

HUMAN GENOMICS KEY TERMS/CONCEPTS TO KNOW FOR THE SOCIAL SCIENCE/HUMANITIES SECTION OF THE ASIC200 FINAL EXAM

(March 20, 2020)

To help with your studying, this document provides an itemized list of terms and general concepts that could be presented in the final exam (for Allen's social science and humanities section). You can use the course videos, notes, or your own basic literature searches to get at these concepts and terms.

- The interaction between genetics in general and human genomics in particular and human society. Be prepared to describe at least three ways in which developments in genetic science have or will impact on human systems. (Video Part 1).
- Be prepared to describe the potential (hopes) for human genome sciences as well as the risks (fears). (Video Part 2)
- Be able to identify the positive potential and the risks and concerns around private genome sequencing services like 23 and Me. (Video Part 3)
- Be able to identify the limitations and potential impacts of genetic discoveries related to human evolution, trait variation, and behaviour. (Video Part 4)
- Be able to describe the core issues related to genetic testing in medicine, particularly around reproductive decision making. (Video Part 5)
- Be able to identify the significance of GINA and the current state of Canadian law on genetic privacy. (Video 6)
- Be prepared to comment on the significance of patent law with respect to genetic engineering. (Video 6)
- In what ways has research on human genomics become global?
- What is the promise and the ethical concerns associated with gene-editing the human genome?
- What treaties, declarations, and resolutions exist that at least partially address human genomics?