

GENE 500: Introduction to Medical Genetics

The objective of this two-semester course is to provide an introduction to clinical and human genetics for Fellows and genetic counseling students who are preparing for subspecialty examinations of the American Board of Medical Genetics and for others who wish to learn about the expanding role of genetics in medicine. The first semester will introduce basic concepts of genetics, cytogenetics, and molecular genetics. The second semester will include presentations on clinical topics emphasizing the diagnosis and management of patients with genetic disorders. This course is designed for Fellows and genetic counseling students who are preparing for subspecialty examinations of the American Board of Medical Genetics and others who wish to learn about the expanding role of genetics in medicine.

This is the first part of a two-part course. Registration is required separately for each part of the course.

Learning Objectives

- Fall:
 - Appreciate organization of the human genome and tools used to investigate it
 - Acquire skills to determine the most likely mode of inheritance of a trait, to interpret the results of linkage and association studies
- Spring:
 - Appreciate the impact genetic disorders have on the various organ systems
 - Acquire skills to develop a differential diagnosis and appropriate work-up for a given phenotype

Credits: 1

Class Type: Graduate Course

Prerequisites:

Graduate-level training or experience in the biomedical sciences or consent of the course instructor.

Program: Biology, Genetics, and Medicine

Availability Spring 2022

Session Session A