

Tentative schedule of lectures and labs

Lectures: Tu/Th 4:00-5:15pm, Bishop Hall, Room 209, Auditorium

Labs: Mondays

Date	Lecture	Lab (Mondays)
Jan. 23	Introduction, Survey, Meiosis, Theory of inheritance	No Lab
Jan. 25	Meiosis, Mendel, Independent assortment	
Jan. 30	Genes on DNA, Chi-squared, Pedigrees	Fly lab week 1
Feb. 1	Modifications: X-linked, Dominance, imprinting	
Feb. 6	Modifications II: Mitochondria, Maternal, Penetrance, expressivity	Fly lab week 2
Feb. 8	Location of genes: Linkage	
Feb. 13	Location of genes: Linkage, Recombination	Fly lab week 3
Feb. 15	Complementation, epistasis, QTLs	
Feb. 20	Complementation, epistasis, QTLs	Review for midterm
Feb. 22	Midterm	
Feb. 27	Genetic code and mutations	Pop. Lab
Mar. 1	Mutations: how they're made, types	
Mar. 6	Evolutionary genetics-Special expert lecture (J.P. Lawrence)	Pick a Bug week 1
Mar. 8	Population genetics- Special expert lecture (Chaz Hyseni)	
Mar. 13	Spring Break	
Mar. 15	Spring Break	
Mar. 20	Genome I: Mapping, polymorphisms	Pick a Bug week 2
Mar. 22	Genome II: Dogma, Sequencing, GWAS	
Mar. 27	Methodology: Reverse Genetics	Pick a Bug week 3
Mar. 29	Methodology: Reverse Genetics	
Apr. 3	Methodology: Forward Genetics	GMO week 1
Apr. 5	Methodology: Forward Genetics	
Apr. 10	Mid-term	Review for midterm
Apr. 12	Genome: Non-coding regions	
Apr. 17	Genome: Non-coding regions	GMO week 2
Apr. 19	Case-studies: Cancer	
Apr. 24	Case-studies: Developmental Biology	Article Critique (Presentations)
Apr. 26	Case-studies: Aging	
May 1	Case-studies: TBD	Review for final
May 3	Case-studies: TBD	
Final- May 9, 4pm		