Genome Evolution
01:447:352

This course may be used to fulfill the elective requirements of the Biological Sciences major.

Offered: Spring
Credits: 3
Prerequisites: 01:447:380 OR 01:447:384
Course Description: This course will survey the major features of Eukaryotic genome architecture such as sex chromosomes, organelle genomes, introns and untranslated regions from the viewpoint of population genetics theory. Some knowledge of population genetics (e.g. Genetics 486 Evolutionary Genetics) would be useful but not required.

Course URL: https://sakai.rutgers.edu (login with your Rutgers NetID)

Course satisfies Departmental Learning Goals: Students should know the basic architecture of Eukaryotic genomes, such as autosomes, sex chromosomes and organelle genomes. In addition they should know the basic organization of genes, such as introns, regulatory regions, untranslated regions, codon usage, and how these features evolve over time.

Departmental Goals: Students should use genetic information and ideas to critically analyze published research articles in genetics.

Exams, Assignments, and Grading Policy: Grading:

30% Midterm 1
30% Midterm 2
40% Final exam
Course Materials
The Origins of Genome Architecture, Michael Lynch

Course Closed?
If this course is closed please contact the Division of Life Sciences Office of Undergraduate Instruction to be placed on the waiting list. The office is located in room B112 of Nelson Biological Laboratories, Busch Campus (732-445-2075).

Faculty
Prof. Kevin Chen
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** All information is subject to change at the discretion of the course coordinator.