

Medical Genetics Residency Program Course Descriptions

OPTIONAL COURSES

Genetic Analysis of Biological Systems - Course Number: 127:150

Course Description

This course is targeted toward, but not limited to, the first-year graduate students in the Genetics PhD Program. Lectures will stress research questions that are studied with each system, and technical approaches used in each system. A total of one to four lectures will be given for each of the organisms listed above. Two lectures will be given by faculty in the Genetics PhD Program who are experts in each system. Reference material will be drawn from primary literature sources. All software necessary for completion of the assignments is available on the computers in the university ITC's or can be downloaded from the internet.

Medical Genetics - Course Number: 70:110:001 (grads):006 (med students)

Course Description

The course faculty will make every effort to give you the foundations of medical genetics that are relevant for medical practice today. The course is comprised of 23 lectures, 4 small group sessions and two exams. The course includes an overview of chromosomal disorders, principles of Mendelian inheritance, mechanisms that produce genetic disorders, non-traditional inheritance, prenatal genetics, genetic counseling, population screening, population genetics, biochemical genetics, principles of multifactorial disorders. The series of small group sessions will focus on case studies that illustrate basic principles discussed in the lectures, as well as social and ethical issues.