LECTURE SCHEDULE - VERSION #3. MAKE SURE TO USE THE LATEST VERSION OF THIS SCHEDULE

Important Note 1. We strongly recommend the following as soon as possible: a) View the Voicethread (Vt) called *The Road to Success,* b) Post your picture and a comment in the final Vt slide, c) Review the Blackboard (BB), Syllabus, Rubric and Zoom videoconferencing (useful for office hours consultations, course reviews and collaboration) d) Go to *Before You Start* on your BB and follow the instructions, e) For extra points, screen capture and submit before 2/9 (the last day to drop for 50% refund) any photo on Zoom that includes you, as evidence of your successful access to the Zoom videoconference room, and of your ability to do screen capture. e) Use the workflow charts only to guide your preparation, f) Read chapter 1 from the textbook.

Important Note 2. All homework assignments are due by exactly 11:59 AM one week after the date they were assigned (For example, HW assigned on Tuesday 2/4 is due on Tuesday 2/11 at 11:59 AM). Submit homework electronically on the Blackboard (BB). You may revise and resubmit before 11:59 AM on the due date. Late submission (up to 24h) will be allowed with 50% points deducted. After that, the submission link on the BB will be closed. The content of questions may vary slightly from one student to another and assigned randomly.

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Date	Lesson #		Торіс
1/28	1	Q1	From Mendel to Church: The Evolution and Impact of Genomics
2/4	2	HW1	Classical Genetics (Chs 3, 4): Pedigrees and Probability (Chs 3, 15)
2/11	3	Q2	DNA Structure (Chs 5, 6) and Replication (Ch 7), PCR (Ch 18, Ch 21.p345). Central Dogma; Tutorial : NCBI Nucleotide.
2/18	4	HW2	Gene Expression I: Transcription and Its Regulation (Chs 9,11). Translation (Ch 10). Tutorial : PDB
2/25	5	Q3	Gene Expression II: Epigenetics (Ch 4.p70, Ch 11).
3/3	Review 1		There will be 2 Online Zoom Review 1:10 OR 7:00 PM. Participation is recommended but not required. You need a computer with a working camera to attend. Please use ear buds, especially if you are joining from a public space.
3/10	Exam 1		Time and Location TBD. PCs Provided
3/17	6	HW 3	Next Generation Sequencing (NGS); Expression Analysis by RNA sequencing; Single Nucleotide Polymorphisms (SNPs) and Genome Wide Association Studies (GWAS). (Ch 12) Tutorial: Ensembl Genomics and Human Disease (Parkinson's) Familial Genetics,
3/24	7	Q4	Chromosomal abnomalities, Cancer, Precision Medicine (Chs. 13, 16), Tutorial: OMIM
3/31			CUNY Recalibration Period
4/7			Wed Schedule
4/14	8	HW 4	Genethics (Ch 20); Eugenics, Forensics, Phenotyping, Gene Editing- Ch. 20
4/21	9	Q5	Metagenomics and Microbiome
4/28	10	HW 5	Origin of Life, Human Origin And Migrations, Tutorial: BLAST
5/5	11	Q6	Phylogeny, Evolution and Extinctions. Tutorial : Clustal Omega, Tree Dyn
5/12	Review 2		There will be 2 Online Zoom Review 1:10 OR 7:00 PM. Participation is recommended but not required. You need a computer with a working camera to attend. Please use ear buds, especially if you are joining from a public space.
5/19	Exam 2		Time and Location TBD. PCs Provided