

Human Genetics

“Plan of the Week”

Week #1 (Semester 1, Quarter 1)

Continue to check your progress at Wardisiani.com, PowerSchool and Schoology

Monday:

- Introduction(s)
- Human Genetics Course Guide
- Class Web-Site and Resources
- Overall Course Goals and Objectives

Tuesday:

- Bell-Ringer
- Lecture: Introduction to Human Genetics
- In-Class Sample Problems
- Journal Entry
- HW: Consult a website for a direct-to-consumer genetic testing company, such as 23andme, Navigenics, or deCODE Genetics. Choose three tests, and explain why you would want to take them. Also discuss a genetic test that would not wish to take, and explain why not.

Wednesday:

- Bell-Ringer
- Lecture: Level of Genetics / Genes and Their Environment
- In-Class Sample Problems
- Journal Entry
- HW: Locate the website for McLaughlin-Roman Centre for Global Health (www.mrcglobal.org). Describe a nation’s plan to embrace genomic medicine.

Thursday:

- Bell-Ringer
- Lecture: Applications of Genetics
- In-Class Sample Problems
- Journal Entry

Friday:

Human Genetics – Common Interim Assessment.

Human Genetics: Week 1 - Learning Outcomes

SWAT:

- Explain what genetics is, and what it is not.
- Distinguish between gene and genome.
- Define Bioethics
- Describe the level of genetics.
- Explain how genetics underlies evolution
- Discuss how genes and environmental factors interact to sculpt traits
- Define genetic determinism
- Provide examples of how genetics is used in the identification of people, in health care, in agriculture, and ecology.

