood
11/30	3 rd Exam (10 lectures & paper)		Jackwood
12/2	Graduate Students Presentations		García/Jackwood/He
12/14	Final Exam (Cumulative) 12- 3 pm		Instructors

COURSE OBJECTIVES OR EXPECTED LEARNING OUTCOMES The objective of this course is to familiarize undergraduate and graduate students with classification, replication, quantification,

pathogenesis, epidemiology and molecular tools of viruses in general.

ADDITIONAL REQUIREMENTS FOR GRADUATE STUDENTS

Graduate students will be required to present the findings of a research paper as a 15 minute oral presentation in the course. You must submit the paper/topic to Dr. García for approval by 10/19 and the powerpoint presentation must be submitted to Dr. Jackwood by 11/18 for review before it can be presented. Graduate students will have additional questions on the work sheets and exams that will require more in depth understanding of the material.

GRADING SYSTEM:

Grade Scale: A 100-93, A- 92-90, B+ 89-87, B 86-83, B- 82-80, C+ 79-77, C 76-73, C- 72-70, D+ 69-67, D 66-63, D- 62-60, F <60. Note: grades ending in >.5 round up to the next whole number, e.g. 92.6 rounds to 93, but 92.5 counts as 92.

Undergraduates	3 exams + Final exam = 80%
	3 work sheets = 15%
	Class participation = 5%
Graduates	3 exams + Final = 70%
	3 work sheets = 15%
	1 presentation = 10%
	Class participation = 5%

If you miss an exam (unexcused), that is scored as a zero. Make-up exams for excused absences must be arranged with the professor giving the exam (see syllabus) well in advance for University-approved absences or the day of return from an illness (Doctor's excuse is required for **full period of absence**). Exams may have a mix of short answer, discussion, multiple choice, and fill-in tables. You must use a pen to take the exams or you cannot request a re-grade. *Re-grading must be requested in writing with an explanation of the reason that re-grading is needed within 7 days after the exam is returned to the class.*

READING ASSIGNMENTS: Reading assignments from the required text book, **Virology: Molecular Biology and Pathogenesis, L. C. Norkin. ASM Press**, are listed on the syllabus. The assigned research articles will be posted on the e-Learning Commons site for the course.

There are no designated office hours for the Instructors; you may set up appointments with the Faculty by e-mail (Please do not just drop by our offices!):

Dr. Garcia mcgarcia@uga.edu

Dr. Jackwood mjackwoo@uga.edu

Dr. He bhe@uga.edu

Powerpoint slides for each lecture will be posted to the e-Learning Commons (<http://elc.uga.edu/>).

Note that there is significant material covered in lectures that is NOT in the textbook or the posted ppt. Therefore it is essential that you attend lectures and take notes to fully understand the material for this course. Remember, participation in class is 5% of your grade.

All academic work must meet the standards contained in "A Culture of Honesty." Students are responsible for informing themselves about those standards before performing any academic work.

http://www.uga.edu/ovpi/academic_honesty/academic_honesty.htm

The course syllabus is a general plan for the course; deviations announced to the class by the instructor may be necessary.