



**HUMAN GENETICS AND MODERN SOCIETY – BILD 20  
SPRING 2023**

LECTURE: TUESDAY/ THURSDAY: 12:30 – 1:50

SECTIONS: 1 HOUR /WEEK

MIDTERM EXAM: 25 MAY 2023

FINAL ASSESSMENTS: 12 JUNE 2023

PROFESSOR LORRAINE PILLUS (through Canvas or [lpillus@ucsd.edu](mailto:lpillus@ucsd.edu))

Office hours: after lecture on Thursday Tata 3102 and by appointment

**Section Leaders and OH**

Mon 10 Center 203

Mon 11 Center 203

Wed 4 HSS1128A

Wed 5 HSS1128A

**Leanne Dugan** (OH Tues 5pm Zoom)

**Justin Chi** (OH Thur 6pm Zoom)

**Sam Ivezich** (OH Wed 6pm Zoom)

**Course Description:** BILD 20 will introduce students to fundamentals of human genetics, principles of inheritance and applications of genetics and genomics as forensic genetics, genetic screening, and genetic engineering. Social impacts and ethical implications of these applications will be discussed. We will discuss the principles of human genetics in the context of both the *concepts* they reveal and the *experiments* that allowed the articulation of these concepts. Because human genetics is a dynamic, living science, we will also consider unanswered questions, important areas of current research, and future directions and applications.

**Learning Objectives:**

- Understand the nature of genetic variation and its contributions to phenotypic variation in health, development and disease.
- Learn about study designs and their applications to evaluate the role of genes versus the environment in phenotypic variation.
- Learn about the development of hypotheses and how to test them.
- Use online resources to investigate genetic variants and their contributions to phenotypes and disorders.
- Develop skills to read, critically evaluate and discuss reports on genetics in the media.

**Welcome! We look forward to working with you this quarter!**