MEDICAL GENETICS (MD GENET)

MD GENET/GENETICS/ZOOLOGY 562 — HUMAN CYTOGENETICS
2 credits.

Fundamental principles of cytogenetics and special problems of human cytogenetics for biology and medical students. Enroll Info: None
Requisites: GENETICS 466, 468, BIOCORE 587, or declared in Master of Genetic Counselor Studies program
Course Designation: Breadth - Biological Sci. Counts toward the Natural Sci req
Level: Intermediate
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Spring 2018

MD GENET/GENETICS 565 — HUMAN GENETICS
3 credits.

Principles, problems, and methods of human genetics. Surveys aspects of medical genetics, biochemical genetics, molecular genetics, cytogenetics, quantitative genetics, and variation as applied to humans. Enroll Info: None
Requisites: Graduate standing, GENETICS 466, 468, or BIOCORE 587
Course Designation: Breadth - Biological Sci. Counts toward the Natural Sci req
Level: Intermediate
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Fall 2017

MD GENET/BIOCHEM/GENETICS 620 — EUKARYOTIC MOLECULAR BIOLOGY
3 credits.

This course focuses on the basic molecular mechanisms that regulate DNA, RNA, and protein metabolism in eukaryotic organisms. This course is intended for advanced undergraduates and first year graduate students with a firm knowledge of basic biochemistry. Enroll Info: None
Requisites: BIOCHEM 501 or 508 or graduate standing
Course Designation: Level - Intermediate
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Spring 2018

MD GENET/GENETICS 677 — ADVANCED TOPICS IN GENETICS
1-3 credits.

Contents vary; consideration of subjects not included in the curriculum. Enroll Info: None
Requisites: Graduate standing or GENETICS 466, GENETICS 468 or BIOCORE 383
Course Designation: Breadth - Biological Sci. Counts toward the Natural Sci req
Level: Advanced
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: Yes, unlimited number of completions
Last Taught: Spring 2018

MD GENET 699 — INDEPENDENT READING
1-3 credits.

Enroll Info: Cons inst & Sr st
Requisites: Consent of instructor
Course Designation: Level - Advanced
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Repeatable for Credit: Yes, unlimited number of completions
Last Taught: Spring 2017

MD GENET/GENETICS 707 — GENETICS OF DEVELOPMENT
3 credits.

A research-level analysis of the current status of the investigation of processes controlling differential gene activity and cellular behavior. The major emphasis is genetic. In successive years, the focus moves from the gene to the cell to the organism. Enroll Info: None
Requisites: Declared in Genetics graduate program
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: Yes, unlimited number of completions
Last Taught: Spring 2017

MD GENET/GENETICS 708 — METHODS AND LOGIC IN GENETIC ANALYSIS
3 credits.

Contemporary issues in genetic, developmental, cell, and molecular biology are addressed in a discussion format. Invited speakers give research lectures and reading material is taken from the primary literature. The discussion focuses on evaluating genetic approaches to biological problems. Enroll Info: None
Requisites: Declared in Genetics graduate program
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Spring 2018
Public health genomics uses knowledge gained from genetic and molecular research along with a consideration of ethical, legal, and social implications (ELSI) to prevent disease and improve the health of the population. Students enrolled in this course will be provided an introduction to public health genomics through a review of fundamental principles of genetics, followed by lectures and discussions on the use of genetic information in clinical and research settings and its implications for disease management and prevention. Students will also gain an awareness of policies that guide public health and will be able to discuss current ethical, legal, and social implications of these policies. These learning objectives will be met through readings and videos, lectures, and discussions of recent journal articles and current topics in public health genomics.

Enroll Info: None

Requisites: Graduate/professional standing

Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement

Repeatable for Credit: No

Last Taught: Spring 2018

MD GENET 990 — RESEARCH

1-12 credits.

Enroll Info: None

Requisites: Consent of instructor

Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement

Repeatable for Credit: Yes, unlimited number of completions

MD GENET 993 — SEMINAR IN GENETICS

1 credit.

Sections deal with various aspects of genetics: Drosophila, maize, immunogenetics, developmental genetics, or other special topics. Students may enroll in two or more sections if they wish. Enroll Info: None

Requisites: Graduate/professional standing

Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement

Repeatable for Credit: Yes, unlimited number of completions

MD GENET 999 — INDEPENDENT WORK

1-3 credits.

Enroll Info: None

Requisites: Consent of instructor

Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement

Repeatable for Credit: Yes, unlimited number of completions

Last Taught: Fall 2010